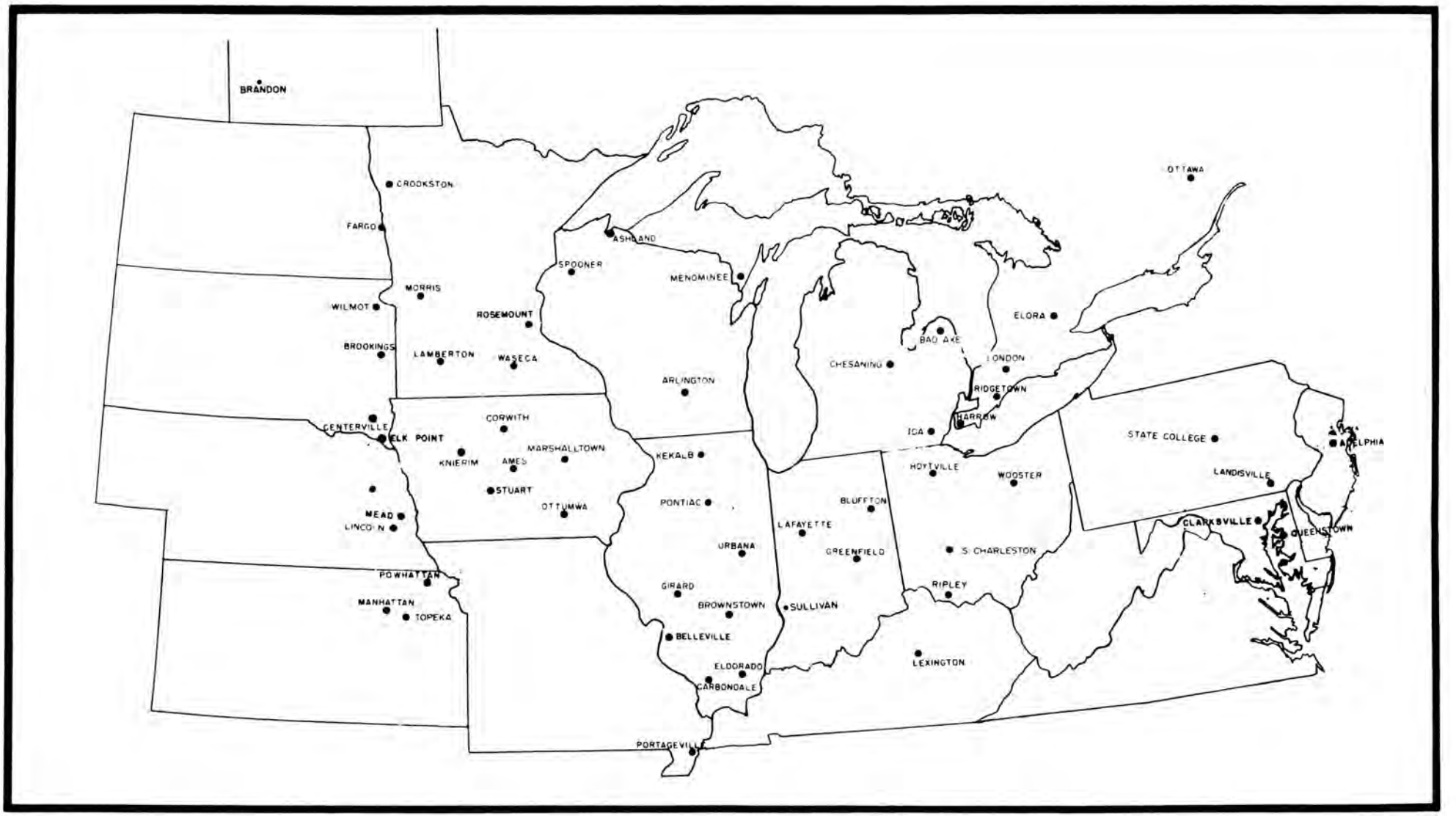

LOCATIONS OF UNIFORM SOYBEAN TESTS, NORTHERN STATES, 1983

THE UNIFORM SOYBEAN TESTS

NORTHERN STATES

1984

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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 5.

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 Statements or data in the report, therefore, should not be published unless permission has been obtained previously by those concerned.

STRAIN DESIGNATION

Experimental (i.e., unreleased) strains are identified by a number with a code letter prefix. The code letters have been agreed upon in meetings of 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 - 1984

Uniform Tests are planted in multiple row plots with three or four replications and the center rows are harvested. Preliminary Tests are multiple row plots (the center rows harvested) with two replications. Usually 15 to 20 feet of row are planted and 12 to 16 feet harvested, to eliminate end-of-row effects. At the Soybean Workers Conference in Memphis, Tennessee on February 24 and 25, 1976, the Northern breeders discussed and made the following recommendation: Only data from bordered row plots will be included in the regional means. Yield means will not be included in regional means if they do not have a CV value. Discretion will be used when including values that have a high CV. If the CV value is high (greater than 15), participants should include the reason, such as disease or environmental conditions. Lines will be allowed to be heterogeneous the first year in the Uniform tests but must be a pure line the second year of testing. It is up to the breeder to clean up heterogeneous lines. If the breeder plans on purifying the line, please so indicate, and the line will be marked so when test participants vote on it for further testing they will know it will be purified.

Generation Composited is the generation after the final single-plant selection in which the line is composited.

Previous Testing. The number of previous years in the same Uniform Test is given, or, in the case of new entries, a reference to last year's test abbreviated UT 0 for Uniform Test 0, PT III for Preliminary Test III, etc.

Yield is measured after the seeds have been dried to a uniform moisture content and is recorded in bushels (60 pounds) per acre (to convert to kilograms/hectare multiply by 67.25).

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

Group	Reference	Range	Early Tie	Late Tie
00	McCall	-7 to +5		Clay (0)
0	Evans	-5 to +3	McCall (00)	Hodgson 78 (I)
I	Hodgson 78	-3 to +5	Evans (0)	Corsoy 79 (II)
II	Elgin	-3 to +5	Hardin (I)	Pella (III)
III	Harper	-4 to +4	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 + 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^1	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 1984

Variety	Experimental Designation	Uniform Test Evaluations
Century 84	HW8185	UT II, 1982-1984
Hack	LN78-1136	UT II, 1982-1984, UP IIB, 1981
Miami	Wells II BC_6	UT II, 1982
Winchester	Williams BC_6	UT III, 1983, 1984
Zane	HW8033	UT III, 1982-1984, UP III B, 1981

Variety	Release Date	Releasing States	Foundation Seed Production
Century 84	Aug. 1, 1984	IL, IN, IA, OH	1984
Hack	Aug. 1, 1984	IL, IN, IA, NE	1984
Miami	Aug. 1, 1984	IN, WI	1983
Winchester	Aug. 1, 1984	IN, NE, OH	1983
Zane	Aug. 1, 1984	IA, KA, KY, MO, NE, OH	1984

UNIFORM TEST LOCATIONS - 1984

Location		Conducted by	Uniform Tests						Preliminary Tests						
			00	0	I	II	III	IV	I	IIA	IIB	IIIA	IIIB	IVA	IVB
IA	Ames	W.R. Fehr				X				X	X				
	Corwith	W.R. Fehr			X				X						
	Manson	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							
	Carbondale	O.Meyers, Jr.						X						X	X
	DeKalb	C.D. Nickell				X									
	Eldorado	R.L. Bernard					X	X							
	Girard	R.L. Bernard					X								
	Pontiac	C.D. Nickell				X	X								
	Urbana	C.D. Nickell				X	X			X	X	X	X		
IN	Greenfield	J.R. Wilcox				X	X	X							
	Lafayette	J.R. Wilcox			X	X	X	X		X	X	X	X		
	Sullivan	J.R. Wilcox					X	X						X	X
KS	Manhattan	W.T.Schapaugh,Jr.					X	X				X	X	X	X
	Topeka	W.T.Schapaugh,Jr.					X	X							
KY	Lexington	T. Pfeiffer & J. Wood					X	X						X	X
MD	Queenstown	W.J. Kenworthy & P.B. Creegan					X	X						X	X
MI	Britton, Lenawee Co	T.G. Isleib			X	X				X	X				
	Ithaca Gratiot Co	T.G. Isleib			X	X			X						
MN	Crookston	J.H. Orf	X												
	Lamberton	J.H. Orf			X	X			X						
	Morris	J.H. Orf	X	X											
	Rosemount	J.H. Orf	X	X											
	Waseca	J.H. Orf			X	X			X						
MO	Portageville (loam)	S. Anand						X							
	Portageville (clay)	S. Anand						X							
	Columbia	D.G. Helsel					X	X							
NE	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	S. St. Martin & B.A. McBlain				X	X			X	X	X	X		
	S. Charleston	R.L. Cooper					X	X				X	X	X	X
	Wooster	S. St. Martin & B.A. McBlain				X	X								
	Ripley	R.L. Cooper					X	X						X	X

UNIFORM TEST LOCATIONS - 1984

Location		Conducted by	Uniform Tests 00	0	I	II	III	IV	Preliminary Tests I	IIA	IIB	IIIA	IIIB	IVA	IVB
Ont.	Eloru	W.D. Beversdorf	X	X											
	Harrow	R.I. Buzzell				X									
	Ottawa	H.D. Voldeng	X	X											
	Ridgetown	G.R. Ablett			X	X									
	Smithfield	S. Miller & H.D. Voldeng		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				
	Wilmont	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)			7	8	13	21	22	18	7	10	10	8	8	7	7
No. with seed composition data (X)			4	5	4	5	5	2	4	5	4	5	5	2	2

1984 Disease, Shattering, and Descriptive Data

Location		Tests Conducted by	Tests	U. T.	P. T.
IA	Ames	J. Dunleavy	BTS	00- IV	-
	Ames	W. R. Fehr	Chlorosis	00-III	I-III
	Ames	W. R. Fehr	Emergence	00- IV	-
	Ames	H. Tachibana	BSR	00- IV	I- IV
	Ames	H. Tachibana	PR_4	00- IV	I- IV
IL	Belleville	R. L. Bernard	Shattering	III	-
IN	Lafayette	K. L. Athow & F. A. Laviolette	PR_1, FE_2	00- IV	I- IV
	Lafayette	T. S. Abney & T. L. Richards	PS, PSB, SMV, Germ	00- IV	I- IV
KS	Manhattan	W. T. Schapaugh, Jr.	Shattering	00- IV	I- IV
OH	Hoytville	B. A. McBlain	PR	II-III	II-III
	Vickery	A. F. Schmitthenner	PR	II- IV	II- IV
MO	Columbia	D. Helsel	Shattering	III-IV	-
TX	Lubbock	R. D. Brigham	Shattering	IV	-

IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
A1	Anoka x Mack
A2	(M402 x M406) x C1453
A72-507	Amsoy x Wayne
A72-512	Amsoy x Wayne
A73-21030	L65-1342 x IVR Ex 4311
A74-102011	M62-263 x IVR Ex 4426
A75-20418	IVR Ex 4731 x Wirth
A75-302003	L15 x AP68-1016
A75-305022	Wye x (Amsoy x Wayne)
A76-103002	AP6
A76-202015	AP6
A76-304005	AP6
A76-304020	(Beeson x AP68-1016 x (L15 x Calland)
A77-211021	Beeson x A72-507
A77-314013	A73-21030 x Williams
A78-122031	SRF 350 x Pride B-216
A78-125029	Pride B-216 x AX900-4-3
A78-326017	AX900-4-3 x C1520
Agripro AP200	Amsoy Phyt selection 255 x Swift
AP6	40 lines intermated
AP68-1016	Clark[5] x PI 84946-2
AP68-1022	Clark[5] x PI 84946-2
Asgrow A3127	Williams x Essex
Asgrow A3585	L66L-140 x Cutler
AX900-4-3	CX407 BC_7-326 x AP68-1022
AX901-40-2	Beeson x AP68-1022
C1069	Lincoln x Ogden
C1253	Blackhawk x Harosoy
C1266R	Harosoy x C1069
C1426	C1253 x Kent
C1453	C1266R x C1253
C1520	Bonus x Cutler
CX407 BC_7	Amsoy x C1253
CX530-122	Williams x Bonus
CX744-12-2	Hodgson x Tracy
D49-2573	Roanoke x N45-745

IDENTIFICATION OF PARENT STRAINS (Cont.)

Strain	Parentage
D54-2437	N48-1394 x L46-5679
FR SI IV	Amsoy 71 x Chippewa 64
HC74-678	Amsoy 71 x Ransom
HC74-3400	Williams x Ransom
HW79149	(A72-507^6 x A1) x (A72-507^5 x PI 82263-2)
IVR 1120	Provar x (Amsoy x PI 191110-1)
IVR Ex 4311	Hark x Wayne
JA42	Kogane-Jiro
JA45	PI 196163
K9	Tracy x Williams
K74-104-75-85	Tracy x Williams
K74-115-75-000	Tracy x Bonus
K74-115-75-376	Tracy x Columbus
K74-115-75-405	Tracy x Columbus
K1028	Williams x Calland
K1029	Adelphia x Cutler
K1030	Williams x Calland
K1034	Williams x Calland
KA555	Evans x M57-69
L6	L8 x L7; Clark isoline with $\underline{Rps_1}$ and $\underline{rxp}$
L7	Clark^8 x Blackhawk; Clark isoline with $\underline{Rps_1}$
L8	Clark^6 x L49-4091; Clark isoline with $\underline{rxp}$
L11	$\underline{I}$ $\underline{r}$ from (Clark^6 x T201) x (Clark^6 x T145); Clark isoline with $\underline{I}$ $\underline{r}$
L12	L6 x L11; Clark isoline with $\underline{I}$ $\underline{r}$ $\underline{Rps_1}$ $\underline{rxp}$
L15	Wayne^6 x Clark 63; Wayne isoline with $\underline{Rps_1}$
L46-5679	Lincoln x Richland
L49-4091	(Lincoln^2 x Richland) x (Lincoln x CNS)
L57-0034	Clark x Adams
L62-1926	Clark^6 x PI 86.024; Clark isoline with $\underline{e_2}$
L65-1342	Wayne^2 x L62-1926
L66-531	(Clark^6 x PI 86.024) x (Clark^6 x T175)
L66L-137	Wayne x L57-0034
L66L-140	Wayne x L57-0034
L69U37-17-5	Calland x Corsoy
L69U40-16-4	Calland x Amsoy
L70-2283	Chippewa x Custer

IDENTIFICATION OF PARENT STRAINS (Cont.)

Strain	Parentage
L70-6494	Harosoy^5 x D54-2437
L70T-543G	L15 x Amsoy 71
L71L-436	L12 x Custer
L72-25-9	L66-531 (Clark $\underline{dt_1}$ $\underline{E_1}$ $\underline{e_2}$) x Miller 6_7
L72U-2567	Williams x Ransom
L73-6536	L12 x Custer
L73-6626	R62-659 x L66-531
L73U-632	Miller 6_7 x L66L-140
L74D-2	L62-535 (Harosoy $\underline{dt_1}$) x SRF 300
L74D-4	L62-535 (Harosoy $\underline{dt_1}$) x SRF 300
L74D 200	Miller 6_7 x L66L-140
L74D-619	Williams x Ransom
L75-8064	Williams x L70-2283
L75U-495	L72-25-9 x Dare
Land O'Lakes Max	[Wayne x (Clark x Adams)] x Cutler
M10	Lincoln^2 x Richland
M53-117	M10 x PI 180501
M54-12	Capital x Renville
M54-139	Renville x Capital
M54-240	(Lincoln^2 x Richland) x Korean
M55-19	Pagoda 17 x Hardome
M57-69	M10 x PI 180501
M59-120	M54-240 x M54-139
M60-406	Blackhawk x Harosoy
M61-65	Merit x M55-19
M62-263	Grant x M319W
M63-2174	Corsoy x M53-117
M64-3	Traverse x JA45
M65-69	M54-12 x Corsoy
M65-227	057-2921 x JA42
M66-18	Clay x Altona
M68-49-26	Evans x M54-120
M68-126	M61-65 x M54-120
M68-256	Evans x Steele
M69-42	M63-158 (Bf) x Provar
M69-247	M60-406 x Wayne

IDENTIFICATION OF PARENT STRAINS (Cont.)

Strain	Parentage
M70-135	Evans x Hodgson
M70-163	M59-120 x Hodgson
M70-187	Merit x SS65-5702
M70-271	Merit x M64-3
M70-504	M63-87 x PI 189880
M70-597	Steele x AP68-1016
M71-77	Merit x M62-263
M71-135	Evans x M62-263
M319W	Lincoln x Hawkeye
M404	Renville x Capital
M406	Harosoy x Norchief
Merschman Washington V	Unknown
N45-745	Ogden x CNS
N48-1394	Roanoke x N45-745
NAPB Ex 4380	C1426 x Marshall
NAPB HP20-20	Clay x Williams
NK S1492	Corosoy x Wayne
Peterson PX20	Peterson Seed Company
Pride B-216	Corosoy x Wayne
R62-659	(R54-168 x Hill) x (Lee x Dortchsoy 110)
R54-168	D49-2573 x N45-1497
SL11	[L15 x ($Wayne^4$ x L11) x ($Wayne^{10}$ x Kanrich)]; Wayne isoline with r Rpm Rps_1
SL12	[($Wayne^6$ x Clark 63) x ($Wayne^4$ x L11)] x (Wayne x Kanrich); Wayne isoline with I r Rpm Rps_1
SRF 350	Unknown
SRF 400	Unknown
SS65-5702	Clark x ($Scott^2$ x Peking)
Schechinger S48	IVR 1120 x SL12
Tri-Valley Charger	IVR 1120 x Calland
V68-1034	York x PI 71506
057-2921	Blackhawk x Capital
554-3	$Hodgson^4$ x Merit
554-10	$Hodgson^4$ x Merit
840-70-3	From Sven A. Holmberg, Sweden

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	Strain	Parentage	Previous Testing*	Generation Composited
1.	Chico	[Evans x (Merit x Lee)] x [(M65-69) x (M65-227)]	-	F_5
2.	Clay (O)	Capital x Renville	7	F_5
3.	Maple Amber	840-70-3 x (Harosoy 63 x Altona)	4	F_5
4.	McCall (00)	(Acme x Chippewa) x Hark	11	F_6
5.	OAC-81-2	Harosoy 63 x Fiskeby V	1	F_5
6.	OT80-12Y	Fiskeby III x Evans	1	F_7

*Number of years in test or name of 1983 test.

Descriptive and Disease Data

	Strain	Descriptive Code	Chlorosis Score	Emergence Score	Shattering Score	BSR Ames Plant N %	BSR Ames Stem N %
			Ames	Ames	Manhattan		
1.	Chicao	WGBrSYBf I	3.7	2	1.0	90	41.0
2.	Clay (O)	PGBrSYY I	3.8	2	1.0	100	58.4
3.	Maple Amber	PTBrIYBr I	4.3	1	2.0	70	22.5
4.	McCall (00)	PGBrDYY I	2.8	1	1.0	80	36.0
5.	OAC-81-2	PTBrIYBr I	4.5	1	4.0	70	22.0
6.	OT80-12Y	PTBrSYY I	2.3	1	-	-	--

Disease Data

	Strain	BTS Ames a Score	FE Lafayette Race 2 Score	PR Ames Race 4 Reaction	PR Lafayette Race 1 Reaction	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a Score	Germ Lafayette %
1.	Chico	3	-	S	R	20	30	2E	32
2.	Clay (O)	4	-	S	S	55	27	4E	23
3.	Maple Amber	2	-	R	R	8	32	4E	25
4.	McCall (00)	4	-	S	S	45	32	1	40
5.	OAC-81-2	2	-	S	R	38	39	4E	42
6.	OT80-12Y	2	-	S	S	31	35	5E	37

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Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of tests	7	7	7	7	7	7	7	4	4
	bu/a	No.	Date	Score	In	Score	g/100	%	%
1. Chico	33.7	4	+5.4	1.6	28	2.0	12.6	40.3	20.9
2. Clay (0)	40.1	1	+5.6	1.7	24	1.9	16.0	40.1	21.7
3. Maple Amber	32.0	5	-2.7	1.5	25	2.2	16.5	39.8	23.1
4. McCall (00)	38.9	2	9-9.3*	1.5	26	1.9	14.9	38.6	21.4
5. OAC-81-2	37.4	3	+5.7	2.3	29	2.2	20.2	40.8	21.0
6. OT80-12Y	31.2	6	-5.0	1.1	21	1.7	15.0	38.9	21.3

*114 days after planting

1983-1984 2-Year Mean

No. of tests	15	15	15	15	15	14	15	9	9
Clay (0)	35.5	2	+4.4	1.6	24	2.1	16.4	40.9	21.4
Maple Amber	29.1	5	-4.0	1.4	24	2.2	16.6	40.8	22.3
McCall (00)	35.6	1	9-10.7*	1.4	25	2.1	15.1	39.7	21.0
OAC-81-2	34.7	3	+5.5	1.9	29	2.2	20.0	41.7	21.1
OT80-12Y	29.4	4	-6.8	1.2	21	2.0	15.3	40.1	21.2

*113 days after planting

1980-1984 5-Year Mean

No. of tests	37	37	36	37	37	36	37	25	25
Clay (0)	36.7	2	+4.6	1.9	27	2.1	16.1	40.9	19.7
Maple Amber	32.2	3	-4.9	1.5	27	2.0	16.2	40.9	20.5
McCall (00)	37.4	1	9-11.8*	1.7	28	1.9	14.9	39.7	19.2

*112 days after planting

UNIFORM TEST 00, 1984

YIELD (bu/a)

	Strain	Mean of 7 Tests	Crookston, MN	Morris, MN	Rosemount, MN	Fargo, ND	Elora, Ont	Ottawa, Ont	Ashland, WI
1.	Chico	33.7	33.9	42.3	48.3	26.4	16.9	48.5	19.7
2.	Clay (0)	40.1	36.7	40.5	48.6	26.5	18.7	48.6	31.4
3.	Maple amber	32.0	33.8	34.2	44.7	27.9	16.5	44.0	22.9
4.	McCall (00)	38.9	39.5	45.0	49.9	30.7	18.7	49.5	29.2
5.	OAC-81-2	37.4	38.9	41.5	51.4	24.2	28.2	42.3	35.5
6.	OT80-12Y	31.2	34.9	27.5	46.0	26.6	15.5	42.0	26.1
C.V. (%)			5.4	19.0	10.9	6.7	14.2	7.0	17.6
L.S.D. (5%)			3.6	13.3	9.6	3.4	4.1	4.4	8.4
Row sp. (in.)			12	10	10	18	14	16	24
Rows/plot			8	10	10	4	4	4	4
Reps			3	3	3	3	4	4	3

YIELD RANK

1.	Chico	4	5	2	4	5	4	3	6
2.	Clay (0)	1	3	4	3	4	3	2	2
3.	Maple Amber	5	6	5	6	2	5	4	5
4.	McCall (00)	2	1	1	2	1	2	1	3
5.	OAC-81-2	3	2	3	1	6	1	5	1
6.	OT80-12Y	6	4	6	5	3	6	6	4

MATURITY (date)

1.	Chico	+5.4	+3	+4	+4	+3	+10	+2	+12
2.	Clay (0)	+5.6	+3	+8	+3	+11	+8	+1	+5
3.	Maple Amber	-2.7	-4	-2	-4	-1	-3	-5	0
4.	McCall (00)	9-9.3	9-14	9-2	9-4	8-29	9-9	9-26	9-12
5.	OAC-81-2	+5.7	+6	+11	+5	+3	+5	+3	+7
6.	OT80-12Y	-50	-9	-2	-4	-2	-6	-7	-5
Date planted		5-19	5-16	5-11	5-16	5-15	5-22	6-2	5-18
Days to mature		114	121	114	111	107	110	116	117

LODGING (score)

1.	Chico	1.6	1.3	1.7	3.7	1.0	1.0	1.5	1.0
2.	Clay (0)	1.7	1.7	2.3	3.3	1.0	1.0	1.6	1.0
3.	Maple Amber	1.5	1.7	1.0	3.0	1.0	1.0	1.3	1.3
4.	McCall (00)	1.5	2.0	1.3	3.0	1.0	1.0	1.4	1.0
5.	OAC-81-2	2.3	2.3	2.0	4.3	1.0	1.0	3.5	1.7
6.	OT80-12Y	1.1	1.0	1.0	2.0	1.0	1.0	1.0	1.0

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PLANT HEIGHT (inches)

	Strain	Mean of 7 Tests	Crookston, MN	Morris, MN	Rosemount, MN	Fargo, ND	Elora, Ont	Ottawa, Ont	Ashland, WI
1.	Chico	28	33	21	39	22	22	31	25
2.	Clay (0)	24	28	24	30	22	20	28	18
3.	Maple Amber	25	27	21	31	21	24	30	22
4.	McCall (00)	26	34	24	35	20	22	30	20
5.	OAC-81-2	29	36	26	37	25	26	31	22
6.	OT80-12Y	21	24	17	28	18	20	25	17

SEED QUALITY (score)

1.	Chico	2.0	1.7	1.0	2.3	3.0	2.0	1.5	2.8
2.	Clay (0)	1.9	1.3	1.3	2.3	3.0	2.0	1.2	2.0
3.	Maple Amber	2.2	1.7	1.7	2.7	3.0	2.5	1.0	2.7
4.	McCall (00)	1.9	1.7	1.7	2.3	2.0	2.5	1.0	1.8
5.	OAC-81-2	2.2	2.0	1.7	2.7	4.0	2.0	1.0	2.3
6.	OT80-12Y	1.7	1.3	1.3	2.3	1.0	2.5	1.2	2.5

SEED SIZE (g/100)

1.	Chico	12.6	10.0	12.2	12.1	10.3	10.7	14.9	18.0
2.	Clay (0)	16.0	14.7	15.4	17.4	14.1	14.2	18.1	18.2
3.	Maple Amber	16.5	13.9	15.4	16.0	14.4	15.7	20.4	19.8
4.	McCall (00)	14.9	12.6	14.1	15.8	13.0	13.7	17.3	17.5
5.	OAC-81-2	20.2	18.7	17.3	21.3	18.3	18.7	23.6	23.6
6.	OT80-12Y	15.0	12.5	15.6	16.4	12.4	13.5	17.7	17.0

		PROTEIN (%)					OIL (%)				
	Strain	Mean of 4 Tests	Crookston, MN	Rosemount, MN	Fargo, ND	Arlington, WI	Mean	Crookston, MN	Rosemount, MN	Fargo, ND	Arlington, WI
1.	Chico	40.3	37.0	39.4	39.5	45.1	20.9	22.4	21.8	20.8	18.4
2.	Clay (0)	40.1	39.0	39.3	39.0	42.9	21.7	21.9	22.6	23.2	19.1
3.	Maple Amber	39.8	37.5	39.9	39.1	42.6	23.1	24.7	23.7	23.4	20.6
4.	McCall (00)	38.6	37.1	37.8	38.0	41.3	21.4	22.3	22.0	21.4	19.7
5.	OAC-81-2	40.8	38.9	41.0	40.3	42.9	21.0	21.2	21.6	22.1	18.9
6.	OT80-12Y	38.9	36.4	38.4	39.0	41.6	21.3	22.4	22.1	21.8	18.7

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	Strain	Parentage	Previous Testing*	Generation Composited
1.	Dawson	Evans x M63-217Y	3	F_5
2.	Evans (0)	Merit x Harosoy	14	F_5
3.	Hodgson 78 (I)	$Hodgson^7$ x Merit	7	$BC_6 F_3$
4.	McCall (00)	(Acme x Chippewa) x Hark	4	F_5
5.	Ozzie	Wilkin x M63-217Y	5	F_5
6.	Simpson	Steele x Hodgson	5	F_5
7.	M75-25	Evans x M66-18	2	F_5
8.	M76-50	M68-49-26 x McCall	1	F_5
9.	M76-149	M70-271 x [$Hodgson^6$ x Merit]	1	F_5
10.	M76-314	Evans x M69-42	-	F_5
11.	M76-353	M68-49-26 x FR51 IV	-	F_5
12.	M77-22	M68-49-26 x M68-126	-	F_5
13.	M77-69	M70-135 x A74-102011	-	F_5
14.	M77-156	M70-187 x Corsoy R3	-	F_5
15.	M77-218	M71-135 x Hodgson 78	-	F_5
16.	M77-252	M70-504 x M69-42	-	F_5
17.	OT83-4	Maple Arrow x Harcor	-	F_7

*Number of years in test or name of 1983 test.

Descriptive and Disease Data

Strain	Descriptive Code	Chlorosis Score	Emergence Score	Shattering Score	BSR Ames	
		Ames	Ames	Manhattan	Plant N %	Stem N %
Dawson	PGBrDYY I	3.2	1	1.0	80	21.7
Evans (0)	WGBrDYY I	3.3	1	2.0	90	27.0
Hodgson 78 (I)	PGBrDYBf I	3.2	2	2.0	90	20.6
McCall (00)	PGBrDYY I	2.8	1	1.0	70	22.0
Ozzie	PGB DYY I	2.7	2	1.0	40	4.5
Simpson	PGBrDYBf I	2.8	1	1.0	40	7.0
M75-25	PGBrSYY I	2.8	1	1.0	60	19.4
M76-50	WGT DYY I	2.5	3	2.0	100	53.3
M76-149	WGBrDYBf I	2.2	1	-	60	16.7
M76-314	P+WGBrDYY I	3.3	5	1.0	60	15.8
M76-353	PGBrSYY I	3.3	1	3.0	90	34.0
M77-22	WGBrDYY I	2.3	1	2.0	50	22.6
M77-69	WGBrDYY I	3.2	1	1.0	20	5.7
M77-156	PGBrDYY I	3.2	1	1.0	20	1.9
M77-218	WGBrIYY I	3.8	1	2.0	40	9.7
M77-252	PGBrIYBf I	4.2	1	-	80	25.6
OT83-4	PGBrSYBf I	3.2	2	2.0	60	24.4

Disease Data

Strain	BTS Ames a Score	FE Lafayette Race 2 Score	PR Ames Race 4 Reaction	PR Lafayette Race 1 Reaction	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a Score	GERM Lafayette %
Dawson	3	-	S	R	40	8	2E	50
Evans (0)	3	-	S	R	47	30	4E	48
Hodgson 78 (I)	4	4	S	R	42	12	3E	70
McCall (00)	4	-	S	S	45	32	1	40
Ozzie	3	4	S	R	35	28	3E	55
Simpson	3	5	S	R	35	11	3E	61
M75-25	3	3	R	R	29	21	2E	59
M76-50	4	1	S	R	29	34	3E	32
M76-149	3	4	S	R	10	39	3E	32
M76-314	3	1	S	R	74	13	1	53
M76-353	4	2	I	R	66	18	2E	59
M77-22	3	3	S	R	7	25	1	57
M77-69	3	-	S	R	69	25	2E	32
M77-156	3	4	S	S	83	9	2E	38
M77-218	2	4	S	H	47	7	3E	66
M77-252	4	4	S	S	81	6	5E	64
OT83-4	2	4	R	R	65	8	2E	78

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	8 bu/a	8 No.	8 Date	8 Score	8 In.	8 Score	8 g/100	5 %	5 %
Dawson	39.5	3	0	1.7	28	1.6	15.4	38.5	21.8
Evans (0)	37.6	9	9-20.6*	1.5	28	1.5	16.2	39.3	22.5
Hodgson 78 (I)	42.1	2	+5.9	1.7	33	1.6	16.4	38.9	21.3
McCall (00)	32.9	17	-8.5	1.4	25	1.8	15.2	39.2	20.6
Ozzie	36.5	13	-2.8	1.3	27	1.6	16.2	40.3	21.6
Simpson	38.6	6	+2.9	1.4	28	1.7	15.6	40.0	21.4
M75-25	37.9	8	+4.1	1.4	26	1.6	17.0	39.8	21.4
M76-50	35.9	14	+1.9	1.4	23	1.8	18.6	37.9	23.8
M76-149	38.5	7	+1.3	1.5	31	1.7	14.3	40.3	21.6
M76-314	37.4	11	+5.0	1.4	29	1.7	18.5	39.5	20.8
M76-353	37.6	9	+3.0	1.4	30	1.5	16.9	39.3	22.2
M77-22	39.3	4	+4.1	1.6	28	1.6	17.0	39.8	21.7
M77-69	35.6	15	+0.1	1.5	28	1.8	16.8	37.4	22.5
M77-156	37.3	12	+2.0	1.3	27	1.7	17.3	39.0	21.1
M77-218	38.8	5	+5.0	1.6	33	1.6	17.7	40.0	20.3
M77-252	35.0	16	+1.9	1.8	26	1.5	17.7	43.2	18.9
OT83-4	42.8	1	+0.9	1.6	32	1.4	15.7	39.3	21.4

*122 days after planting

UNIFORM TEST O, 1984

1983-1984 2-Year Mean

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	16 bu/a	16 No.	16 Date	16 Score	16 In.	16 Score	16 g/100	10 %	10 %
Dawson	39.8	2	+1.2	1.7	30	1.7	15.6	39.4	22.0
Evans (O)	37.7	6	9-18.1	1.4	30	1.6	15.8	40.0	22.3
Hodgson 78 (I)	41.0	1	+7.0	1.8	34	1.8	16.4	39.6	21.7
McCall (OO)	32.4	9	-9.2	1.4	26	2.0	14.6	39.8	20.8
Ozzie	37.2	7	-2.3	1.2	29	1.7	16.0	41.2	21.4
Simpson	39.4	3	+3.4	1.4	29	1.7	15.8	40.5	21.4
M75-25	38.7	4	+3.8	1.4	28	1.8	16.6	40.6	21.5
M76-50	36.8	8	0.0	1.3	24	2.0	18.4	38.8	23.7
M76-149	38.5	5	+1.0	1.4	31	1.8	14.4	41.4	21.6

*120 days after planting

1982-1984 3-Year Mean

No. of Tests	24	24	24	24	23	23	24	16	16
Dawson	38.7	1	+0.1	1.8	31	1.9	15.1	39.1	20.5
Evans (O)	37.3	5	9-19.4*	1.6	31	1.7	15.4	39.6	20.9
Hodgson 78 (I)	38.3	2	+7.0	1.9	35	1.9	16.1	39.3	20.1
McCall (OO)	31.6	6	-10.4	1.3	26	2.0	14.2	39.3	19.8
Ozzie	37.4	4	-2.5	1.2	30	1.8	15.6	40.4	20.1
M75-25	38.0	3	+4.2	1.5	29	1.9	16.3	40.2	20.0

*121 days after planting

The strain OT83-4 was the highest yielding entry in this test in 1984 and was resistant to races 1 and 4 of P megasperma f sp. glycinea. None of the Group O entries exceeded the yield of the variety Dawson in the 2-year and 3-year data summaries. The strain M76-353 was more susceptible to shattering than the other entries in the test. The strain M76-50 had the highest oil content of any entry in the test in 1983 and in 1984.

UNIFORM TEST 0, 1984

YIELD (bu/a)

Strain	Mean of 8 Tests	Morris, MN	Rose-Mount, MN	Fargo, ND	Elora, Ont	Ottawa, Ont	Smith-field, Ont	Wilmot, SD	Spooner, WI
Dawson	39.5	49.1	53.2	23.2	29.1	51.6	40.8	41.0	28.0
Evans (0)	37.6	49.8	57.1	24.6	23.4	47.9	40.3	37.5	20.2
Hodgson 78 (I)	42.1	49.9	62.6	23.0	38.6	50.6	41.1	40.8	30.5
McCall (00)	32.9	40.1	48.3	23.8	20.2	47.1	39.5	23.3	20.7
Ozzie	36.5	45.3	58.0	22.0	22.4	50.5	35.4	35.6	22.6
Simpson	38.6	46.6	52.8	22.1	29.0	49.2	42.7	39.9	26.3
M75-25	37.9	45.9	51.2	23.0	22.6	50.1	41.8	41.9	26.5
M76-50	35.9	46.7	47.0	24.2	24.4	49.2	37.5	34.2	24.0
M76-149	38.5	52.5	52.4	21.7	29.3	45.8	42.8	36.6	26.9
M76-314	37.4	46.9	49.9	23.1	26.4	48.6	38.7	39.9	25.3
M76-353	37.6	48.5	52.7	21.3	24.7	46.4	45.4	40.0	21.9
M77-22	39.3	55.8	51.6	22.6	31.4	48.0	39.5	37.8	27.3
M77-69	35.6	46.8	48.7	23.4	23.6	43.9	38.5	34.7	25.4
M77-156	37.3	49.7	49.4	24.6	23.1	45.8	40.0	39.5	26.0
M77-218	38.8	49.4	48.6	23.5	34.4	46.2	45.4	35.3	27.5
M77-252	35.0	48.0	51.5	20.5	27.2	42.3	38.5	28.9	22.9
OT83-4	42.8	50.3	57.7	26.4	33.1	52.7	52.1	46.4	24.0
C.V. (%)		11.4	13.0	8.9	12.5	7.3	14.3	11.3	15.9
L.S.D. (5%)		9.2	11.4	NS	4.8	5.6	9.6	6.9	6.7
Row sp. (in.)		10	10	18	14	16	16	30	36
Rows/plot		10	10	4	4	4	4	4	4
Reps		3	3	3	4	3	3	3	3

YIELD RANK

	8 Tests								
Dawson	3	8	5	8	6	2	8	3	2
Evans (0)	9	5	4	2	13	10	9	10	17
Hodgson 78 (I)	2	4	1	10	1	3	7	4	1
McCall (00)	17	17	16	5	17	11	11	17	16
Ozzie	13	16	2	14	16	4	17	12	14
Simpson	6	14	6	13	7	6	5	6	7
M75-25	8	15	11	10	15	5	6	2	6
M76-50	14	13	17	4	11	6	16	15	11
M76-149	7	2	8	15	5	14	4	11	5
M76-314	11	11	12	9	10	8	13	6	10
M76-353	9	9	7	16	8	12	2	5	15
M77-22	4	1	9	12	4	9	11	9	4
M77-69	15	12	14	7	12	16	14	14	9
M77-156	12	6	13	2	14	14	10	8	8
M77-218	5	7	15	6	2	13	2	13	3
M77-252	16	10	10	17	9	17	14	16	13
OT83-4	1	3	3	1	3	1	1	1	11

UNIFORM TEST 0, 1984

MATURITY (date)

Strain	Mean of 8 Tests	Morris, MN	Rose-mount, MN	Fargo, ND	Elora, Ont	Ottawa, Ont	Smith-field, Ont	Wilmot, SD	Spooner, WI
Dawson	0	+1	-1	+1	+1	-1	-1	+2	-2
Evans (0)	9-20.6	9-16	9-15	9-18	9-23	10-5	9-30	9-14	9-14
Hodgson 78 (I)	+5.9	+6	+4	+5	+7	+9	+6	+8	+2
McCall (00)	-8.5	-10	-9	-20	-13	-9	-5	-4	+2
Ozzie	-2.8	-3	-1	-7	-4	-5	0	-1	-1
Simpson	+2.9	+4	+3	+4	+3	0	+4	+6	-1
M75-25	+4.1	+4	+3	+3	+7	+8	+3	+4	+1
M76-50	+1.9	-2	+1	+3	-1	+2	+8	+3	+1
M76-149	+1.3	+4	+1	+2	+2	0	+8	-7	0
M76-314	+5.0	+4	+4	+3	+2	+7	+10	+4	+6
M76-353	+3.0	+3	+2	+4	+1	+1	+5	+6	+2
M77-22	+4.1	+3	+3	+4	+4	+5	+8	+6	0
M77-69	+0.1	0	-1	+2	-1	-2	+7	-3	-1
M77-156	+2.0	+2	0	+3	+1	+2	+2	+3	+3
M77-218	+5.0	+4	+3	+5	+8	+3	+6	+8	+3
M77-252	+1.9	+2	+1	+3	0	-1	+10	0	0
OT83-4	+0.9	+5	+1	+3	-3	+1	+1	0	-1
Date planted	5-21	5-11	5-16	5-15	5-22	5-27	6-5	5-22	5-18
Days to mature	122	128	122	126	124	131	117	115	119

LODGING (score)

Strain	8 Tests								
Dawson	1.7	2.3	3.7	1.0	1.0	2.2	1.0	1.0	1.0
Evans (0)	1.5	2.3	4.0	1.0	1.0	1.0	1.0	1.0	1.0
Hodgson 78 (I)	1.7	2.0	3.7	1.0	1.0	2.5	1.0	1.0	1.0
McCall (00)	1.4	1.7	3.3	1.0	1.0	1.1	1.0	1.0	1.0
Ozzie	1.3	1.7	2.3	1.0	1.0	1.0	1.0	1.0	1.0
Simpson	1.4	1.7	3.0	1.0	1.0	1.2	1.0	1.0	1.0
M75-25	1.4	1.3	3.3	1.0	1.0	1.2	1.0	1.0	1.0
M76-50	1.4	1.7	3.3	1.0	1.0	1.0	1.0	1.0	1.0
M76-149	1.5	2.0	3.0	1.0	1.0	1.8	1.0	1.0	1.0
M76-314	1.4	1.7	3.0	1.0	1.0	1.2	1.0	1.0	1.0
M76-353	1.4	1.7	3.0	1.0	1.0	1.7	1.0	1.0	1.0
M77-22	1.6	2.7	4.0	1.0	1.0	1.4	1.0	1.0	1.0
M77-69	1.5	2.0	3.7	1.0	1.0	1.2	1.0	1.0	1.0
M77-156	1.3	1.3	2.7	1.0	1.0	1.0	1.0	1.0	1.0
M77-218	1.6	2.3	3.7	1.0	1.0	2.0	1.0	1.0	1.0
M77-252	1.8	3.0	4.0	1.0	1.0	2.6	1.0	1.0	1.0
OT83-4	1.6	2.3	3.7	1.0	1.0	1.7	1.0	1.0	1.0

UNIFORM TEST 0, 1984

PLANT HEIGHT (inches)

Strain	Mean of 8 Tests	Morris, MN	Rose-mount, MN	Fargo, ND	Elora, Ont	Ottawa, Ont	Smith-field, Ont	Wilmot, SD	Spooner, WI
Dawson	28	28	38	24	24	35	24	30	23
Evans (0)	28	31	43	20	25	32	22	32	21
Hodgson 78 (I)	33	32	44	30	30	38	30	32	28
McCall (00)	25	26	36	21	23	22	25	23	20
Ozzie	27	26	40	21	24	28	29	28	19
Simpson	28	29	40	19	25	31	26	31	22
M75-25	26	27	36	20	20	29	28	27	21
M76-50	23	23	33	17	20	22	22	25	18
M76-149	31	35	45	23	26	32	32	33	25
M76-314	29	31	40	23	25	32	27	31	22
M76-353	30	31	43	21	24	32	35	30	20
M77-22	28	31	41	20	24	31	26	30	21
M77-69	28	27	42	20	28	28	29	29	20
M77-156	27	29	40	20	26	28	22	29	21
M77-218	33	36	44	25	28	38	31	34	25
M77-252	26	27	35	21	24	28	24	27	20
OT83-4	32	34	41	26	28	31	34	36	23

SEED QUALITY (score)

Strain	8 Tests								
Dawson	1.6	1.7	1.7	1.0	2.0	1.0	1.3	2.0	2.0
Evans (0)	1.5	1.7	1.3	1.0	2.0	1.0	1.3	2.0	2.0
Hodgson 78 (I)	1.6	1.7	1.7	1.0	2.0	1.0	1.3	2.0	1.8
McCall (00)	1.8	1.3	1.3	1.0	2.5	1.0	1.3	3.0	2.8
Ozzie	1.6	1.3	1.7	2.0	2.0	1.0	1.0	2.0	2.0
Simpson	1.7	1.7	2.0	1.0	2.0	1.0	1.0	3.0	1.8
M75-25	1.6	1.3	1.7	1.0	2.5	1.3	1.0	2.0	1.8
M76-50	1.8	1.7	2.0	1.0	2.0	1.0	1.0	3.0	2.5
M76-149	1.7	1.7	1.3	1.0	2.0	1.0	1.0	3.0	2.3
M76-314	1.7	1.7	1.7	1.0	2.5	1.0	1.3	2.0	2.3
M76-353	1.5	1.3	1.3	1.0	2.5	1.0	1.0	2.0	1.7
M77-22	1.6	1.3	1.7	1.0	2.0	1.0	1.3	3.0	1.8
M77-69	1.8	1.3	2.0	2.0	2.5	1.0	1.0	2.0	2.2
M77-156	1.7	1.3	1.7	1.0	2.0	1.0	1.0	3.0	2.3
M77-218	1.6	1.3	1.3	1.0	2.5	1.0	1.0	3.0	2.0
M77-252	1.5	1.3	1.3	1.0	2.0	1.0	1.4	2.0	1.8
OT83-4	1.4	1.0	1.0	1.0	2.0	1.0	1.0	2.0	1.8

UNIFORM TEST 0, 1984

SEED SIZE (g/100)

Strain	Mean of 8 Tests	Morris, MN	Rose-mount, MN	Fargo, ND
Dawson	15.4	14.3	15.0	14.7
Evans (0)	16.2	16.4	17.0	13.4
Hodgson 78 (I)	16.4	15.6	17.6	13.9
McCall (00)	15.2	15.0	15.6	12.3
Ozzie	16.2	16.2	18.1	13.4
Simpson	15.6	16.6	17.2	13.6
M75-25	17.0	16.8	19.3	14.5
M76-50	18.6	18.9	20.6	14.5
M76-149	14.3	13.9	14.9	11.5
M76-314	18.5	18.7	20.7	14.5
M76-353	16.9	17.5	19.1	13.6
M77-22	17.0	18.3	19.5	14.1
M77-69	16.8	17.1	19.1	13.8
M77-156	17.3	16.1	18.7	14.0
M77-218	17.7	17.8	19.8	15.0
M77-252	17.7	18.0	18.9	15.2
OT83-4	15.7	14.8	15.5	14.9

PROTEIN (%)

Strain	Mean of 5 Tests	Morris, MN	Rose-mount, MN	Fargo, ND	Wilmot, SD	Spooner, WI
Dawson	38.5	38.4	38.6	38.5	37.4	39.8
Evans (0)	39.3	42.2	37.1	38.8	37.6	41.0
Hodgson 78 (I)	38.9	38.8	38.2	37.8	38.8	40.8
McCall (00)	39.2	39.3	41.0	38.6	38.7	38.5
Ozzie	40.3	40.3	40.5	39.1	40.0	41.7
Simpson	40.0	41.5	40.0	38.5	38.8	41.0
M75-25	39.8	40.3	40.0	37.5	39.7	41.6
M76-50	37.9	38.9	37.2	37.7	35.9	39.1
M76-149	40.3	41.0	40.7	39.4	38.3	41.9
M76-314	39.5	39.8	39.9	38.6	37.4	41.7
M76-353	39.3	39.8	39.8	38.4	38.1	40.5
M77-22	39.8	40.3	39.4	39.6	38.3	41.2
M77-69	37.4	39.0	37.2	37.4	33.8	39.5
M77-156	39.0	39.0	38.9	37.0	38.2	41.8
M77-218	40.0	40.0	40.5	38.5	39.2	41.8
M77-252	43.2	44.9	43.1	41.3	41.7	45.1
OT83-4	39.3	39.6	38.4	37.3	40.1	41.1

UNIFORM TEST 0, 1984

SEED SIZE (g/100)

Elora, Ont	Ottawa, Ont	Smith-field, Ont	Wilmot, SD	Spooner, WI
13.7	17.2	16.9	14.4	16.8
13.7	16.8	17.8	16.3	18.1
14.6	17.5	18.3	16.5	17.4
12.6	17.3	16.5	16.0	16.4
13.6	16.4	17.6	16.7	17.4
12.6	16.1	17.0	14.8	16.6
14.0	17.8	18.0	17.2	18.0
15.6	18.8	19.7	19.9	21.0
12.8	15.2	15.8	13.2	17.1
15.7	19.4	19.2	19.4	20.5
14.4	18.1	17.0	16.8	18.9
14.2	17.9	17.3	16.2	18.5
15.9	17.4	18.7	15.3	17.4
15.2	18.0	16.9	18.7	20.4
15.6	17.6	18.1	17.4	20.1
15.6	20.1	18.8	15.2	19.7
13.6	16.9	16.5	15.8	17.5

OIL (%)

Mean of 5 Tests	Morris, MN	Rose-mount, MN	Fargo, ND	Wilmot, SD	Spooner, WI
21.8	20.9	22.9	21.9	22.7	20.7
22.5	21.7	23.2	22.8	23.1	21.6
21.3	20.5	22.1	22.0	22.1	20.0
20.6	20.6	16.8	21.4	22.8	21.6
21.6	21.2	21.7	22.2	22.5	20.6
21.4	20.4	21.1	22.7	22.2	20.7
21.4	19.9	22.3	22.3	21.9	20.4
23.8	23.0	23.0	24.2	25.0	23.6
21.6	19.8	21.4	22.8	23.2	20.7
20.8	21.0	20.3	20.9	22.4	19.6
22.2	21.7	22.3	22.8	22.6	21.8
21.7	21.1	21.1	22.3	23.1	21.1
22.5	21.1	23.7	22.3	23.8	21.7
21.1	21.0	20.9	21.9	21.8	20.1
20.3	18.9	20.3	21.1	21.2	19.9
18.9	17.8	18.7	19.9	20.1	18.0
21.4	20.4	22.3	23.2	20.4	20.8

UNIFORM TEST I, 1984

	Strain	Parentage	Previous Testing*	Generation Composited
1.	Elgin (II)	AP6(2YT) (F_4) C1	UT II	F_4
2.	Evans (O)	Merit x Harosoy	7	F_5
3.	Hodgson 78 (I)	Hodgson[7] x Merit	10	BC_6 F_3
4.	Hardin	Corsoy[5] x Cutler 71	1	F_3
5.	A80-149020	L69U40-16-4 x A76-304020	UT II	F_4
6.	A81-151026	A75-20418 x Century	1	F_4
7.	A82-161034	A76-103002 x A77-211021	PT I	F_4
8.	A82-162033	A77-211021 x Tri-Valley Charger	PT I	F_4
9.	A82-164003	Pride B-216[2] x A2	PT I	BC_1 F_3
10.	A82-167014	AP6E TW 2YT (F_4) C2	PT I	F_4
11.	M74-62	M68-256 x Hodgson	2	F_5
12.	M74-498	Peterson Px20 x 554-10	PT IIB	F_5
13.	M75-2	Hodgson[4] x [M67-141 x (chippewa x Higan)]	--	F_5
14.	M76-55	M69-20 x McCall	PT I	F_5
15.	M76-281	M70-187 x (Hodgson[6] x Merit)	PT I	F_5

*Number of years in test or name of 1983 test.

Descriptive and Disease Data

	Strain	Descriptive Code	Chlorosis Score	Emergence Score	Shattering Score	BSR Ames	
			Ames	Ames	Manhattan	Plant N %	Stem N %
1.	Elgin (II)	PTBrSYBl I	4.3	4	1.0	80	36.0
2.	Evans (O)	WGBrDYY I	2.5	1	2.0	40	10.1
3.	Hodgson 78 (I)	PGBrDYBf I	2.7	2	2.0	80	24.3
4.	Hardin	PGBrDYY I	4.5	1	1.0	--	--
5.	A80-149020	PGT IYIb I	2.7	1	2.0	20	15.4
6.	A81-151026	PTBrDYBr I	2.3	2	1.0	50	12.2
7.	A82-161034	WGBrDYBf I	2.7	5	2.0	10	10.1
8.	A82-162033	PTBrDYBr I	3.8	1	2.0	40	15.9
9.	A82-164003	WGBrSYY I	3.5	3	-	40	28.1
10.	A82-167014	PTBrIYGr I	3.7	5	1.0	30	7.4
11.	M74-62	WGBrDYY I	4.3	1	1.0	60	24.0
12.	M74-498	PGBrDYBf I	3.7	1	1.0	70	33.2
13.	M75-2	PGB DYBf I	2.5	3	2.0	80	16.1
14.	M76-55	WGBrDYBf I	2.3	1	2.0	80	25.6
15.	M76-281	PGBrDYBf I	2.3	1	2.0	30	9.3

UNIFORM TEST I, 1984

Disease Data

	BTS	FE	PR		PS	PSB	SMV	GERM
	Ames	Lafayette	Ames	Lafayette	Lafayette			
Strain	a Score	Race 2 Score	Race 4 Reaction	Race 1 Reaction	a %	n %	a Score	%
Elgin (I1)	4	1	S	S	51	1	5E	86
Evans (0)	3	-	S	R	47	30	4E	48
Hodgson 78 (I)	4	4	S	R	42	12	3E	70
Hardin	3	1	S	R	76	2	5E	88
A80-149020	3	1	S	R	49	9	1	75
A81-151026	4	1	S	S	45	1	5E	95
A82-161034	5	4	S	R	92	6	1	76
A82-162033	4	5	S	R	64	7	3E	88
A82-164003	4	5	I	S	28	10	5E	78
A82-167014	5	5	S	S	72	9	5E	78
M74-62	3	5	S	R	27	15	2E	80
M74-498	3	1	S	R	67	20	3E	70
M75-2	4	5	S	R	26	11	5E	63
M76-55	5	5	S	R	42	17	2E	66
M76-281	3	1	S	R	20	31	1	57

Regional Summary

								Composition	
Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Protein	Oil
No. of Test	13 bu/a	13 No.	12 Date	13 Score	13 In	10 Score	12 g/100	4 %	4 %
Elgin (I1)	42.8	5	+5.3	1.6	31	2.2	15.9	39.0	20.6
Evans (0)	32.5	15	-5.6	1.2	26	1.9	16.1	38.3	22.8
Hodgson 78 (I)	39.8	11	9-17.4*	1.8	31	1.7	16.9	39.5	21.9
Hardin	43.2	3	+2.7	1.8	33	1.7	15.7	39.2	20.8
A80-149020	43.0	4	+3.8	1.6	33	1.9	17.3	39.9	20.4
A81-151026	41.0	9	+2.2	1.9	31	1.9	15.4	39.4	21.0
A82-161034	44.6	1	+3.6	2.0	32	2.0	16.5	40.1	21.1
A82-162033	41.7	7	+5.1	1.6	34	2.2	18.2	39.2	20.8
A82-164003	41.3	8	+1.8	2.0	31	1.6	16.1	38.8	21.6
A82-167014	42.4	6	+4.9	1.7	31	1.3	14.9	40.5	20.7
M74-62	40.7	10	+0.8	1.6	30	1.9	18.4	39.6	22.1
M74-498	43.6	2	+4.0	1.7	32	1.8	16.3	41.1	20.5
M75-2	39.5	12	-1.1	1.7	31	1.9	17.0	39.8	21.8
M76-55	37.8	14	-2.7	1.6	28	1.9	17.1	40.1	22.0
M76-281	39.1	13	-0.8	1.3	29	1.6	17.1	38.2	22.1

*119 days after planting

UNIFORM TEST I, 1984

1983-1984 2-Year Mean

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	28	28	25	28	28	22	27	9	9
	bu/a	No.	Date	Score	In	Score	g/100	%	%
Evans (0)	31.1	5	-6.6	1.3	27	2.2	14.9	38.5	23.2
Hodgson 78 (I)	40.2	4	9-16.2*	1.7	32	1.8	16.1	39.2	22.3
Hardin	42.8	1	+4.3	1.9	35	2.0	14.8	39.4	21.5
A81-151026	42.4	2	+3.6	1.6	32	1.9	15.0	40.1	21.4
M74-62	41.2	3	+0.8	1.7	31	1.9	17.5	39.8	22.5

*117 days after planting

1982-1984 3-Year Mean

No. of Tests	42	42	38	42	42	33	39	14	14
Evans (0)	33.8	3	-7.1	1.3	28	2.1	15.1	38.7	21.5
Hodgson 78 (I)	42.0	2	9-17.5*	1.7	32	1.8	15.9	39.3	20.8
M74-62	43.3	1	+0.9	1.7	31	1.9	17.6	39.6	21.3

*118 days after planting

Yields of two strains, A82-161034 and M74-498, exceeded those of the check varieties in 1984. A82-161034 had a poor emergence score and excellent resistance to brown stem rot. M74-498 had an excellent emergence score but was no more resistant to brown stem rot than the check varieties. Both strains were resistant to race 1 of *P. megasperma* f. sp. *glycinea*. The strain M74-62 has been similar in performance to Hardin during the past two to three years of testing.

UNIFORM TEST I, 1984

YIELD (bu/a)

Strain	Mean of 13 Tests	Corwith, IA	Manson, IA	Lafayette, IN	Britton, MI	Ithaca, MI
1. Elgin (I)	42.8	37.1	42.7	48.1	59.1	45.9
2. Evans (O)	32.5	22.7	27.8	16.8	50.4	39.7
3. Hodgson 78 (I)	39.8	35.6	37.6	37.7	53.0	40.9
4. Hardin	43.2	36.4	40.7	41.2	55.7	46.4
5. A80-149020	43.0	36.4	41.2	47.5	55.7	44.0
6. A81-151026	41.0	38.2	39.5	39.7	54.1	44.9
7. A82-161034	44.6	39.8	46.2	47.1	56.3	44.0
8. A82-162033	41.7	38.2	39.6	45.6	51.6	44.2
9. A82-164003	41.3	39.5	40.2	43.4	51.3	44.0
10. A82-167014	42.4	40.1	43.0	47.7	55.7	46.0
11. M74-62	40.7	36.7	38.4	40.4	55.3	42.8
12. M74-498	43.6	40.8	43.0	48.2	52.7	47.3
13. M75-2	39.5	31.7	39.4	38.2	53.9	40.8
14. M76-55	37.8	31.1	34.3	33.3	51.6	39.6
15. M76-281	39.1	34.0	36.5	32.9	51.8	45.3
C.V. (%)		9.2	7.7	7.6	9.2	8.5
L.S.D. (5%)		4.7	4.4	4.9	7.1	5.3
Row sp. (In.)		27	27	24	20	20
Rows/plot		4	4	4	4	4
Reps		4	4	3	4	4

YIELD RANK

Strain	Mean of 13 Tests					
1. Elgin (I)	5	7	4	2	1	4
2. Evans (O)	15	15	15	15	15	14
3. Hodgson 78 (I)	11	11	12	11	9	12
4. Hardin	3	9	6	8	3	2
5. A80-149020	4	9	5	4	3	8
6. A81-151026	9	5	9	10	7	6
7. A82-161034	1	3	1	5	2	8
8. A82-162033	7	5	8	6	13	7
9. A82-164003	8	4	7	7	14	8
10. A82-167014	6	2	2	3	3	3
11. M74-62	10	8	11	9	6	11
12. M74-498	2	1	2	1	10	1
13. M75-2	12	13	10	12	8	13
14. M76-55	14	14	14	13	12	15
15. M76-281	13	12	13	14	11	5

UNIFORM TEST I, 1984

YIELD (bu/a)

Lamberton, MN	Waseca, MN	Mead, NE	Ridgetown, Ont	State College, PA	Brookings, SD	Wilmot, SD	Arlington, WI
45.1	39.7	45.3	46.0	43.4	36.1	27.5	40.7
31.2	36.1	27.5	36.9	35.7	36.8	26.6	34.4
42.2	41.3	39.0	40.8	38.3	44.6	31.2	34.7
43.0	42.4	42.3	46.9	41.5	50.4	39.4	38.9
43.3	40.9	47.1	44.1	46.1	37.6	34.5	40.7
41.8	40.2	43.6	44.7	35.8	37.7	33.9	39.2
49.0	42.2	44.5	40.2	45.7	48.1	39.1	37.5
40.8	39.5	46.0	47.3	45.4	27.2	37.8	39.3
40.8	37.3	45.4	42.4	37.9	45.7	29.1	39.3
44.2	35.2	44.8	42.1	42.5	34.5	34.8	40.5
38.3	40.0	40.8	40.8	39.3	45.6	32.4	37.7
47.2	36.4	45.6	42.3	43.5	49.8	33.0	36.6
42.0	38.1	39.6	37.4	35.5	46.6	34.9	34.8
30.3	43.0	35.4	41.3	35.4	47.6	34.4	35.2
42.7	41.2	37.5	37.6	35.1	43.7	33.9	36.6
10.5	9.6	5.1	8.1	9.5	9.5	7.4	7.6
7.3	6.4	3.5	5.7	6.4	6.6	4.1	4.6
30	30	30	24	24	30	30	30
4	4	4	4	4	4	4	4
3	3	3	3	3	3	3	3

YIELD RANK

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

UNIFORM TEST I, 1984

MATURITY (date)

	Strain	Mean of 12 Tests	Corwith, IA	Manson, IA	Lafayette, IN	Britton, MI	Ithaca, MI
1.	Elgin (I)	+5.3	+7		+4	+1	+8
2.	Evans (O)	-5.6	-8		-11	-2	-4
3.	Hodgson 78 (I)	9-17.4	9-10		8-27	9-19	9-22
4.	Hardin	+2.7	+3		+1	+2	+4
5.	A80-149020	+3.8	+4		+2	-2	+8
6.	A81-151026	+2.2	+4		+1	-2	+7
7.	A82-161034	+3.6	+4		+3	+1	+7
8.	A82-162033	+5.1	+5		+5	+2	+9
9.	A82-164003	+1.8	+5		+1	0	+3
10.	A82-167014	+4.9	+6		+5	+4	+8
11.	M74-62	+0.8	+2		+1	0	+2
12.	M74-498	+4.0	+5		+6	+2	+8
13.	M75-2	-1.1	-2		-1	-3	-1
14.	M76-55	-2.7	-3		-2	-1	-3
15.	M76-281	-0.8	+0		-3	+1	+1
Date planted		5-21	5-16	5-24	5-10	5-10	5-21
Days to mature		119	117		110	132	124

LODGING (score)

	Strain	Mean of 13 Tests					
1.	Elgin (I)	1.9	1.6	1.4	1.3	2.5	2.5
2.	Evans (O)	1.5	1.2	1.2	1.0	1.8	1.8
3.	Hodgson 78 (I)	1.6	1.8	1.5	1.3	1.3	2.0
4.	Hardin	1.8	1.8	1.5	1.0	1.8	2.3
5.	A80-149020	1.6	1.6	1.4	1.2	1.5	1.5
6.	A81-151026	1.4	1.9	1.3	1.0	1.0	1.5
7.	A82-161034	1.8	2.0	1.7	1.5	1.5	2.3
8.	A82-162033	1.9	1.6	1.2	1.2	2.3	2.3
9.	A82-164003	1.9	2.0	1.9	1.5	2.0	2.5
10.	A82-167014	1.7	1.7	1.3	1.0	1.5	1.8
11.	M74-62	1.5	1.6	1.5	1.0	1.8	2.0
12.	M74-498	1.5	1.7	1.2	1.0	1.5	2.0
13.	M75-2	1.5	1.7	1.3	1.2	1.5	1.5
14.	M76-55	1.6	1.6	1.4	1.0	2.0	1.8
15.	M76-281	1.3	1.3	1.2	1.0	1.0	2.5

UNIFORM TEST I, 1984

MATURITY (date)

Lamberton, MN	Waseca, MN	Mead, NE	Ridgetown, Ont	State College, PA	Brookings, SD	Wilmot, SD	Arlington, WI
+8	+6	+5	+6	+4	+6	+5	+3
-4	-7	-5	-12	-4	-7	-6	+3
9-14	9-12	9-17	9-30	9-25	9-29	9-23	9-12
+1	+2	+3	+5	+6	+1	+2	+2
+7	+3	+3	+6	+2	+4	+4	+4
+2	+2	0	+3	0	+4	+3	+2
+6	+4	+3	+3	+8	+1	+1	+2
+8	+5	+3	+6	+4	+6	+5	+3
+2	+3	+2	+1	0	+2	+1	+2
+8	+2	+5	+5	+4	+5	+3	+3
+1	0	+2	-1	-1	+1	+2	0
+4	+5	+3	+2	+3	+5	+2	+3
-1	0	-2	-1	-1	-1	0	0
-2	-4	-3	-4	-4	0	-3	-3
-1	0	-2	0	-5	-2	+2	0
5-17	5-15	6-6	6-7	6-2	5-25	5-22	5-12
120	120	103	115	115	127	124	123

LODGING (score)

2.7	2.0	1.5	3.3	1.3	2.0	1.0	2.0
1.0	1.7	1.0	3.0	1.3	1.3	1.0	1.7
1.3	2.0	1.2	2.7	1.3	1.0	1.0	2.0
2.3	2.0	1.5	3.3	1.0	1.3	1.0	2.8
2.3	2.0	1.2	2.3	1.0	1.7	1.0	1.7
1.3	1.7	1.0	2.3	1.0	1.3	1.0	2.0
2.3	2.0	1.0	2.7	1.7	1.7	1.0	2.0
1.7	2.0	1.3	3.7	1.3	2.0	1.0	2.8
2.3	2.0	1.3	3.0	1.0	2.0	1.0	2.5
1.7	2.0	1.3	3.3	1.0	2.7	1.0	1.8
2.3	1.3	1.0	2.0	1.7	1.0	1.0	1.8
2.0	1.3	1.0	1.7	1.0	1.7	1.0	2.0
1.0	2.0	1.0	3.3	1.0	1.0	1.0	2.2
1.0	2.0	1.0	3.0	1.3	1.0	1.0	2.2
1.0	1.3	1.0	1.7	1.0	1.3	1.0	1.3

UNIFORM TEST I, 1984

PLANT HEIGHT (inches)

	Strain	Mean of 13 Tests	Corwith, IA	Manson, IA	Lafayette, IN	Britton, MI	Ithaca, MI
1.	Elgin (II)	31	26	26	30	33	34
2.	Evans (O)	26	19	21	20	31	30
3.	Hodgson 78 (I)	31	27	24	26	34	40
4.	Hardin	33	26	27	29	34	42
5.	A80-149020	33	29	29	31	35	36
6.	A81-151026	31	28	24	24	33	39
7.	A82-161034	32	26	27	26	34	39
8.	A82-162033	34	28	28	29	38	44
9.	A82-164003	31	26	27	27	31	42
10.	A82-167014	31	28	26	28	36	36
11.	M74-62	30	24	25	27	34	33
12.	M74-498	32	28	25	29	35	40
13.	M75-2	31	22	24	27	33	36
14.	M76-55	28	21	23	23	30	34
15.	M76-281	29	24	23	23	32	37

SEED QUALITY (score)

		Mean of 10 Tests		
1.	Elgin (II)	2.2	1.3	1.5
2.	Evans (O)	1.9	1.7	1.5
3.	Hodgson 78 (I)	1.7	1.3	2.0
4.	Hardin	1.7	1.3	1.5
5.	A80-149020	1.9	1.4	1.5
6.	A81-151026	1.9	1.3	1.5
7.	A82-161034	2.0	1.8	1.5
8.	A82-162033	2.2	1.8	1.5
9.	A82-164003	1.6	1.3	1.0
10.	A82-167014	2.3	1.4	1.5
11.	M74-62	1.9	1.6	1.0
12.	M74-498	1.8	1.6	1.0
13.	M75-2	1.9	1.5	1.5
14.	M76-55	1.9	1.8	1.5
15.	M76-281	1.6	1.3	1.5

UNIFORM TEST I, 1984

PLANT HEIGHT (inches)

Lamberton, MN	Waseca, MN	Mead, NE	Ridgetown, Ont	State College, PA	Brookings, SD	Wilmot, SD	Arlington, WI
40	33	28	31	29	34	30	31
27	30	21	26	26	31	27	32
34	33	25	33	32	35	29	33
36	34	29	35	33	35	33	40
40	35	27	33	32	37	32	36
38	33	25	32	29	32	30	32
36	37	27	33	33	37	32	35
35	37	28	39	35	34	32	38
32	33	27	33	29	36	30	32
37	31	28	34	31	32	30	32
39	30	25	31	30	32	31	33
36	35	26	35	31	35	33	34
33	31	25	32	31	36	33	34
27	31	23	30	29	35	28	31
33	33	24	27	28	32	30	32

SEED QUALITY (score)

1.7	1.3	1.5	1.0	2.0	5.0	4.0	2.2
1.3	1.7	2.0	1.0	2.0	3.0	2.0	2.3
1.3	1.3	1.7	1.0	2.5	2.0	2.0	2.2
1.3	1.3	1.8	1.0	1.5	3.0	2.0	2.0
1.7	1.3	2.3	1.0	1.5	4.0	2.0	2.5
1.7	1.3	1.8	1.0	2.0	4.0	2.0	2.2
1.3	1.7	2.0	1.0	2.0	4.0	3.0	1.7
2.0	1.7	1.8	2.0	2.0	5.0	2.0	2.3
1.3	1.0	2.0	1.0	2.0	3.0	2.0	1.8
1.7	1.3	2.0	2.0	2.0	5.0	4.0	2.0
1.3	1.7	1.7	1.0	2.0	3.0	4.0	2.0
1.3	1.0	1.7	1.0	2.0	3.0	3.0	2.2
1.3	1.3	1.8	1.0	2.0	3.0	3.0	2.2
1.7	1.7	2.0	1.0	2.0	2.0	3.0	2.2
1.3	1.3	2.0	1.0	2.0	2.0	2.0	2.0

UNIFORM TEST I, 1984

SEED SIZE (g/100)

	Strain	Mean of 12 Tests	Corwith, IA	Manson, IA	Lafayette, IN	Britton, MI	Ithaca, MI
1.	Elgin (I)	15.9	14.1		16.6	20.9	19.4
2.	Evans (O)	16.1	14.1		15.9	19.3	19.9
3.	Hodgson 78 (I)	16.9	15.0		19.3	20.0	20.5
4.	Hardin	15.7	13.2		17.3	19.1	20.2
5.	A80-149020	17.3	14.2		18.9	20.4	20.7
6.	A81-151026	15.4	13.7		16.3	18.7	18.6
7.	A82-161034	16.5	14.5		16.9	20.0	19.5
8.	A82-162033	18.2	15.7		20.2	23.2	21.5
9.	A82-164003	16.1	14.4		18.6	19.9	19.9
10.	A82-167014	14.9	13.3		18.0	19.0	18.5
11.	M74-62	18.4	16.3		20.1	20.2	22.6
12.	M74-498	16.3	15.0		18.2	19.8	18.8
13.	M75-2	17.0	14.5		20.0	20.0	21.1
14.	M76-55	17.1	14.8		19.3	19.7	21.4
15.	M76-281	17.1	14.1		20.3	20.8	21.1

PROTEIN (%)

	Strain	Mean of 4 Tests	Corwith, IA	Waseca, MN	Brookings, SD	Arlington, WI
1.	Elgin (I)	39.0	37.4	37.5	39.7	41.6
2.	Evans (O)	38.3	36.8	37.0	40.1	39.4
3.	Hodgson 78 (I)	39.5	39.0	38.7	40.6	39.5
4.	Hardin	39.1	37.3	37.4	38.9	42.6
5.	A80-149020	39.9	39.3	38.7	40.7	41.0
6.	A81-151026	39.4	38.5	38.8	39.8	40.3
7.	A82-161034	40.1	39.2	39.3	41.4	40.6
8.	A82-162033	39.2	37.9	36.3	41.1	41.6
9.	A82-164003	38.8	37.5	37.4	39.7	40.5
10.	A82-167014	40.5	38.8	39.7	41.7	41.8
11.	M74-62	39.6	38.9	37.9	39.9	41.8
12.	M74-498	41.1	40.5	40.7	41.0	42.1
13.	M75-2	39.8	38.4	38.5	40.8	41.7
14.	M76-55	40.1	38.5	39.2	41.5	41.0
15.	M76-281	38.2	36.7	38.2	38.7	39.2

UNIFORM TEST I, 1984

SEED SIZE (g/100)

Lamberton, MN	Waseca, MN	Mead, NE	Ridgetown, Ont	State College, PA	Brookings, SD	Wilmot, SD	Arlington, WI
14.5	13.7	15.8	15.0	17.6	14.8	13.5	14.9
14.4	14.6	15.9	14.2	17.9	16.2	16.6	13.8
14.8	14.3	17.8	14.8	18.4	16.1	16.9	14.7
14.2	12.7	16.1	14.0	17.1	14.6	16.4	13.5
14.9	14.0	18.2	16.9	20.1	16.1	17.0	15.7
13.2	12.7	16.7	15.0	16.1	15.7	14.5	13.7
15.6	15.4	16.5	14.5	18.5	17.0	15.7	14.4
15.4	15.2	19.3	17.2	19.1	18.2	16.2	16.7
14.3	14.0	17.5	14.5	16.8	15.3	14.9	13.4
13.8	14.0	15.7	15.0	15.2	15.0	14.8	14.2
16.6	15.9	19.4	15.3	19.2	19.6	20.3	15.6
15.2	13.7	18.0	14.4	15.7	17.4	15.3	14.3
14.5	13.9	17.9	15.0	18.1	17.1	17.2	14.7
14.7	14.7	16.7	15.8	18.1	18.3	16.2	15.4
14.9	15.1	17.1	14.6	17.6	16.8	17.3	15.2

OIL (%)

Strain	Mean of 4 Tests	Corwith, IA	Waseca, MN	Brookings, SD	Arlington, WI
1. Elgin (I)	20.6	21.6	21.3	20.1	19.4
2. Evans (O)	22.8	23.8	23.6	21.6	22.2
3. Hodgson 78 (I)	21.9	22.8	22.4	20.8	21.6
4. Hardin	20.8	22.3	21.5	20.1	19.2
5. A80-149020	20.4	20.3	21.3	19.7	20.3
6. A81-151026	21.0	22.1	21.3	20.3	20.1
7. A82-161034	21.1	21.8	21.6	19.9	21.0
8. A82-162033	20.8	21.4	22.3	19.4	20.0
9. A82-164003	21.6	22.4	22.5	20.6	21.0
10. A82-167014	20.7	21.8	21.3	19.4	20.2
11. M74-62	22.1	22.9	23.8	21.0	20.8
12. M74-498	20.5	21.1	21.2	19.9	19.7
13. M75-2	21.8	22.7	23.1	20.6	20.9
14. M76-55	22.0	22.5	22.9	20.6	22.0
15. M76-281	22.1	23.4	22.9	20.6	21.6

PRELIMINARY TEST I, 1984

Descriptive and Other Data

	Strain	Parentage	Generation Composited	Descriptive Code		Chlorosis Score Ames	Shattering Score Manhattan
1.	Elgin (I)	Corsoy[6] x Lee	BC_5F_5	PTBrSYBI	I	3.5	1.0
2.	Evans (o)	Merit x Harosoy[7]	F_5	WGBrDYY	I	2.5	2.0
3.	Hodgson 78 (I)	Hodgson[3] x Merit	BC_6F_3	PGBrDYBf	I	2.8	2.0
4.	Hardin	Corsoy x Cutler 71	F_3	PGBrDYY	I	4.0	1.0
5.	A83-171001	Agripro AP200 x Hardin	F_4	PGBrIYY	I	4.0	1.0
6.	A83-171015	A78-122031 x Tri-Valley Charger	F_4	P+WG+TBrDYBI	I	3.7	1.0
7.	A83-172001	Agripro AP200 x Hardin	F_4	WGBrSYBI	I	4.2	1.0
8.	A83-172005	NAPB Ex 4380 x Merschman Washington V	F_4	PG+TBrDYBI	I	3.5	2.0
9.	A83-172007	A77-211021 x Merschman Washington V	F_4	WTBrDYBr	I	3.8	1.0
10.	A83-172017	NK S1492 x NAPB Ex 4380	F_4	PBBrSYBf	I	4.3	1.0
11.	A83-172030	Agripro AP200 x NK S1492	F_4	WGBrSYBf	I	4.0	2.0
12.	A83-173019	A78-122031 x Asgrow A3127	F_4	PTBrDYBI	I	4.7	1.0
13.	A83-174010	A77-211021 x NAPB Ex 4380	F_4	PGTDYBf	I	4.2	2.0
14.	A83-174011	NK S1492 x NAPB Ex 4380	F_4	PGBrDYBf	I	3.8	1.0
15.	A83-174017	Tri-Valley Charger x NAPB Ex 4380	F_4	PGBrSYBf	I	3.2	2.0
16.	A83-174020	NK S1492 x A78-122031	F_4	WGBrDYBf	I	4.7	1.0
17.	A83-174023	NK S1492 x A78-122031	F_4	WGBrDYBf	I	5.0	2.0
18.	A83-176004	BSR 201 x NK S1492	F_4	WGBrDYBf	I	4.8	2.0
19.	A83-176025	BSR 201 x NAPB Ex 4380	F_4	PGBrDYBf	I	3.5	3.0
20.	M75-314	M69-247 x KA 555	F_5	WGBrSYY	I	2.7	1.0
21.	M76-313	Evans x M69-42	F_5	WGBrDYY	I	3.3	1.0
22.	M76-322	M68-49-26 x Hodgson 78	F_5	WGBrDYBf	I	2.5	2.0
23.	M77-137	M71-77 x Simpson	F_5	PGBrDYIb	I	1.7	1.0
24.	M77-191	M68-49-26 x Simpson	F_5	WGBrDYY	I	3.2	2.0
25.	M77-228	M70-163 x M70-597	F_5	P+WGBrDYY	I	2.8	2.0
26.	M81-621	Seed from double embryo	-	WGBrDYY	I	3.8	1.0

PRELIMINARY TEST I, 1984

Disease Data

Strain	BSR Ames Plant N %	BSR Ames Stem N %	FE Lafayette R_2 Score	PR Ames R_4 Reaction	PR Lafayette R_1 Reaction	PS Lafayette a %	PS Lafayette n %	SMV Lafayette a Score	Germ %
Elgin (I)	70	20.1	1	S	S	51	1	5E	86
Evans (o)	90	58.7	-	S	R	47	30	4E	48
Hodgson 78 (I)	80	19.8	4	S	R	42	12	3E	70
Hardin	100	28.8	1	S	R	76	2	5E	88
A83-171001	-	--	1	S	R	73	12	5E	74
A83-171015	90	22.6	1	S	H	23	11	4E	74
A83-172001	-	--	1	S	R	34	24	4E	59
A83-172005	60	20.0	5	S	R	46	4	4E	83
A83-172007	50	11.0	5	S	R	63	11	4E	78
A83-172017	70	16.7	5	S	R	28	7	4E	84
A83-172030	50	31.8	3	S	R	24	36	4E	43
A83-173019	80	19.7	2	S	S	16	3	4E	39
A83-174010	70	34.1	5	S	R	66	10	1	78
A83-174011	80	25.9	1	S	R	50	5	4E	71
A83-174017	70	18.8	1	S	S	45	9	1	86
A83-174020	70	24.7	4	S	S	44	8	4E	69
A83-174023	80	45.3	1	S	S	29	14	4E	79
A83-176004	80	46.2	3	S	H	53	4	5E	90
A83-176025	70	21.4	2	S	R	33	2	1	86
M75-314	60	21.1	5	S	R	50	4	1	79
M76-313	20	2.2	1	S	R	49	10	5E	72
M76-322	-	--	5	S	R	40	10	2E	76
M77-137	-	--	5	S	S	88	7	1	31
M77-191	-	--	5	S	R	72	11	1	61
M77-228	-	--	4	S	H	46	4	5E	65
M81-621	-	--	4	S	S	55	6	1	84

PRELIMINARY TEST I, 1984

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	7 bu/a	7 No.	6 Date	7 Score	7 In	5 Score	6 g/100	4 %	4 %
Elgin (I)	43.0	4	+6.5	1.9	32	2.1	16.0	38.7	20.6
Evans (o)	33.9	26	-6.3	1.3	27	1.8	15.9	39.0	22.5
Hodgson 78 (I)	39.9	16	9-16.5*	1.5	32	1.7	16.0	39.4	21.6
Hardin	41.2	10	+2.8	1.8	35	1.5	14.8	39.2	21.6
A83-171001	41.3	9	+2.8	2.0	37	1.9	15.9	39.2	21.1
A83-171015	42.4	6	+2.3	1.8	32	1.9	15.7	39.0	21.0
A83-172001	38.1	23	+3.5	2.4	35	2.2	15.2	39.3	20.4
A83-172005	42.7	5	+3.2	1.7	34	2.1	16.2	39.7	20.5
A83-172007	43.4	3	+4.2	1.9	35	1.7	18.1	40.9	20.4
A83-172017	38.4	22	+6.8	2.6	35	2.0	16.8	40.2	20.1
A83-172030	43.6	2	+3.3	2.0	32	1.8	15.9	38.7	20.8
A83-173019	41.0	13	+5.8	2.0	34	2.0	14.7	40.7	20.7
A83-174010	42.3	7	+6.2	2.4	35	2.2	18.3	40.6	20.2
A83-174011	41.1	11	+5.3	1.9	31	2.3	18.1	40.5	20.1
A83-174017	41.4	8	+5.5	2.1	35	1.9	16.2	41.5	20.1
A83-174020	45.2	1	+5.0	2.2	33	2.3	16.3	40.1	21.3
A83-174023	40.9	14	+5.0	2.0	33	2.0	15.0	40.4	20.4
A83-176004	41.1	11	+7.8	2.1	34	2.2	15.7	40.1	19.9
A83-176025	39.6	17	+6.5	1.8	36	2.0	14.1	41.5	19.1
M75-314	36.8	25	-1.2	1.4	30	1.5	17.5	40.3	22.7
M76-313	38.1	23	-1.5	1.4	29	1.6	16.6	39.9	21.2
M76-322	38.6	21	+2.3	1.4	31	1.8	16.0	39.3	22.0
M77-137	39.1	18	-2.5	1.3	30	1.7	16.0	39.8	21.4
M77-191	40.0	15	+3.0	1.5	32	1.7	17.9	40.5	20.8
M77-228	38.9	20	+4.3	1.6	32	1.6	17.0	40.5	19.9
M81-621	39.0	19	-0.2	1.6	30	1.7	13.1	40.2	21.1

*122 days after planting

Three strains, A83-174020, A83-172030, and A83-172017, were superior in yield to the check varieties including Elgin. Two of these strains, A83-172017 and 172030 were resistant to race 1 of P. megasperma f. sp. glycinea. The strain M77-137 had excellent resistance to iron chlorosis but was susceptible to phytophthora rot.

PRELIMINARY TEST I, 1984

Yield (bu/a)

Strain	Mean 7 Tests	Corwith, IA	Manson, IA	Ithaca, MI	Lamberton, MN	Waseca, MN	Brookings, S.D.	Arlington, WI
Elgin (I)	43.0	39.8	39.7	54.4	43.3	45.0	40.2	38.8
Evans (o)	33.9	24.0	29.0	35.6	44.5	34.7	38.9	30.9
Hodgson 78 (I)	39.9	30.0	40.1	42.5	46.1	43.8	42.3	34.4
Hardin	41.2	37.7	44.0	44.5	43.3	43.7	38.9	36.4
A83-171001	41.3	42.5	41.1	42.4	44.9	42.2	41.6	34.2
A83-171015	42.4	41.4	40.2	44.0	46.7	43.5	45.3	36.0
A83-172001	38.1	42.3	39.4	30.6	39.1	35.7	46.3	33.6
A83-172005	42.7	36.6	41.1	51.0	44.7	40.0	45.9	39.8
A83-172007	43.4	43.6	44.4	38.0	45.1	47.9	47.9	37.0
A83-172017	38.4	37.0	40.6	45.0	34.2	35.6	41.5	34.8
A83-172030	43.6	41.6	42.4	47.8	39.8	44.7	50.5	38.2
A83-173019	41.0	40.4	39.3	44.2	41.6	41.3	41.3	38.7
A83-174010	42.3	38.9	40.8	46.4	40.8	46.3	43.6	39.5
A83-174011	41.1	38.9	41.0	39.8	45.0	40.8	43.6	38.8
A83-174017	41.4	39.0	37.7	41.2	48.1	40.4	46.2	36.9
A83-174020	45.2	42.0	42.4	47.9	49.9	45.7	44.4	44.2
A83-174023	40.9	40.3	40.9	40.5	43.0	40.5	43.0	38.4
A83-176004	41.1	40.8	38.2	43.1	47.9	43.0	34.7	39.7
A83-176025	39.6	41.0	39.5	37.9	48.2	36.5	39.1	34.9
M75-314	36.8	28.3	38.4	39.2	34.1	40.0	46.3	31.5
M76-313	38.1	33.9	37.8	37.9	38.0	40.1	39.5	39.3
M76-322	38.6	30.4	40.0	40.8	41.5	39.8	41.8	36.1
M77-137	39.1	32.9	40.5	44.3	38.9	40.8	38.9	37.7
M77-191	40.0	33.0	38.8	39.1	42.0	38.1	49.0	39.7
M77-228	38.9	42.0	37.1	40.2	38.6	36.3	44.1	34.1
M81-621	39.0	29.8	41.0	43.9	39.3	43.7	38.9	36.7
C.V. (%)		6.9	5.3	9.9	10.2	7.5	9.9	8.5
L.S.D. (5%)		5.2	4.2	8.7	9.0	6.4	N.S.	6.4
Row sp. (in.)		27	27	20	30	30	30	30
Rows/plot		2	2	4	2	2	4	2
Reps		2	2	2	2	2	2	2

PRELIMINARY TEST I, 1984

Yield Rank

Strain		Corwith, IA	Manson, IA	Ithaca, MI	Lamberton, MN	Waseca, MN	Brookings, S.D.	Arlington, WI
Elgin (II)	4	12	16	1	12	4	19	7
Evans (o)	26	26	26	25	11	26	22	26
Hodgson 78 (I)	16	23	14	13	6	6	14	21
Hardin	10	16	2	7	12	7	22	16
A83-171001	9	2	5	14	9	11	16	22
A83-171015	6	7	13	10	5	9	8	18
A83-172001	23	3	18	26	21	24	4	24
A83-172005	5	18	5	2	10	18	7	2
A83-172007	3	1	1	22	7	1	3	13
A83-172017	22	17	11	6	25	25	17	20
A83-172030	2	6	3	4	19	5	1	11
A83-173019	13	10	19	9	16	12	18	9
A83-174010	7	14	10	5	18	2	11	5
A83-174011	11	14	7	19	8	13	11	7
A83-174017	8	13	24	15	3	16	6	14
A83-174020	1	4	3	3	1	3	9	1
A83-174023	14	11	9	17	14	15	13	10
A83-176004	11	9	22	12	4	10	26	3
A83-176025	17	8	17	23	2	22	21	19
M75-314	25	25	21	20	26	18	4	25
M76-313	23	19	23	23	24	17	20	6
M76-322	21	22	15	16	17	20	15	17
M77-137	18	21	12	8	22	13	22	12
M77-191	15	20	20	21	15	21	2	3
M77-228	20	4	25	18	23	23	10	23
M81-621	19	24	7	11	20	7	22	15

PRELIMINARY TEST I, 1984

Maturity (date)

Strain	Mean 6 Tests	Corwith, IA	Manson, IA	Ithaca, MI	Lamberton, MN	Waseca, MN	Brookings, S.D.	Arlington, WI
Elgin (I)	+6.5	+8		+6	+8	+5	+8	+4
Evans (o)	-6.3	-8		-4	-5	-5	-7	-9
Hodgson 78 (I)	9-16.5	9-10		9-23	9-14	9-12	9-28	9-12
Hardin	+2.8	+4		+5	+2	+2	+3	+1
A83-171001	+2.8	+3		+5	+2	+2	+2	+3
A83-171015	+2.3	+4		-1	+4	+3	+4	0
A83-172001	+3.5	+5		0	+3	+5	+5	+3
A83-172005	+3.2	0		+3	+4	+2	+7	+3
A83-172007	+4.2	+3		+4	+7	+5	+3	+3
A83-172017	+6.8	+6		+9	+9	+8	+3	+6
A83-172030	+3.3	+4		+2	+3	+5	+4	+2
A83-173019	+5.8	+6		+6	+7	+6	+7	+3
A83-174010	+6.2	+6		+8	+9	+5	+6	+3
A83-174011	+5.3	+4		+5	+7	+5	+7	+4
A83-174017	+5.5	+4		+5	+9	+5	+4	+6
A83-174020	+5.0	+6		+5	+6	+4	+5	+4
A83-174023	+5.0	+6		+4	+7	+5	+6	+2
A83-176004	+7.8	+8		+5	+9	+9	+10	+6
A83-176025	+6.5	+8		+8	+5	+6	+8	+4
M75-314	-1.2	-2		-4	-1	+1	0	-1
M76-313	-1.5	-4		0	+2	-3	-2	-2
M76-322	+2.3	+2		+4	0	+3	+3	+2
M77-137	-2.5	-2		-5	-1	-3	0	-4
M77-191	+3.0	+2		+4	+1	+4	+3	+4
M77-228	+4.3	+6		+6	+3	+5	+5	+1
M81-621	-0.2	-2		+2	0	-1	+1	-1
Date planted	5-18	5-16		5-25	5-17	5-15	5-23	5-12
Days to mature	122	117		125	120	120	128	123

PRELIMINARY TEST I, 1984

Lodging (score)

Strain	Mean 7 Tests	Corwith, IA	Manson, IA	Ithaca, MI	Lamberton, MN	Waseca, MN	Brookings, S.D.	Arlington, WI
Elgin (I)	1.9	1.5	1.5	2.0	2.5	2.0	2.0	2.0
Evans (o)	1.3	1.1	1.2	1.0	1.0	2.0	1.0	1.8
Hodgson 78 (I)	1.5	1.4	1.5	2.0	1.0	2.0	1.0	1.8
Hardin	1.8	1.6	2.0	1.5	2.0	2.0	1.0	2.3
A83-171001	2.0	1.8	2.0	2.0	2.0	2.5	1.0	2.8
A83-171015	1.8	1.7	1.7	2.0	2.0	2.0	1.5	2.0
A83-172001	2.4	2.1	1.9	1.5	2.5	2.5	3.0	3.0
A83-172005	1.7	1.6	1.6	2.0	2.0	1.5	1.0	2.0
A83-172007	1.9	1.8	1.4	1.5	2.5	2.0	1.5	2.5
A83-172017	2.6	1.8	2.2	2.5	2.5	3.0	3.0	3.3
A83-172030	2.0	1.8	1.5	1.5	2.5	2.0	2.5	2.0
A83-173019	2.0	1.8	1.7	2.0	2.5	2.0	2.0	2.0
A83-174010	2.4	2.6	2.1	2.5	3.0	2.0	2.0	2.5
A83-174011	1.9	1.8	1.7	1.0	3.0	2.0	1.5	2.5
A83-174017	2.1	1.8	1.7	2.0	3.0	2.0	2.0	2.5
A83-174020	2.2	2.6	1.7	1.5	3.0	2.0	2.5	2.3
A83-174023	2.0	2.0	1.8	1.0	3.0	2.0	2.0	2.5
A83-176004	2.1	1.9	1.6	1.5	3.5	2.0	2.0	2.5
A83-176025	2.8	2.6	2.5	3.0	2.5	3.0	2.5	3.3
M76-314	1.4	1.5	1.5	1.0	1.0	2.0	1.0	1.8
M76-313	1.4	1.4	1.2	1.0	1.5	2.0	1.0	1.8
M76-322	1.4	1.4	1.4	1.5	1.0	2.0	1.0	1.8
M77-137	1.3	1.2	1.3	1.5	1.0	2.0	1.0	1.3
M77-191	1.5	1.5	1.3	1.5	1.0	1.5	1.5	2.0
M77-228	1.6	1.5	1.3	1.5	2.0	2.0	1.0	2.0
M81-621	1.6	1.5	1.4	1.5	2.0	2.0	1.0	1.8

PRELIMINARY TEST I, 1984

Plant Height (Inches)

Strain	Mean 7 Tests	Corwith, IA	Manson, IA	Ithaca, MI	Lamberton, MN	Waseca, MN	Brookings, S.D.	Arlington, WI
Elgin (I)	32	23	28	35	36	38	32	30
Evans (o)	27	19	23	27	29	29	34	30
Hodgson 78 (I)	32	21	28	37	40	32	35	33
Hardin	35	28	30	41	38	33	36	36
A83-171001	37	28	31	47	38	36	37	39
A83-171015	32	26	28	37	33	34	33	31
A83-172001	35	29	28	39	35	35	38	38
A83-172005	34	27	28	44	36	31	38	33
A83-172007	35	32	31	34	37	38	42	34
A83-172017	35	29	28	40	36	38	41	34
A83-172030	32	26	26	32	34	35	36	33
A83-173019	34	30	28	41	37	31	37	34
A83-174010	35	29	31	41	40	36	38	33
A83-174011	31	28	24	32	33	33	36	32
A83-174017	35	29	27	42	39	38	38	34
A83-174020	33	30	28	38	34	36	34	32
A83-174023	33	26	28	32	37	38	35	32
A83-176004	34	30	28	38	37	37	35	31
A83-176025	36	30	28	41	33	40	40	37
M75-314	30	20	26	37	28	31	38	33
M76-313	29	20	22	31	34	32	31	32
M76-322	31	22	24	34	36	35	34	31
M77-137	30	20	24	34	32	35	33	32
M77-191	32	22	25	32	36	34	39	34
M77-228	32	28	27	32	37	32	35	33
M81-621	30	23	26	28	35	33	33	32

PRELIMINARY TEST I, 1984

Seed Quality (score)

Strain	Mean 5 Tests	Corwith, IA	Manson, IA	Ithaca MI	Lamberton, MN	Waseca, MN	Brookings, S.D.	Arlington, WI
Elgin (II)	2.1	1.4			1.5	1.0	4.0	2.8
Evans (o)	1.8	1.6			1.0	2.0	2.0	2.5
Hodgson 78 (I)	1.7	1.4			1.5	1.5	2.0	2.0
Hardin	1.5	1.4			1.0	1.5	2.0	1.8
A83-171001	1.9	1.5			1.5	1.5	2.0	3.0
A83-171015	1.9	1.4			1.5	1.5	3.0	2.0
A83-172001	2.2	1.4			1.0	1.0	5.0	2.5
A83-172005	2.1	1.4			1.0	1.5	4.0	2.8
A83-172007	1.7	1.3			1.5	1.0	3.0	1.8
A83-172017	2.0	1.4			1.0	1.0	4.0	2.8
A83-172030	1.8	1.3			1.0	1.0	3.0	2.5
A83-173019	2.0	1.3			1.5	1.0	4.0	2.3
A83-174010	2.2	1.6			1.5	1.5	4.0	2.3
A83-174011	2.3	1.3			1.5	1.5	4.0	3.3
A83-174017	1.9	1.3			1.0	1.0	4.0	2.0
A83-174020	2.3	1.3			2.0	1.5	4.0	2.5
A83-174023	2.0	1.4			1.5	1.5	3.0	2.5
A83-176004	2.2	1.3			1.5	1.5	4.0	2.8
A83-176025	2.0	1.3			1.0	1.0	4.0	2.8
M75-314	1.5	1.3			1.0	1.0	2.0	2.3
M76-313	1.6	1.4			1.0	1.5	2.0	2.0
M76-322	1.8	1.4			1.0	1.5	3.0	2.0
M77-137	1.7	1.4			1.0	2.0	2.0	2.0
M77-191	1.7	1.4			1.5	1.5	2.0	2.3
M77-228	1.6	1.4			1.0	1.0	3.0	1.8
M81-621	1.7	1.3			1.0	1.0	3.0	2.0

PRELIMINARY TEST I, 1984

Seed Size (g/100)

Strain	Mean 6 Tests	Corwith, IA	Manson, IA	Ithaca, MI	Lamberton, MN	Waseca, MN	Brookings, S.D.	Arlington, WI
Elgin (I)	16.0	13.8		20.8	14.0	17.1	15.0	15.5
Evans (o)	15.9	14.4		20.1	15.0	15.2	16.8	14.1
Hodgson 78 (I)	16.0	15.0		20.5	14.8	14.6	16.7	14.3
Hardin	14.8	13.7		19.0	13.9	13.8	15.3	13.0
A83-171001	15.9	14.8		20.6	14.5	14.6	16.1	15.0
A83-171015	15.7	15.0		19.8	14.6	14.5	16.1	14.2
A83-172001	15.2	14.1		20.1	13.3	13.6	16.6	13.7
A83-172005	16.2	13.8		21.2	14.6	15.3	16.3	15.7
A83-172007	18.1	17.0		23.8	15.6	17.1	19.0	16.2
A83-172017	16.8	14.8		21.7	15.4	16.9	16.2	15.7
A83-172030	15.9	13.8		20.4	14.3	15.6	16.4	15.1
A83-173019	14.7	13.0		20.3	13.1	14.0	14.3	13.5
A83-174010	18.3	17.9		22.6	17.1	18.2	17.6	16.4
A83-174011	18.1	16.2		22.6	16.2	16.7	18.6	18.4
A83-174017	16.2	13.9		21.6	14.7	15.6	16.0	15.4
A83-174020	16.3	15.1		22.3	14.3	15.3	15.7	15.1
A83-174023	15.0	13.5		19.4	13.3	14.4	14.7	14.5
A83-176004	15.7	14.9		21.3	14.5	14.6	14.3	14.4
A83-176025	14.1	13.3		18.3	13.7	13.1	13.5	12.6
M75-314	17.5	16.2		21.1	15.4	16.9	19.3	16.1
M76-313	16.6	15.2		20.8	15.2	16.1	17.3	15.1
M76-322	16.0	15.4		19.8	14.1	15.3	17.0	14.1
M77-137	16.0	14.8		21.3	15.6	15.3	16.1	13.0
M77-191	17.9	16.5		23.3	16.2	16.4	18.4	16.5
M77-228	17.0	15.9		20.7	15.4	15.9	18.0	16.3
M81-621	13.1	11.9		18.4	11.6	12.5	13.0	11.4

PRELIMINARY TEST I, 1984

Strain	PROTEIN (%) Mean 4 Tests	Corwith, IA	Waseca, MN	Brookings, SD	Arlington, WI	OIL (%) Mean 4 Tests	Corwith, IA	Waseca, MN	Brookings, SD	Arlington, WI
Elgin (I)	38.7	37.2	36.5	40.1	41.0	20.6	21.6	21.4	19.6	19.9
Evans (o)	39.0	37.5	37.8	40.8	40.0	22.5	23.7	23.2	20.8	22.4
Hodgson 78 (I)	39.4	37.8	38.0	39.8	41.9	21.6	22.9	22.4	20.9	20.2
Hardin	39.2	36.8	37.3	40.0	42.5	21.6	23.1	22.7	20.4	20.0
A83-171001	39.2	35.8	37.6	40.8	42.5	21.1	22.9	21.7	20.3	19.3
A83-171015	39.0	36.4	38.6	40.0	41.1	21.0	22.5	21.9	19.6	20.1
A83-172001	39.3	37.7	37.5	39.7	42.1	20.4	21.4	21.1	19.7	19.4
A83-172005	39.7	38.1	39.1	40.6	40.9	20.5	21.4	21.3	19.5	19.9
A83-172007	40.9	39.5	39.7	42.4	42.0	20.4	20.8	21.0	19.4	20.2
A83-172017	40.2	38.9	38.8	41.5	41.5	20.1	20.7	20.8	19.1	19.8
A83-172030	38.7	36.7	37.9	39.4	40.8	20.8	21.8	21.5	19.5	20.5
A83-173019	40.7	39.4	40.0	41.7	41.8	20.7	21.2	21.7	19.7	20.1
A83-174010	40.6	39.6	39.6	41.8	41.2	20.2	20.4	20.5	19.5	20.3
A83-174011	40.5	38.5	39.1	42.2	42.1	20.1	21.2	21.3	18.3	19.5
A83-174017	41.5	40.5	39.8	42.4	43.3	20.1	19.9	20.8	19.4	20.2
A83-174020	40.1	38.6	39.2	41.1	41.6	21.3	21.6	22.0	20.3	21.4
A83-174023	40.4	38.9	39.3	41.8	41.7	20.4	20.7	20.6	19.4	20.7
A83-176004	40.1	38.4	38.5	41.3	42.0	19.9	20.0	20.9	18.9	19.8
A83-176025	41.5	40.6	40.2	43.0	42.2	19.1	19.0	19.6	18.5	19.3
M75-314	40.3	38.4	40.0	41.4	41.4	22.7	23.6	23.0	21.2	23.0
M76-313	39.9	37.0	39.2	41.6	41.9	21.2	21.6	22.2	20.2	20.8
M76-322	39.3	37.3	38.6	39.7	41.5	22.0	23.4	22.6	20.6	21.4
M77-137	39.8	37.9	39.6	40.4	41.4	21.4	22.1	21.7	20.5	21.2
M77-191	40.5	38.1	40.0	41.8	42.2	20.8	22.1	21.5	19.1	20.5
M77-228	40.5	39.8	38.7	41.7	41.7	19.9	20.2	20.2	19.5	19.8
M81-621	40.2	38.6	38.8	41.0	42.3	21.1	22.0	21.8	19.9	20.7

UNIFORM TEST II, 1984

	Strain	Parentage	Previous Testing*	Generation Composited
1.	BSR 201	Pride B-216 x AX 901-40-2	4	F_4
2.	Century	Calland x Bonus	7	F_6
3.	Elgin (II)	Ap6(2YT)(F_4) C1	3	F_4
4.	Hardin (I)	Corsoy[3] x Cutler 71	1	F_3
5.	Gnome	Williams x Ransom	3	F_4
6.	HC Gnome Rps 1-K	Gnome[6] x Williams 82	-	BC_5 F_3
7.	Pella (III)	L66L-137 x Calland	5	F_4
8.	A80-149020	L69U40-16-4 x A76-304020	1	F_4
9.	A81-153003	A76-202015 x Century	1	F_4
10.	A81-155014	A76-202015 x A76-304020	1	F_4
11.	A81-257031	Schechinger S48 x Land O'Lakes Max	1	F_4
12.	A82-161035	Pride B-216 x A77-211021	PT IIA	F_4
13.	A82-162023	NKS1492 x Tri-Valley Charger	PT I	F_4
14.	A82-263010	A77-211021 x Pella	PT IIA	F_4
15.	A82-263034	Pride B-216 x A77-211021	PT IIA	F_4
16.	A82-264016	Asgrow A3585 x Tri-Valley Charger	PT IIA	F_4
17.	A82-267015	AP6M TW 2YT (F_4) C2	PT IIA	F_4
18.	C1625	Century x Hodgson	PT IIB	F_5
19.	C1627	Century x Hodgson	PT IIB	F_5
20.	C1628	Century x Hodgson	PT IIB	F_5
21.	C1636	Union x Century	PT IIB	F_5
22.	C1638	Century x Wells II	PT IIB	F_5
23.	HC78-523	Harcor x Elf	2	F_5
24.	HW8185 (Century 84)	Century[5] x Williams 82	2	BC_4 F_3
25.	HW8221	A76-202015 x (Tracy x Williams)	PT IIB	F_6
26.	HW8223	(Cumberland x Century) x (A76-202015 x A76-304005)	PT IIB	F_5
27.	HW8225	Hobbit EMS Isoline	PT IIB	M_3
28.	LN78-1136 (Hack)	L70T-543G x K1028	2	F_5
29.	LN80-7532	Century x A76-304020	PT IIA	F_4

*Number of years in test or name of 1983 test

UNIFORM TEST II, 1984

Strain	Descriptive Code	Descriptive and Other Data: Chlorosis Score, Ames	Emergence Score, Ames	Shattering Score, Manhattan	BSR, Ames: Plant N %	BSR, Ames: Stem N %
BSR 201	WGBrDYBf I	5.0	2	-	70	20.6
Century	PTBrSYBI I	2.7	5	2.0	90	38.6
Elgin (II)	PTBrSYBI I	3.3	4	-	60	26.6
Hardin (I)	PGBrIYY I	3.7	1	-	45	9.5
Gnome	PTT SYBI D	3.7	1	2.0	80	63.4
HC Gnome Rps 1-K	PTT SYBI D	4.7	1	1.0	90	43.5
Pella (III)	PTT SYBI I	5.0	3	1.0	100	53.9
A80-149020	PGT IYIb I	3.2	1	2.0	-	--
A81-153003	PTBrDYBI I	4.2	1	1.0	-	--
A81-155014	PTBrIYBI I	4.2	1	2.0	-	--
A81-257031	PTBrIYGr I	4.0	2	-	-	--
A82-161035	WGBrDYBf I	4.2	2	4.0	-	--
A82-162023	PTT DYBr I	5.0	1	2.0	-	--
A82-263010	WGBrIYBf I	4.2	4	1.0	-	--
A82-263034	WGBrIYBf I	4.3	4	2.0	-	--
A82-264016	PTBrIYBI I	4.7	1	3.0	-	--
A82-267015	WGBrIYY I	4.0	2	2.0	-	--
C1625	PGBrDYBf I	3.8	4	1.0	-	--
C1627	PGBrDYIb I	2.8	2	-	-	--
C1628	PGBrDYBf I	3.7	4	2.0	-	--
C1636	WTT SYBI I	4.2	5	2.0	-	--
C1638	PGBrDYIb I	3.3	4	3.0	-	--
HC78-523	PTT IYBI D	3.8	4	1.0	-	--
HW8185 Century 84	PTBrSYBI I	2.7	2	3.0	-	--
HW8221	WTT SYBI I	4.3	1	1.0	-	--
HW8223	PGBrSYIb I	3.8	4	-	-	--
HW8225	WTT SYBI D	3.5	2	1.0	-	--
LN78-1136 Hack	WGT SYBf I	4.3	2	1.0	-	--
LN80-7532	PTBrSYBI I	4.7	1	3.0	30	13.9

UNIFORM TEST II, 1984

Disease Data

Strain	BTS Ames a Score	FE Lafayette Race 2 Score	PR Ames Race 4 Reaction	PR Lafayette Race 1 Reaction	PR Hoytville Stand Score	PR Vickery Tolerance Score	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a %	GERM %
BSR 201	4	2	R	R	2.1	3.3	37	7	4E	77
Century	3	4	S	R	3.4	3.5	34	1	3E	95
Elgin (II)	4	1	S	S	4.9	4.3	51	1	5E	86
Hardin (I)	3	1	S	R	4.2	3.9	76	2	5E	88
Gnome	2	1	S	S	4.7	3.3	10	1	2E	87
HC Gnome Rps 1-K	2	1	R	R	1.7	2.4	12	3	1	98
Pella (III)	4	1	S	R	4.7	2.8	48	43	5E	45
A80-149020	3	1	S	R	4.4	3.1	37	16	4E	71
A81-153003	3	2	S	R	2.9	3.3	22	22	-	74
A81-155014	4	3	S	S	1.8	3.0	31	11	3E	73
A81-257031	4	1	S	S	3.9	3.1	21	13	5E	67
A82-161035	3	4	S	R	2.4	3.5	48	24	3E	62
A82-162023	5	3	R	R	4.2	3.4	31	20	4E	67
A82-263010	4	5	S	R	4.3	3.4	75	5	4E	76
A82-263034	4	5	S	S	4.0	4.4	30	10	3E	80
A82-264016	4	2	S	S	4.5	3.8	13	4	5E	93
A82-267015	3	5	S	H	4.4	3.8	6	13	1	75
C1625	3	5	S	S	3.6	3.6	19	4	5E	91
C1627	3	5	S	S	4.1	4.1	35	0	5E	87
C1628	3	5	S	S	3.5	4.4	40	7	3E	87
C1636	3	4	S	R	3.7	3.5	43	8	5E	85
C1638	3	1	S	R	3.2	4.3	58	3	1	85
HC78-523	3	4	S	R	4.9	4.4	20	2	5E	93
HW8185 Century 84	3	5	R	R	2.3	2.5	33	2	3E	91
HW8221	3	5	R	R	1.4	2.6	12	1	5E	79
HW8223	3	5	S	R	3.4	2.8	27	3	2E	94
HW8225	3	2	S	S	4.5	3.4	2	10	1	73
LN78-1136 Hack	3	4	S	R	4.6	3.3	39	7	5E	93
LN80-7532	3	4	S	R	4.4	3.5	12	3	4E	81

UNIFORM TEST II, 1984

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	20	20	20	21	21	18	19	5	5
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
BSR 201	43.4	21	+1.6	2.2	33	1.6	15.1	40.9	20.6
Century	45.2	10	+3.3	1.7	36	1.7	17.8	41.0	20.9
Elgin (II)	46.0	5	9-20.6*	1.9	32	1.7	16.4	38.0	21.7
Hardin (I)	44.5	14	-4.1	1.7	33	1.7	15.6	39.4	22.3
Gnome	40.4	29	+6.2	1.6	23	1.7	15.1	40.9	20.9
HC Gnome Rps 1-K	41.3	28	+6.8	1.6	23	1.8	15.1	41.7	20.6
Pella (III)	44.0	17	+6.3	1.7	36	2.1	18.7	38.9	22.0
A80-149020	43.8	20	-2.5	1.5	33	1.8	16.6	39.0	21.4
A81-153003	43.9	19	+0.3	1.8	33	1.7	17.3	39.6	21.5
A81-155014	44.7	13	-0.9	1.8	34	1.9	19.1	37.4	22.4
A81-257031	46.7	1	+3.3	2.0	36	2.0	17.4	40.6	21.2
A82-161035	46.0	5	+2.1	2.1	36	1.8	14.4	39.5	21.4
A82-162023	44.4	15	+1.0	1.4	34	2.0	19.0	38.9	22.2
A82-263010	46.0	5	+4.4	1.8	35	2.0	19.4	39.4	21.0
A82-263034	45.2	10	+3.9	1.8	33	2.0	17.3	39.9	21.9
A82-264016	46.1	4	+4.4	1.8	35	1.9	14.3	39.9	21.7
A82-267015	46.6	2	+1.7	2.0	36	1.9	16.2	40.5	21.4
C1625	44.1	16	+2.8	1.6	35	1.8	17.4	39.7	22.0
C1627	46.4	3	+4.2	2.0	36	1.9	17.1	40.1	21.8
C1628	45.5	8	+5.6	2.1	35	2.1	17.8	40.9	20.5
C1636	44.8	12	+5.1	1.8	36	1.8	18.3	40.0	21.9
C1638	43.1	24	+3.7	1.8	38	1.9	17.0	39.4	22.2
HC78-523	42.4	26	+3.4	1.5	23	2.0	13.8	40.3	21.3
HW8185 Century 84	43.0	25	+2.6	1.5	34	1.7	17.6	42.1	20.6
HW8221	43.2	22	+5.9	1.7	32	1.8	17.4	40.4	20.8
HW8223	45.5	8	+5.2	1.9	37	1.8	18.0	39.5	22.1
HW8225	42.3	27	+5.4	1.3	23	1.5	14.4	38.5	22.2
LN78-1136 Hack	44.0	17	+3.1	1.3	31	1.8	16.8	38.5	22.1
LN80-7532	43.2	22	+3.9	1.7	35	1.9	16.4	40.9	21.2

*123 days after planting

The strain A81-257031 was the highest yielding strain in this test in 1984 and exceeded the yield of Elgin by 0.6 bushels over the past two years. The strain is susceptible to phytophthora root rot and had a fairly high iron chlorosis score. The determinate strain HC78-523 has consistently averaged about 2.5 bushels higher than Gnome in seed yield and matures within the range of Group II varieties. The strain apparently has the $\underline{Rps}_1$ gene for resistance to phytophthora rot.

UNIFORM TEST II, 1983

1983-1984 2-Year Means

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	40 bu/a	40 No.	40 Date	43 Score	43 In.	37 Score	40 g/100	10 %	10 %
BSR 201	43.7	11	+0.2	2.0	32	1.8	14.7	40.6	21.4
Century	45.2	6	+2.2	1.6	34	1.8	17.5	40.8	21.7
Century 84	43.8	10	+1.8	1.4	32	1.9	17.4	41.9	21.4
Elgin (II)	46.0	2	9-22.0*	1.8	32	1.9	15.4	37.6	22.7
Gnome	40.4	13	+5.7	1.5	22	1.8	14.8	40.8	21.6
Hack	45.4	4	+1.6	1.4	30	1.8	16.5	38.4	22.8
Hardin (I)	44.4	8	-4.0	1.8	34	1.9	14.7	38.8	22.9
Pella (III)	44.4	8	+5.7	1.6	37	2.0	18.3	38.8	22.6
A80-149020	45.2	6	-3.8	1.5	32	2.1	16.1	38.8	22.0
A81-153003	45.4	4	-0.8	1.7	32	1.9	16.8	39.5	22.4
A81-155014	45.9	3	-0.9	1.7	33	2.0	18.8	37.6	23.2
A81-257031	46.8	1	+2.4	1.9	35	2.2	17.2	40.5	22.0
HC78-523	43.2	12	+3.2	1.4	22	1.9	13.6	38.2	22.2

*121 days after planting

1982-1984 3-Year Means

No. of Tests	64	64	63	67	67	58	63	14	14
BSR 201	44.5	7	+0.5	2.1	33	1.7	14.8	40.5	20.4
Century	45.8	3	+2.5	1.6	35	1.8	17.7	40.7	20.7
Century 84	45.2	5	+1.9	1.4	33	1.8	17.4	41.7	20.3
Elgin (II)	46.8	1	9-21.3*	1.8	31	1.9	15.6	37.6	21.6
Gnome	42.1	8	+5.9	1.6	23	1.7	14.9	40.8	20.6
Hack	46.5	2	+1.4	1.3	32	1.8	16.5	38.4	21.8
Pella (III)	45.7	4	+5.5	1.6	37	2.0	18.5	38.5	21.6
HC78-523	44.8	6	+3.5	1.6	24	2.0	13.4	38.8	21.0

*122 days after planting

UNIFORM TEST II, 1984

Yield (bu/a)

Strain	Mean 20 Tests	Ames, IA	Marshalltown, IA	DeKalb, IL	Pontiac, IL	Urbana, IL	Greenfield, IN
BSR 201	43.4	40.1	44.4	55.6	27.3	47.9	39.2
Century	45.2	41.1	36.1	61.3	26.3	55.9	47.9
Elgin (II)	46.0	41.7	39.3	56.3	27.6	54.8	51.2
Hardin (I)	44.5	42.0	43.5	54.5	25.8	46.7	31.7
Gnome	40.4	35.6	34.9	61.0	21.9	51.7	37.4
HC Gnome Rps 1-K	41.3	36.8	34.9	62.8	22.0	44.2	39.3
Pella (III)	44.0	38.3	39.7	68.1	24.2	54.4	47.3
A81-149020	43.8	37.8	42.8	56.4	25.4	54.7	44.7
A81-153003	43.9	40.3	35.6	62.9	22.9	52.8	40.5
A81-155014	44.7	41.7	39.3	55.5	27.9	53.7	44.6
A81-257031	46.7	39.9	42.7	60.6	27.3	67.0	52.5
A82-161035	46.0	40.0	44.4	66.0	24.9	59.0	54.6
A82-162023	44.4	43.9	39.6	59.1	28.0	61.6	42.1
A82-263010	46.0	43.1	36.9	60.7	26.0	58.9	49.8
A82-263034	45.2	46.2	40.0	62.0	25.4	55.5	46.4
A82-264016	46.1	37.3	37.9	62.0	24.3	59.2	50.0
A82-267015	46.6	40.8	41.7	57.8	25.8	58.9	52.1
C1625	44.1	42.4	39.9	61.7	25.7	63.2	32.6
C1627	46.4	42.6	39.1	66.0	27.5	65.4	51.7
C1628	45.5	43.0	41.2	60.9	24.2	65.1	51.2
C1636	44.8	43.0	39.3	62.7	25.3	63.5	44.3
C1638	43.1	41.7	37.4	59.7	27.0	56.2	44.7
HC78-523	42.4	42.0	42.3	53.1	24.2	49.8	35.6
HW8185 Century 84	43.0	41.3	34.8	59.7	23.0	51.2	43.5
HW8221	43.2	38.3	36.0	61.4	28.0	54.1	49.7
HW8223	45.5	42.2	42.6	64.2	25.1	54.5	52.5
HW8225	42.3	38.7	37.5	62.6	23.7	53.6	42.3
LN78-1136 Hack	44.0	42.1	40.7	58.5	22.9	50.5	46.1
LN80-7532	43.2	38.8	40.1	57.7	23.4	56.5	43.8
C.V. (%)		6.2	7.0	3.6	11.4	11.4	14.0
L.S.D. (5%)		3.6	3.9	3.5	4.6	10.2	10.2
Row sp. (in.)		27	27	30	30	30	30
Rows/plot		4	4	4	4	4	3
Reps		4	4	3	3	3	3

UNIFORM TEST II, 1984

Yield (bu/a)

Lafayette, IN	Lanawee, MI	Gratiot, MI	Lamberton, MN	Waseca, MN	Mead, NE	Adelphia, NJ	Hoytville,* OH
43.1	51.5	40.2	46.1	42.8	45.4	42.3	38.0
50.5	56.1	42.9	43.9	35.5	47.4	35.3	25.5
49.7	54.2	45.2	51.4	39.7	48.9	37.8	7.7
46.6	57.0	48.2	53.0	46.5	35.7	38.6	13.5
45.1	54.7	32.7	34.5	28.0	45.3	37.0	8.2
43.4	53.9	34.4	41.5	33.7	45.7	34.2	38.9
50.5	51.2	43.0	40.5	35.6	45.5	30.3	11.3
42.4	57.1	42.4	47.0	37.9	39.6	36.0	15.1
44.7	56.4	48.0	50.1	37.9	43.7	33.2	30.7
43.7	55.5	38.1	44.7	43.8	44.0	34.5	33.4
53.0	56.9	39.5	41.3	36.7	47.3	41.5	15.1
45.3	55.3	42.0	49.1	38.2	46.3	27.0	27.4
46.7	55.2	44.4	45.3	39.1	43.8	31.8	19.6
53.3	53.8	47.3	47.6	37.4	46.6	33.5	19.7
45.8	52.1	40.9	45.8	39.6	49.3	40.5	14.4
49.6	57.6	44.8	46.8	40.8	51.7	36.3	12.7
51.5	51.0	42.0	48.3	43.3	48.4	36.2	12.9
46.9	52.7	38.6	50.3	40.9	40.3	35.4	20.5
50.6	53.4	39.3	49.1	40.6	46.5	36.1	24.0
47.7	54.8	37.3	52.3	37.6	44.4	36.8	27.8
45.1	53.0	38.5	44.2	39.0	46.7	40.7	22.0
48.5	51.4	36.4	42.9	37.1	41.3	31.5	28.1
37.5	54.3	41.6	45.5	41.2	38.4	41.1	5.2
49.3	50.8	42.4	44.1	37.4	43.6	33.9	39.8
47.8	61.0	36.7	39.4	39.7	37.2	34.3	50.1
50.8	58.0	42.0	43.5	38.6	46.1	36.4	31.7
49.7	55.0	38.8	44.1	34.3	46.1	33.7	10.4
43.5	56.4	45.8	49.2	42.2	40.9	37.0	12.3
42.9	57.9	38.6	43.3	38.7	43.2	33.1	13.6
8.7	7.7	12.8	9.4	11.4	6.8	7.3	31.8
6.7	5.9	7.4	7.0	7.2	4.9	5.2	11.3
24	20	20	30	30	30	30	30
4	4	4	4	4	4	4	4
3	4	4	3	3	3	3	3

*Not Included In mean

UNIFORM TEST II, 1984

Yield (bu/a)

Strain	Wooster, OH	Harrow, Ont	Ridgetown, Ont	State College, PA	Brookings, SD	Centerville, SD	Arlington, WI
BSR 201	36.2	64.9	45.1	33.8	42.1	44.9	34.9
Century	45.1	66.2	51.0	42.7	39.9	44.6	35.2
Elgin (II)	37.3	63.2	51.3	46.2	38.3	44.8	40.1
Hardin (I)	30.9	65.9	59.9	44.8	39.4	40.6	37.8
Gnome	41.9	57.8	50.4	39.9	31.3	42.3	23.8
HC Gnome Rps 1-K	41.9	62.6	47.2	41.1	39.9	36.0	29.6
Pella (III)	40.4	64.6	49.7	44.2	35.4	42.8	34.6
A80-149020	40.0	61.2	52.0	45.7	40.8	46.6	25.9
A81-153003	31.7	59.8	47.6	46.7	39.9	45.9	37.1
A81-155014	35.5	57.3	58.8	49.9	40.8	44.6	39.5
A81-257031	36.3	69.9	50.6	48.3	38.9	49.7	33.5
A82-161035	40.6	68.7	56.0	49.0	41.4	37.0	35.0
A82-162023	31.3	58.3	49.6	46.3	37.7	46.9	38.0
A82-263010	39.6	64.4	46.7	52.1	38.7	46.1	38.4
A82-263034	39.8	69.9	53.5	43.9	32.9	42.9	31.5
A82-264016	43.8	59.4	52.8	47.2	46.4	43.4	31.5
A82-267015	44.8	69.9	50.3	49.6	45.5	40.4	33.9
C1625	41.5	57.7	48.3	44.0	41.4	45.1	32.4
C1627	45.5	67.5	52.6	45.2	38.2	30.9	39.4
C1628	41.0	67.1	47.3	46.4	31.6	42.6	36.6
C1636	40.5	68.9	53.4	42.6	31.1	46.1	27.3
C1638	33.1	66.9	47.0	45.8	44.2	34.9	34.5
HC78-523	41.7	62.4	56.4	38.0	34.6	35.0	32.5
HW8185 Century 84	37.3	63.5	53.5	44.8	39.1	37.4	29.8
HW8221	37.5	64.1	49.2	41.0	38.3	40.2	29.1
HW8223	40.1	64.5	52.3	47.0	35.2	39.4	35.7
HW8225	37.0	57.6	46.8	39.9	36.8	40.2	27.8
LN78-1136 Hack	29.0	68.9	49.0	42.4	36.5	40.5	37.6
LN80-7532	40.1	63.8	56.2	43.7	27.2	39.4	36.4
C.V. (%)	13.5	10.1	8.9	8.2	18.8	12.1	16.9
L.S.D. (5%)	8.5	NS	8.3	6.0	NS	8.2	9.3
Row sp. (in.)	30	23.6	24	24	30	30	30
Rows/plot	4	4	4	4	4	4	4
Reps	3	4	3	3	3	3	3

UNIFORM TEST II, 1984

Yield Rank

Strain	Mean 20 Tests	Ames, IA	Marshalltown, IA	DeKalb, IL	Pontiac, IL	Urbana, IL	Greenfield, IN
BSR 201	21	19	1	26	6	27	25
Century	10	16	24	13	9	13	11
Elgin (II)	5	12	16	25	4	15	6
Hardin (I)	14	10	3	28	11	28	29
Gnome	9	29	27	14	29	23	26
HC Gnome Rps 1-K	28	28	27	6	28	29	24
Pella (III)	17	24	14	1	20	18	12
A81-149020	20	26	4	24	14	16	15
A81-153003	19	18	26	5	27	22	23
A81-155014	13	12	16	27	3	20	17
A81-257031	1	21	5	17	6	1	2
A82-161035	5	20	1	2	18	8	1
A82-162023	15	2	15	20	1	6	22
A82-263010	5	3	23	16	10	9	9
A82-263034	10	1	12	9	14	14	13
A82-264016	4	27	20	9	19	7	8
A82-267015	2	17	8	22	11	9	4
C1625	16	7	13	11	13	5	28
C1627	3	6	19	2	5	2	5
C1628	8	4	9	15	20	3	6
C1636	12	4	16	7	16	4	18
C1638	24	12	22	18	8	12	15
HC78-523	26	10	7	29	20	26	27
HW8185 Century 84	25	15	29	18	25	24	20
HW8221	22	24	25	12	1	19	10
HW8223	8	8	6	4	17	17	2
HW8225	27	23	21	8	23	21	21
LN78-1136 Hack	17	9	10	21	26	25	14
LN80-7532	22	22	11	23	24	11	19

UNIFORM TEST II, 1984

Yield Rank

Strain	Lafayette, IN	Lanawee, MI	Gratiot, MI	Lamberton, MN	Waseca, MN	Mead, NE	Adelphia, NJ	Hoytville, OH
BSR 201	26	25	17	13	4	15	1	4
Century	6	10	9	21	26	5	17	11
Elgin (II)	8	18	5	3	10	3	7	28
Hardin (I)	17	6	1	1	1	29	6	21
Gnome	20	16	29	29	29	16	8	27
HC Gnome Rps 1-K	25	19	28	25	28	13	20	3
Pella (III)	6	27	8	27	25	14	28	25
A80-149020	28	5	10	11	18	26	15	17
A81-153003	22	8	2	5	18	20	24	7
A81-155014	23	11	24	17	2	18	18	5
A81-257031	2	7	18	26	24	6	2	17
A82-161035	19	13	12	7	17	10	29	10
A82-162023	16	14	7	16	13	19	26	16
A82-263010	1	20	3	10	21	8	23	15
A82-263034	18	24	16	14	12	2	5	19
A82-264016	10	4	6	12	8	1	12	23
A82-267015	3	28	12	9	3	4	13	22
C1625	15	23	21	4	7	25	16	14
C1627	5	21	19	7	9	9	14	12
C1628	14	15	25	2	20	17	10	9
C1636	20	22	23	18	14	7	4	13
C1638	12	26	27	24	23	23	27	8
HC78-523	29	17	15	15	6	27	3	29
HW8185 Century 84	11	29	10	19	21	21	21	2
HW8221	13	1	26	28	10	28	19	1
HW8223	4	2	12	22	16	11	11	6
HW8225	8	11	20	19	27	11	22	26
LN78-1136 Hack	23	8	4	6	5	24	8	24
LN80-7532	27	3	21	23	15	22	25	20

UNIFORM TEST II, 1984

Yield Rank

Wooster, OH	Harrow, Ont	Ridgetown, Ont	State College, PA	Brookings, SD	Centerville, SD	Arlington, WI
23	11	29	29	4	8	14
2	9	14	21	9	10	12
19	18	13	11	16	9	1
28	10	1	15	12	17	6
5	26	16	26	27	16	29
5	20	25	24	9	26	24
12	12	18	17	22	14	14
15	22	12	13	7	3	28
26	23	23	8	9	6	8
24	29	2	2	7	10	2
22	19	15	5	14	1	18
10	5	5	4	5	25	13
27	25	19	10	19	2	5
17	14	28	1	15	4	4
16	1	6	19	25	13	21
4	24	9	6	1	12	21
3	1	17	3	2	19	17
8	27	22	18	5	7	20
1	6	10	14	18	29	3
9	7	24	9	26	15	9
11	3	8	22	28	4	27
25	8	26	12	3	28	16
7	21	3	28	24	27	19
19	17	6	15	13	24	23
18	15	20	25	16	20	25
13	13	11	7	23	22	11
21	28	27	26	20	20	26
29	3	21	23	21	18	7
13	16	4	20	29	22	10

UNIFORM TEST II, 1984

Maturity (date)

Strain	Mean 20 Tests	Marshalltown, IA	DeKalb, IL	Pontiac, IL	Urbana, IL	Greenfield, IN
BSR 201	+1.6	+4	+5	+1	-2	+2
Century	+3.3	+3	+7	+1	+4	+5
Elgin (II)	9-20.6	9/12	9/21	9/14	9/5	9/17
Hardin (I)	-4.1	-8	-4	-5	-4	-1
Gnome	+6.2	+8	+9	+7	+5	+8
HC Gnome Rps 1-K	+6.8	+8	+9	+7	+5	+8
Pella (III)	+6.3	+8	+8	+5	+6	+13
A80-149020	-2.5	-3	-2	-3	-4	-1
A81-153003	+0.3	0	+5	0	-2	+2
A81-155014	-0.9	-2	+1	+1	-2	+1
A81-257031	+3.3	+4	+4	+4	+5	+4
A82-161035	+2.1	+4	+7	-1	+3	+3
A82-162023	+1.0	+2	+3	+1	0	+4
A82-263010	+4.4	+4	+6	+1	+4	+7
A82-263034	+3.9	+5	+7	+1	+4	+7
A82-264016	+4.4	+6	+6	+1	+4	+7
A82-267015	+1.7	0	+3	+1	0	+3
C1625	+2.8	+4	+6	0	+5	+7
C1627	+4.2	+4	+8	+3	+4	+5
C1628	+5.6	+8	+9	+1	+4	+7
C1636	+5.1	+6	+7	+3	+6	+9
C1638	+3.7	+6	+7	+2	+2	+5
HC78-523	+3.4	+4	+5	+3	+4	+5
HW8185 Century 84	+2.6	+3	+5	0	+3	+4
HW8221	+5.9	+8	+6	+6	+5	+7
HW8223	+5.2	+7	+8	+3	+4	+5
HW8225	+5.4	+6	+9	+4	+8	+8
LN78-1136 Hack	+3.1	+1	+6	+1	+3	+5
LN80-7532	+3.9	+6	+6	+1	+1	+5
Date planted	5-21	5/17	5/8	6/6	5/7	6/2
Days to mature	122	118	136	100	121	107

UNIFORM TEST II, 1984

Maturity (date)

Lafayette, IN	Lanawee, MI	Gratiot, MI	Lamberton, MN	Waseca, MN	Mead, NE	Adelphia, NJ	Hoytville, OH
+5	+6	+2	+2	+2	+2	+1	-2
+4	+6	+5	+4	+2	+5	+1	0
8/31	9-18	9-29	9-22	9-18	9-20	9-13	9-24
-2	+1	-3	-8	-5	0	-3	-8
+10	+7	+5	+9	+8	+5	+9	+7
+10	+8	+6	+10	+10	+7	+7	+7
+8	+8	+4	+7	+5	+10	+2	+9
-4	+1	0	-3	-3	-1	-3	-3
+2	+4	+3	-2	0	+2	-1	-3
0	+4	0	0	-1	0	-2	-4
+6	+7	+3	0	+2	+2	+5	+6
+2	+6	+3	+3	+2	+4	+2	0
+2	+7	+3	0	+1	0	0	0
+5	+6	+3	+3	+2	+11	+2	+3
+5	+6	+3	+2	+3	+6	+2	+2
+5	+8	+3	+8	+3	+9	+4	+4
+4	+5	+2	+2	+2	+1	+2	0
+4	+5	+3	+2	+2	+3	-1	+3
+6	+8	+4	+1	+2	+5	+2	+4
+6	+8	+5	+5	+6	+7	0	+3
+5	+8	+4	+5	+3	+10	+4	+1
+6	+7	+4	+4	+3	+4	+2	+2
+4	+7	+4	+4	+2	+2	+9	0
+7	+6	+3	+2	+1	+3	+2	-1
+7	+7	+5	+8	+9	+10	+8	+1
+7	+8	+4	+5	+3	+7	+2	+6
+4	+6	+4	+6	+8	+10	+9	+3
+3	+6	+3	+2	+1	+6	+4	+4
+5	+8	+4	+2	+3	+4	+1	+3
5/10	5-10	5-21	5-17	5-15	6-1	5-25	5-15
113	132	131	128	126	111	111	132

UNIFORM TEST II, 1984

Maturity (date)

Strain	Wooster, OH	Harrow, Ont	Ridgetown, Ont	State College, PA	Brookings, SD	Centerville, SD	Arlington, WI
BSR 201	0	+2	-2	-1	+1	0	+4
Century	+4	+2	+4	0	+5	0	+4
Elgin (II)	9-15	10-1	10-7	10-5	10-8	9-28	9-16
Hardin (I)	-3	-2	-2	-5	-6	-11	-3
Gnome	+5	+5	+4	+2	+2	+6	+3
HC Gnome Rps 1-K	+7	+6	+2	+4	+3	+4	+7
Pella (III)	+7	+5	0	+2	+8	+5	+5
A80-149020	+2	-5	-2	-9	-1	-5	-1
A81-153003	+1	-1	-2	-1	0	-3	+2
A81-155014	-2	+2	-2	-5	-3	-3	0
A81-257031	+4	+4	0	+2	0	0	+3
A82-161035	+1	+2	-1	+2	0	0	0
A82-162023	0	-1	-1	-4	+2	-2	+3
A82-263010	+5	+6	+9	+3	+4	+1	+3
A82-263034	+2	+5	+4	+4	+6	+1	+3
A82-264016	+2	+4	-1	+4	+5	+2	+4
A82-267015	0	+4	+2	+3	0	-4	+5
C1625	+6	+2	+2	+1	+1	-1	+2
C1627	+7	+4	+4	+4	+5	+1	+3
C1628	+9	+6	+9	+4	+6	+2	+7
C1636	+9	+4	+4	+2	+6	+1	+5
C1638	+9	+3	-1	-1	+3	+1	+5
HC78-523	+3	+4	-1	-2	0	0	+6
HW8185 Century 84	+2	+1	0	+1	+5	+1	+4
HW8221	+9	+5	+2	+2	+4	+3	+6
HW8223	+4	+5	+6	+5	+6	+3	+6
HW8225	+9	+6	0	0	+1	+2	+5
LN78-1136 Hack	+5	+2	+2	+2	+4	0	+1
LN80-7532	+3	+2	+7	+4	+7	0	+5
Date planted	5-15	6-5	6-7	6-2	5-23	5-24	5/12
Days to mature	123	118	122	125	138	127	127

UNIFORM TEST II, 1984

Lodging (score)

Strain	Mean 21 Tests	Ames, IA	Marshalltown, IA	DeKalb, IL	Pontiac, IL	Urbana, IL	Greenfield, IN
BSR 201	2.2	1.4	2.8	2.0	1.5	1.0	1.8
Century	1.7	1.3	3.1	1.7	1.0	1.0	1.0
Elgin (II)	1.9	1.4	3.8	2.3	1.2	1.0	1.0
Hardin (I)	1.7	1.5	2.8	1.7	1.3	1.0	1.3
Gnome	1.6	1.3	1.4	1.5	1.0	1.0	1.0
HC Gnome Rps 1-K	1.6	1.3	1.4	1.5	1.0	1.0	1.0
Pella (III)	1.7	1.5	3.1	2.0	1.2	1.0	1.0
A80-149020	1.5	1.4	2.0	1.7	1.3	1.0	1.0
A81-153003	1.8	1.4	3.2	1.8	1.0	1.0	1.2
A81-155014	1.8	1.3	2.5	2.0	1.0	1.0	1.5
A81-257031	2.0	1.4	3.0	2.2	1.3	1.0	1.2
A82-161035	2.1	1.7	3.6	2.2	1.5	1.0	1.5
A82-162023	1.4	1.5	3.0	1.8	1.0	1.0	1.0
A82-263010	1.8	1.3	3.3	2.0	1.0	1.0	1.0
A82-263034	1.8	1.6	3.1	2.0	1.0	1.0	1.0
A82-264016	1.8	1.4	2.5	2.0	1.2	1.0	1.0
A82-267015	2.0	1.4	2.7	2.5	1.0	1.0	1.5
C1625	1.6	1.6	3.6	1.8	1.0	1.0	1.0
C1627	2.0	1.7	3.2	2.3	1.5	1.0	1.3
C1628	2.1	1.4	3.8	2.2	1.0	1.0	1.2
C1636	1.8	1.6	2.7	1.7	1.3	1.0	1.0
C1638	1.8	1.5	3.2	2.2	1.2	1.0	1.0
HC78-523	1.5	1.4	1.4	1.5	1.5	1.0	1.0
HW8185 Century 84	1.5	1.4	2.7	1.7	1.0	1.0	1.0
HW8221	1.7	1.4	3.3	1.5	1.3	1.0	1.0
HW8223	1.9	1.5	3.2	1.8	1.2	1.0	1.0
HW8225	1.3	1.3	1.3	1.5	1.0	1.0	1.0
LN78-1136 Hack	1.3	1.3	2.6	1.5	1.0	1.0	1.0
LN80-7532	1.7	1.5	2.6	1.8	1.0	1.0	1.2

UNIFORM TEST II, 1984

Lodging (score)

Strain	Lafayette, IN	Lanawee, MI	Gratiot, MI	Lamberton, MN	Waseca, MN	Mead, NE	Adelphia, NJ	Hoytville, OH
BSR 201	1.2	3.7	4.0	3.0	2.7	1.2	2.0	1.6
Century	1.2	2.2	2.3	2.3	2.3	1.0	1.0	1.6
Elgin (II)	1.2	4.3	3.3	3.3	2.3	1.0	1.0	1.1
Hardin (I)	1.3	2.0	2.3	1.3	2.7	1.0	2.0	1.3
Gnome	1.0	2.2	2.5	1.3	3.3	1.0	1.0	1.0
HC Gnome Rps 1-K	1.0	1.2	1.3	1.7	3.7	1.0	1.0	1.1
Pella (III)	1.3	2.0	1.8	2.7	2.7	1.0	1.0	1.1
A80-149020	1.0	2.2	2.5	2.7	2.0	1.0	1.0	1.2
A81-153003	1.3	3.0	2.8	3.0	2.3	1.0	1.0	1.6
A81-155014	1.2	3.2	3.0	3.0	2.0	1.0	1.0	1.2
A81-257031	1.3	3.5	4.0	3.7	2.7	1.0	2.0	1.1
A82-161035	1.5	3.5	3.0	3.7	3.7	1.2	2.0	1.1
A82-162023	1.0	2.2	1.8	3.0	2.7	1.0	1.0	1.1
A82-263010	1.2	2.7	2.5	3.0	2.7	1.2	2.0	1.2
A82-263034	1.2	2.2	3.0	2.7	2.3	1.0	2.0	1.2
A82-264016	1.2	3.0	2.0	3.3	2.7	1.3	1.0	1.4
A82-267015	1.2	3.2	3.3	3.3	3.0	1.0	2.0	1.1
C1625	1.0	2.0	1.8	3.0	2.0	1.0	1.0	1.2
C1627	1.5	2.5	3.0	3.0	3.0	1.3	2.0	1.3
C1628	1.0	3.5	3.5	3.7	2.7	1.2	2.0	1.2
C1636	1.2	2.0	2.0	3.0	2.3	1.2	1.0	1.2
C1638	1.0	2.2	2.3	3.3	2.3	1.0	1.0	1.1
HC78-523	1.0	2.0	1.0	1.0	2.7	1.0	1.0	1.1
HW8185 Century 84	1.0	1.5	2.0	1.3	2.0	1.0	1.0	1.2
HW8221	1.3	3.2	2.0	3.3	2.0	1.0	1.0	1.2
HW8223	1.5	3.2	2.8	3.0	2.7	1.0	1.0	1.1
HW8225	1.0	1.7	1.5	1.0	2.0	1.0	1.0	1.0
LN78-1136 Hack	1.0	1.7	1.8	1.7	2.0	1.0	1.0	1.1
LN80-7532	1.0	2.5	2.5	3.0	2.7	1.0	2.0	1.1

UNIFORM TEST II, 1984

Lodging (score)

Wooster, OH	Harrow, Ont	Ridgetown, Ont	State College, PA	Brookings, SD	Centerville, SD	Arlington, WI
1.3	3.0	3.0	1.3	3.3	1.3	3.0
1.5	1.0	3.5	1.0	2.0	1.0	2.2
1.5	1.0	3.5	1.0	1.7	1.0	1.8
1.6	2.0	3.0	1.3	1.0	1.0	2.5
1.3	2.0	2.5	5.0	1.0	1.0	2.2
1.3	2.0	3.0	3.3	1.0	1.0	2.8
1.5	2.0	2.5	1.0	1.7	1.0	2.2
1.5	1.0	2.5	1.0	1.0	1.0	1.8
1.4	1.0	3.0	1.0	2.0	1.0	2.5
1.6	2.0	3.0	1.3	1.0	1.0	2.0
1.6	2.0	3.0	1.0	1.7	1.0	2.3
1.6	2.0	3.0	1.7	2.3	1.0	2.2
1.2	1.0	1.5	1.3	1.7	1.0	2.3
1.4	1.0	3.5	1.0	2.3	1.0	1.8
1.6	2.0	2.5	1.0	2.3	1.0	1.7
1.6	2.0	2.5	1.0	2.0	1.0	2.0
1.3	2.0	4.0	1.3	2.3	1.0	2.3
1.5	1.0	2.0	1.0	1.7	1.0	1.8
1.5	2.0	3.0	1.3	1.7	1.0	2.5
1.5	2.0	4.0	1.0	2.7	1.0	2.5
1.7	2.0	4.5	1.0	2.0	1.0	2.3
1.6	2.0	3.5	1.3	2.0	1.0	2.5
1.2	1.0	3.0	3.7	1.0	1.0	2.3
1.6	1.0	2.5	1.0	1.7	1.0	2.2
1.6	1.0	3.0	1.0	1.7	1.0	2.0
1.3	2.0	2.5	1.0	2.7	1.0	2.5
1.2	1.0	2.0	1.0	1.0	1.0	1.8
1.2	1.0	1.0	1.0	1.3	1.0	1.7
1.3	1.0	2.5	1.0	2.0	1.0	2.0

UNIFORM TEST II, 1984

Plant Height (in.)

Strain	Mean 21 Tests	Ames, IA	Marshalltown, IA	DeKalb, IL	Pontiac, IL	Urbana, IL	Greenfield, IN
BSR 201	33	37	38	35	32	31	29
Century	36	38	40	36	36	32	33
Elgin (II)	32	34	36	32	30	30	31
Hardin (I)	33	34	38	34	35	31	30
Gnome	23	27	24	22	26	23	18
HC Gnome Rps 1-K	23	27	22	23	26	22	17
Pella (III)	36	37	44	40	35	37	37
A80-149020	33	34	39	33	33	30	30
A81-153003	33	35	39	36	32	30	27
A81-155014	34	34	36	37	33	32	31
A81-257031	36	38	41	39	35	35	34
A82-161035	36	38	42	41	35	34	34
A82-162023	34	38	40	34	30	30	31
A82-263010	35	35	40	37	32	33	35
A82-263034	33	36	38	35	32	30	29
A82-264016	35	37	42	37	33	34	34
A82-267015	36	36	39	36	34	33	35
C1625	35	39	40	37	34	32	31
C1627	36	40	43	37	37	34	35
C1628	35	38	41	38	32	35	31
C1636	36	39	41	39	33	34	34
C1638	38	42	48	43	38	36	38
HC78-523	23	29	23	22	26	22	15
HW8185 Century 84	34	38	37	35	30	30	31
HW8221	32	34	33	32	28	29	29
HW8223	37	42	40	39	34	36	36
HW8225	23	25	25	23	22	21	17
LN78-1136 Hack	31	32	38	33	30	28	28
LN80-7532	35	37	40	34	34	32	32

UNIFORM TEST II, 1984

Plant Height (In.)

Lafayette, IN	Lanawee, MI	Gratiot, MI	Lamberton, MN	Waseca, MN	Mead, NE	Adelphia, NJ	Hoytville, OH
28	42	34	33	35	29	31	26
29	44	46	47	43	26	34	25
30	39	35	38	36	27	28	21
30	40	41	35	36	27	32	20
21	30	26	32	27	19	21	9
20	25	24	35	27	18	21	13
37	47	43	41	43	29	35	24
27	41	37	39	42	23	29	22
28	42	41	41	39	24	31	24
32	44	42	37	36	29	32	26
36	44	42	42	39	29	34	24
32	47	42	41	45	28	33	23
29	42	42	40	38	27	33	23
34	44	41	42	39	28	33	22
28	42	43	39	39	28	31	19
33	43	41	44	41	31	35	22
29	42	39	41	43	31	38	24
34	43	44	39	40	26	33	24
30	45	45	35	43	31	34	24
32	44	41	42	39	28	32	25
33	44	46	36	43	29	36	25
20	50	44	49	46	29	37	27
29	28	22	28	27	17	21	7
29	43	41	42	37	24	32	27
35	38	33	42	36	22	30	26
20	49	43	41	42	32	35	29
26	28	26	33	26	17	20	11
31	37	35	34	36	26	20	20
29	42	44	39	41	27	33	22

UNIFORM TEST II, 1984

Plant Height (In.)

Strain	Wooster, OH	Harrow, Ont	Ridgetown, Ont	State College, PA	Brookings, SD	Centerville, SD	Arlington, WI
BSR 201	26	33	33	29	37	34	35
Century	30	34	40	33	40	32	40
Elgin (II)	25	34	33	29	39	31	31
Hardin (I)	24	33	41	29	38	31	38
Gnome	21	23	27	23	23	18	23
HC Gnome Rps 1-K	19	22	28	21	23	18	24
Pella (III)	28	34	38	33	40	34	28
A80-149020	25	31	37	29	39	32	33
A81-153003	23	33	33	30	38	28	34
A81-155014	25	35	38	31	38	29	33
A81-257031	27	37	38	33	38	33	35
A82-161035	27	36	43	33	41	33	38
A82-162023	23	31	35	32	42	32	38
A82-263010	25	34	39	30	40	31	37
A82-263034	25	33	37	29	41	30	33
A82-264016	27	36	33	31	39	31	35
A82-267015	26	37	43	34	44	35	37
C1625	27	34	39	33	40	34	36
C1627	27	37	42	35	41	31	40
C1628	29	34	41	33	38	32	38
C1636	27	36	41	32	41	30	36
C1638	26	37	41	36	43	32	41
HC78-523	18	24	31	24	25	17	27
HW8185 Century 84	25	33	39	32	37	29	35
HW8221	25	29	34	31	35	32	31
HW8223	30	38	42	36	42	36	41
HW8225	18	23	26	23	22	19	25
LN78-1136 Hack	21	31	35	29	37	29	35
LN80-7532	26	34	45	34	44	32	37

UNIFORM TEST II, 1984

Seed Quality (score)

Strain	Mean 18 Tests	Ames, IA	DeKalb, IL	Pontiac, IL	Urbana, IL	Greenfield, IN
BSR 201	1.6	1.5	1.4	1.2	1.1	2.0
Century	1.7	1.4	1.8	1.4	1.3	1.5
Elgin (II)	1.7	1.7	1.3	1.2	1.6	1.5
Hardin (I)	1.7	1.8	1.9	1.5	1.6	1.5
Gnome	1.7	1.6	1.1	1.1	1.1	1.0
HC Gnome Rps 1-K	1.8	1.6	1.5	1.2	1.1	1.0
Pella (III)	2.1	1.3	1.5	1.2	1.1	1.5
A80-149020	1.8	1.7	2.2	1.4	1.4	1.5
A81-153003	1.7	1.6	1.1	1.4	1.6	1.5
A81-155014	1.9	1.8	1.3	1.5	1.7	1.5
A81-257031	2.0	1.6	1.4	1.4	1.2	1.5
A82-161035	1.8	1.5	1.5	1.4	1.2	1.5
A82-162023	2.0	1.8	1.5	1.5	1.8	1.5
A82-263010	2.0	1.7	2.3	1.2	1.3	1.5
A82-263034	2.0	1.5	1.8	1.5	1.4	1.5
A82-264016	1.9	1.6	1.4	1.5	1.6	1.0
A82-267015	1.9	1.8	1.9	1.4	1.7	1.0
C1625	1.8	1.4	1.6	1.6	1.4	1.5
C1627	1.9	1.4	1.5	1.5	1.2	1.5
C1628	2.1	1.6	1.7	1.5	1.3	1.5
C1636	1.8	1.4	1.1	1.1	1.1	1.0
C1638	1.9	1.8	1.5	1.4	1.5	1.0
HC78-523	2.0	1.7	1.3	1.4	1.2	1.5
HW8185 Century 84	1.7	1.5	2.0	1.5	1.2	1.0
HW8221	1.8	1.6	1.1	1.9	1.5	1.0
HW8223	1.8	1.5	2.1	1.4	1.3	1.0
HW8225	1.5	1.3	1.2	1.1	1.1	1.0
LN78-1136 Hack	1.8	1.4	1.8	1.5	1.3	1.5
LN80-7532	1.9	1.8	1.7	1.5	1.4	1.5

UNIFORM TEST II, 1984

Seed Quality (score)

Strain	Lafayette, IN	Lamberton, MN	Waseca, MN	Mead, NE	Adelphia, NJ	Hoytville, OH
BSR 201	1.5	1.3	1.3	1.8	1.0	1.3
Century	1.5	1.3	1.7	2.0	1.3	1.8
Elgin (II)	1.0	1.0	1.0	1.5	1.6	2.3
Hardin (I)	1.5	1.0	1.3	2.2	1.0	2.2
Gnome	1.0	2.0	2.0	1.5	1.0	2.2
HC Gnome Rps 1-K	1.0	2.0	2.0	1.5	1.0	1.5
Pella (III)	1.5	2.0	1.7	2.0	1.6	3.0
A80-149020	2.0	1.7	1.3	2.2	1.6	2.4
A81-153003	1.5	1.7	1.7	2.0	1.3	1.9
A81-155014	2.0	1.7	1.7	1.8	1.6	2.5
A81-257031	1.5	2.0	2.0	2.0	1.3	2.6
A82-161035	1.5	1.7	1.7	1.7	1.6	2.7
A82-162023	1.5	2.0	2.0	2.2	2.0	3.2
A82-263010	1.5	1.7	1.7	1.8	1.6	3.2
A82-263034	1.5	1.7	1.7	2.3	1.3	3.6
A82-264016	1.5	2.3	1.7	2.0	1.6	3.4
A82-267015	1.5	1.7	1.7	2.0	1.6	3.7
C1625	1.5	1.3	1.3	1.8	1.3	2.2
C1627	2.0	1.3	1.3	1.8	1.6	2.2
C1628	2.0	1.7	1.3	2.0	1.3	2.0
C1636	1.5	1.7	1.7	1.5	1.0	2.0
C1638	1.5	1.7	1.3	1.8	2.0	2.2
HC78-523	1.0	2.0	1.7	1.8	1.3	3.8
HW8185 Century 84	1.5	1.7	1.3	2.0	1.0	2.3
HW8221	2.0	1.7	1.3	1.2	1.6	2.1
HW8223	2.0	1.7	1.3	2.0	1.3	1.6
HW8225	1.0	1.7	1.3	1.5	1.0	1.8
LN78-1136 Hack	1.5	1.3	1.3	2.2	1.3	2.0
LN80-7532	1.5	1.7	1.7	1.8	1.6	2.5

UNIFORM TEST II, 1984

Seed Quality (score)

Wooster, OH	Harrow, Ont	Ridgetown, Ont	State College, PA	Brookings, SD	Centerville, SD	Arlington, WI
1.5	1.0	2.0	1.5	3.0	2.0	1.7
1.5	1.0	2.0	2.0	3.0	3.0	1.8
1.3	2.0	3.0	2.5	3.0	2.0	1.8
1.7	2.0	2.0	1.0	2.0	2.0	2.0
1.2	2.0	1.0	2.5	3.0	3.0	2.8
1.2	3.0	1.0	2.0	3.0	3.0	3.0
1.6	2.0	2.0	3.0	4.0	4.0	2.2
1.9	1.0	1.0	1.5	3.0	2.0	2.7
1.7	1.0	1.0	1.5	3.0	2.0	2.5
2.0	2.0	2.0	1.5	3.0	2.0	2.5
1.6	2.0	3.0	2.5	4.0	2.0	2.2
1.6	2.0	1.0	1.5	4.0	2.0	2.7
2.0	2.0	2.0	2.5	3.0	2.0	2.3
2.0	2.0	2.0	2.0	3.0	2.0	2.3
1.8	2.0	2.0	3.0	3.0	3.0	2.0
1.6	1.0	2.0	2.0	4.0	2.0	2.0
1.9	1.0	2.0	2.0	3.0	2.0	2.2
1.6	2.0	3.0	2.0	3.0	2.0	1.8
1.7	2.0	3.0	1.5	3.0	3.0	2.0
1.6	2.0	5.0	2.0	4.0	3.0	2.3
1.4	2.0	4.0	1.5	5.0	2.0	1.8
1.8	2.0	1.0	2.0	5.0	3.0	2.0
1.3	2.0	2.0	1.5	5.0	3.0	2.3
1.4	1.0	2.0	2.0	3.0	3.0	1.8
1.2	1.0	3.0	1.5	3.0	3.0	2.5
1.4	2.0	3.0	1.5	3.0	3.0	2.0
1.2	2.0	2.0	1.0	3.0	2.0	2.0
1.6	2.0	3.0	1.5	3.0	2.0	1.8
1.6	2.0	3.0	2.0	3.0	2.0	2.3

UNIFORM TEST II, 1984

Seed Size (g/100)

Strain	Mean 19 Tests	Ames, IA	DeKalb, IL	Pontiac, IL	Urbana, IL	Greenfield, IN
BSR 201	15.1	11.6	17.2	11.7	16.7	19.1
Century	17.8	14.5	20.1	15.3	17.9	19.8
Elgin (II)	16.4	12.8	18.1	12.1	16.0	18.7
Hardin (I)	15.6	12.8	17.2	12.1	17.3	16.5
Gnome	15.1	12.0	16.0	11.8	14.5	18.0
HC Gnome Rps 1-K	15.1	12.2	16.2	11.7	14.0	17.4
Pella (III)	18.7	14.7	21.9	14.9	17.8	23.5
A80-149020	16.6	12.6	18.3	12.8	18.1	17.8
A81-153003	17.3	13.0	19.8	13.3	16.9	20.1
A81-155014	19.1	16.0	21.5	14.9	20.8	22.8
A81-257031	17.4	14.4	19.5	13.3	19.4	21.2
A82-161035	14.4	10.9	16.8	11.2	15.5	16.5
A82-162023	19.0	14.8	23.2	15.3	20.6	21.0
A82-263010	19.4	16.2	23.2	14.0	19.4	22.1
A82-263034	17.3	13.8	19.9	12.6	18.7	18.8
A82-264016	14.3	12.2	18.9	11.9	17.7	18.3
A82-267015	16.2	12.8	17.9	12.3	17.1	18.5
C1625	17.4	13.7	20.6	13.4	19.6	19.8
C1627	17.1	13.3	19.7	13.8	19.8	19.0
C1628	17.8	14.6	21.0	13.7	19.2	19.6
C1636	18.3	15.4	20.9	14.4	19.5	20.8
C1638	17.0	13.7	20.0	13.7	17.5	19.0
HC78-523	13.8	10.9	15.1	11.1	14.7	15.8
HW8185 Century 84	17.6	15.0	19.6	14.5	18.4	17.1
HW8221	17.4	13.3	20.4	15.1	17.9	19.5
HW8223	18.0	14.5	21.3	14.2	17.5	20.7
HW8225	14.4	11.2	16.3	10.3	14.6	16.2
LN78-1136 Hack	16.8	13.3	20.2	12.7	17.6	18.8
LN80-7532	16.4	12.8	18.9	13.5	16.2	17.1

UNIFORM TEST II, 1984

Seed Size (g/100)

Lafayette, IN	Lanawee, MI	Gratiot, MI	Lamberton, MN	Waseca, MN	Mead, NE	Hoytville, OH
15.5	18.9	17.8	13.6	12.9	15.2	15.5
17.0	21.8	21.1	16.3	15.6	18.2	16.9
16.3	21.1	20.3	14.3	14.6	15.9	16.6
17.6	19.9	17.7	13.8	13.9	15.8	14.6
15.7	18.0	17.6	13.0	13.1	14.0	16.7
16.1	18.0	17.3	12.9	13.5	14.6	15.6
21.2	24.4	21.7	17.0	17.7	19.3	18.1
19.3	20.7	19.3	14.2	14.2	17.9	15.4
20.2	21.9	21.0	14.4	15.4	18.6	15.5
21.5	24.1	21.7	16.0	17.8	19.9	17.6
20.5	21.8	19.9	14.7	14.8	16.2	16.7
16.1	17.9	16.9	13.4	13.2	15.9	14.3
20.9	23.0	21.5	16.5	16.5	19.1	18.2
21.6	23.6	22.7	17.7	17.1	20.1	18.2
18.9	20.8	19.6	15.3	15.6	18.5	16.6
16.7	21.3	18.7	15.0	14.8	16.8	15.1
17.8	20.6	17.6	13.2	14.9	15.9	18.3
19.9	22.1	20.2	15.3	15.7	18.5	16.2
19.3	22.0	19.6	14.0	14.6	17.6	16.5
20.6	22.2	20.3	16.2	16.6	18.1	16.3
19.8	22.1	20.2	16.9	16.4	20.0	17.3
18.5	21.9	19.5	15.9	16.5	18.2	14.9
15.3	16.4	14.9	11.4	12.3	14.8	16.6
18.6	21.9	20.9	15.6	15.8	18.1	16.2
18.0	22.2	20.3	15.7	16.1	17.9	16.4
17.7	23.6	21.0	16.1	16.4	19.0	16.1
14.8	18.2	17.1	13.1	13.0	15.1	15.6
19.8	20.8	19.2	14.8	14.7	17.4	16.0
17.2	20.1	20.2	14.8	14.4	14.8	15.6

UNIFORM TEST II, 1984

Seed Size (g/100)

Strain	Wooster, OH	Harrow, Ont	Ridgetown, Ont	State College, PA	Brookings, SD	Centerville, SD	Arlington, WI
BSR 201	15.2	15.6	13.5	15.3	14.2	13.7	13.5
Century	18.7	18.5	18.2	19.7	16.8	15.6	16.4
Elgin (II)	18.3	16.7	18.0	18.2	15.1	13.6	14.6
Hardin (I)	16.6	15.5	15.5	16.8	14.3	14.3	13.3
Gnome	15.0	16.7	16.7	18.5	13.3	13.5	13.0
HC Gnome Rps 1-K	16.1	16.9	17.2	17.2	12.6	13.0	13.5
Pella (III)	19.5	19.8	17.2	18.8	15.4	16.7	16.1
A80-149020	16.5	16.7	17.0	18.2	15.9	14.3	14.3
A81-153003	18.2	16.7	17.5	18.6	16.0	16.4	14.9
A81-155014	20.6	18.7	17.7	18.2	18.9	17.8	17.0
A81-257031	17.3	17.9	16.6	19.4	16.1	15.5	15.5
A82-161035	14.6	13.8	14.3	14.3	13.7	12.7	12.1
A82-162023	20.6	17.9	17.9	18.8	18.2	18.0	17.0
A82-263010	19.8	19.9	19.6	21.1	19.2	16.4	16.5
A82-263034	17.4	18.9	17.0	18.7	17.6	15.3	14.1
A82-264016	17.0	15.7	15.8	16.4	18.7	14.3	13.4
A82-267015	17.0	16.1	17.0	16.5	15.3	14.7	13.6
C1625	17.8	18.1	18.8	17.3	17.2	15.4	15.2
C1627	17.7	18.0	17.1	17.6	15.2	14.7	14.9
C1628	17.2	17.9	17.8	17.8	18.6	15.5	15.3
C1636	18.9	19.7	18.5	19.4	15.3	15.5	16.0
C1638	16.2	16.4	15.2	18.3	17.2	15.5	15.2
HC78-523	13.4	14.6	14.5	12.9	12.7	14.1	11.6
HW8185 Century 84	19.0	18.6	17.0	20.3	16.7	15.9	15.6
HW8221	18.3	17.1	16.9	18.2	15.6	15.0	15.8
HW8223	18.9	18.5	17.6	18.9	17.0	15.9	16.3
HW8225	15.6	15.8	14.5	15.3	12.8	13.1	12.6
LN78-1136 Hack	17.5	17.2	16.6	18.0	16.8	14.7	14.0
LN80-7532	14.9	17.2	18.3	19.4	16.2	14.0	15.2

UNIFORM TEST II, 1984

Protein (%)

Strain	Mean 5 Tests	Ames, IA	Urbana, IL	Lafayette, IN	Mead, NE	Wooster, OH
BSR 201	40.9	40.9	39.4	41.3	41.9	41.2
Century	41.0	39.6	39.7	41.3	42.5	41.7
Elgin (II)	38.0	38.9	35.6	39.4	37.6	38.4
Hardin (I)	39.4	36.8	38.0	39.6	41.9	40.6
Gnome	40.9	41.4	40.6	42.1	39.3	40.9
HC Gnome Rps 1-K	41.7	42.7	40.9	42.3	40.5	41.9
Pella (III)	38.9	38.9	36.8	40.1	40.7	37.9
A80-149020	39.0	37.8	37.0	39.8	40.7	39.6
A81-153003	39.6	39.2	37.9	40.8	42.0	38.3
A81-155014	37.4	37.5	35.7	38.6	38.6	36.8
A81-257031	40.6	39.9	39.6	41.8	40.8	40.8
A82-161035	39.5	39.3	38.5	39.8	40.6	39.1
A82-162023	38.9	38.8	37.9	40.3	39.5	37.8
A82-263010	39.4	39.5	37.4	39.9	41.0	39.2
A82-263034	39.9	38.3	38.3	41.0	41.5	40.5
A82-264016	39.9	39.5	40.1	40.7	39.6	39.7
A82-267015	40.5	40.5	38.8	41.1	41.5	40.7
C1625	39.7	38.7	38.8	39.6	41.0	40.5
C1627	40.1	38.8	37.9	40.6	42.0	41.1
C1628	40.9	39.5	40.4	41.3	42.0	41.2
C1636	40.0	39.0	38.8	40.9	41.1	40.2
C1638	39.4	38.9	38.1	39.5	40.4	40.0
HC78-523	40.3	39.1	39.5	41.4	40.6	40.8
HW8185 Century 84	42.1	40.8	41.1	42.4	43.8	42.6
HW8221	40.4	40.8	39.4	41.1	40.2	40.6
HW8223	39.5	39.5	37.6	40.6	40.1	39.8
HW8225	38.5	38.4	37.7	39.3	38.7	38.5
LN78-1136 Hack	38.5	37.7	37.3	39.4	40.0	38.2
LN80-7532	40.9	38.3	39.5	42.7	42.2	41.7

UNIFORM TEST II, 1984

OIL (%)

Strain	Mean 5 Tests	Ames, IA	Urbana, IL	Lafayette, IN	Mead, NE	Wooster, OH
BSR 201	20.6	20.1	21.6	20.4	20.5	20.4
Century	20.9	20.8	21.4	21.2	19.7	21.4
Elgin (II)	21.7	20.9	23.5	20.8	21.6	21.9
Hardin (I)	22.3	23.5	23.3	22.4	20.6	21.8
Gnome	20.9	19.3	21.4	21.8	20.9	21.3
HC Gnome Rps 1-K	20.6	19.0	21.7	21.2	20.4	20.8
Pella (III)	22.0	21.3	23.1	22.5	21.4	21.8
A80-149020	21.4	20.9	22.6	21.9	19.8	21.9
A81-153003	21.5	20.8	22.6	22.0	20.0	22.2
A81-155014	22.4	21.6	24.1	22.4	21.2	22.8
A81-257031	21.2	20.3	22.0	22.1	20.3	21.1
A82-161035	21.4	21.0	22.3	21.5	20.4	21.7
A82-162023	22.2	21.4	22.3	22.8	21.2	23.2
A82-263010	21.0	20.5	22.1	21.6	19.4	21.3
A82-263034	21.9	21.7	23.4	22.1	20.5	21.6
A82-264016	21.7	21.5	22.2	22.0	20.7	21.9
A82-267015	21.4	20.8	22.1	22.1	20.2	21.3
C1625	22.0	22.0	22.9	22.9	20.5	21.6
C1627	21.8	21.5	23.4	22.6	20.5	20.9
C1628	20.5	20.2	21.0	21.9	19.3	20.0
C1636	21.9	21.9	23.3	22.0	20.9	21.3
C1638	22.2	21.5	23.4	23.1	21.3	21.7
HC78-523	21.3	20.9	22.3	21.9	20.7	20.7
HW8185 Century 84	20.6	20.5	21.6	21.4	19.3	20.2
HW8221	20.8	19.5	21.9	21.9	20.2	20.7
HW8223	22.1	21.4	23.6	22.9	20.5	22.1
HW8225	22.2	21.1	23.8	22.3	21.7	22.1
LN78-1136 Hack	22.1	22.2	23.5	22.4	20.6	21.6
LN80-7532	21.2	21.3	21.6	21.8	20.4	20.7

PRELIMINARY TEST IIA, 1984

	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	$Corsoy^6$ x Lee 68	BC_5F_3
4.	Elgin (II)	AP6 (2YT) (F4) CI	F_4
5.	Hardin (I)	$Corsoy^3$ x Cutler 71	F_3
6.	Pella (III)	L66L-137 x Calland	F_4
7.	A83-176017	NAPB Ex 4380 x A78-125029	F_4
8.	A83-176036	Pride B-216 x Pella	F_4
9.	A83-271010	NK S1492 x Merschman Washington V	F_4
10.	A83-271018	A77-211021 x NK S1492	F_4
11.	A83-271022	A78-122031 x A77-211021	F_4
12.	A83-271026	A78-122031 x A77-211021	F_4
13.	A83-271027	NK S1492 x Asgrow A3127	F_4
14.	A83-272020	Agripro AP200 x NAPB Ex 4380	F_4
15.	A83-273009	Asgrow A3127 x Tri-Valley Carger	F_4
16.	A83-273017	Agripro AP200 x NAPB Ex 4380	F_4
17.	A83-273021	A77-211021 x Agripro AP200	F_4
18.	A83-274011	Asgrow A3127 x Tri-Valley Charger	F_4
19.	A83-276034	A76-202015 x Century	F_4
20.	A83-276035	A77-211021 x Pella	F_4
21.	A83-372028	Agripro AP200 x NK S1492	F_4
22.	HA82-162012	NK S1492 x Pride B-216	F_5
23.	HA82-162032	Pride B-216 x A77-211021	F_5
24.	HA82-168008	Pella x A78-326017	F_5
25.	HA82-168017	Pella x A77-314013	F_5
26.	HA82-168018	Pella x A77-314013	F_5
27.	HA82-262012	A77-314013 x Pella	F_5
28.	L82-1196	($Corsoy^6$ x L70-6494) x [$Corsoy^6$ x (Wells x (Harosoy x Kingwa))]	F_5
29.	LN80-7603	Century x A76-304020	F_4
30.	LN80-9729	Hardin x A76-304020	F_4
31.	M75-323	L70T-543 x 554-3	F_5
32.	M77-202	M68-49-26 x Simpson	F_5

PRELIMINARY TEST IIA, 1984

Descriptive and Other Data

Strain	Descriptive Code	Chlorosis Score	Shattering Score
		Ames	Manhattan
BSR 201	WGBrIYBI I	5.0	-
Century	PTBrSYBI I	3.2	2.0
Corsoy 79	PGBrDYY I	4.0	1.0
Elgin (II)	PTBrSYBI I	3.5	1.0
Hardin (I)	PGBrIYY I	4.0	1.0
Pella (III)	PTT SYBI I	4.5	1.0
A83-176017	WGBrDYBf I	2.5	3.0
A83-176036	WTBrIYBr I	3.8	1.0
A83-271010	WGBrDYBf I	4.2	1.0
A83-271018	WGBrDYBf I	4.5	-
A83-271022	WGBrDYBf I	4.0	1.0
A83-271026	WGBrIYBf I	4.2	1.0
A83-271027	WTBrDYBI I	4.8	2.0
A83-272020	WGBrSYY I	3.8	2.0
A83-273009	PTT DYBr I	4.2	1.0
A83-273017	WGBrSYBf I	3.5	3.0
A83-273021	WGBrIYBf I	4.5	2.0
A83-274011	PTT DYBI I	4.8	-
A83-276034	PTBrIYBI I	3.2	1.0
A83-276035	PTBrIYBI I	5.0	2.0
A83-372028	WGBrIYBf I	4.5	2.0
HA82-162012	WGBrDYBf I	5.0	2.0
HA82-162032	WGBrIYBf I	3.5	1.0
HA82-168008	PTBrDYBr I	3.2	2.0
HA82-168017	PTBrSYBI I	4.8	2.0
HA82-168018	PTBrIYBI I	4.5	1.0
HA82-262012	WGBrIYBF I	4.2	2.0
L82-1196	PGBrDYY I	4.2	1.0
LN80-7603	PTBrIYBI i	3.8	1.0
LN80-9729	PGBrDYGR I	3.8	3.0
M75-323	WGBrDYBf I	3.0	1.0
M77-202	WGBrDYBf I	3.0	1.0

PRELIMINARY TEST IIA, 1984

Disease Data

BSR		FE	PR	
Ames		Lafayette	Ames	Lafayette
Plant N %	Stem N %	Race 2 Score	Race 4 Reaction	Race 1 Reaction
-	--	2	R	R
-	--	4	S	R
-	--	5	S	R
-	--	1	S	S
-	--	1	S	R
-	--	1	S	R
-	--	3	S	H
-	--	1	S	R
-	--	3	S	S
90	32.8	4	S	S
80	30.8	1	S	S
80	50.1	1	S	S
50	17.2	3	S	R
80	34.7	5	S	H
60	24.2	3	S	R
90	45.7	4	S	R
100	42.2	3	S	R
60	25.7	1	S	R
90	37.2	4	S	R
80	31.2	5	S	R
100	43.1	4	S	R
90	47.6	4	S	S
30	4.7	4	S	R
80	34.9	3	S	R
80	36.5	1	S	R
80	36.9	1	S	R
90	37.8	1	S	R
50	20.7	4	R	R
70	25.6	2	S	R
70	25.6	1	S	R
90	39.4	4	S	R
90	36.1	5	S	R

PRELIMINARY TEST IIA, 1984

Disease Data

	PR		PS	PSB	SMV	GERM
	Hoytville	Vickery	Lafayette			
Strain	Stand Score	Tolerance Score	a %	n %	a Score	%
BSR 201	3.0	2.9	37	7	4E	77
Century	3.2	3.8	34	1	3E	95
Corsoy 79	1.6	3.3	36	16	4E	72
Elgin (II)	4.9	3.4	51	1	5E	86
Hardin (I)	4.1	4.4	76	2	5E	88
Pella (III)	4.9	3.3	48	43	5E	45
A83-176017	4.4	3.6	25	7	1	84
A83-176036	2.7	2.8	18	7	5E	86
A83-271010	3.3	2.9	10	10	3E	82
A83-271018	4.0	3.4	20	2	5M	75
A83-271022	3.4	4.4	34	10	5M	70
A83-271026	4.3	4.5	41	8	1	89
A83-271027	3.0	2.5	29	8	5E	88
A83-272020	4.8	4.1	36	25	4E	62
A83-273009	3.0	2.5	11	3	5E	92
A83-273017	4.7	3.9	40	13	2E	84
A83-273021	4.0	3.6	14	5	2E	82
A83-274011	4.0	2.9	13	2	2E	94
A83-276034	4.6	3.5	26	2	5E	92
A83-276035	4.0	3.6	56	4	5E	72
A83-372028	4.9	4.1	37	3	5E	97
HA82-162012	3.1	3.9	10	8	4E	79
HA82-162032	4.5	4.0	60	15	5E	67
HA82-168008	4.2	3.1	37	9	5E	68
HA82-168017	3.6	3.1	54	18	2E	72
HA82-168018	3.5	3.0	45	5	3M	85
HA82-262012	4.0	3.4	40	5	2M	91
L82-1196	1.9	2.9	43	10	5E	80
LN80-7603	4.0	4.0	28	0	5E	86
LN80-9729	4.5	3.4	25	0	5E	83
M75-323	4.1	3.5	60	9	3E	63
M77-202	4.8	4.0	47	2	2E	89

PRELIMINARY TEST IIA, 1984

REGIONAL SUMMARY

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	9	10	9	10	10	8	8	5	5
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
BSR 201	42.4	29	+2.2	1.9	32	1.6	15.2	40.8	20.5
Century	44.2	24	+4.1	1.6	35	1.8	17.1	40.8	22.8
Corsoy 79	43.9	25	+0.1	1.8	36	1.6	15.8	39.1	21.5
Elgin (II)	45.1	16	9-15.0*	1.7	31	1.8	15.5	37.5	21.9
Hardin (I)	44.6	20	-4.0	1.6	32	1.9	15.6	38.9	22.0
Pella (III)	45.1	16	+7.3	1.6	36	1.9	18.4	38.4	21.5
A83-176017	45.3	13	+3.9	1.9	38	1.4	15.3	38.6	22.5
A83-176036	46.4	6	+2.2	1.9	38	1.7	17.8	40.5	20.6
A83-271010	47.1	5	+2.1	1.5	32	1.9	16.2	39.3	20.8
A83-271018	46.0	9	+5.2	1.9	38	1.9	15.5	40.4	21.0
A83-271022	42.9	28	+0.4	2.1	31	2.1	18.7	39.3	21.8
A83-271026	45.3	13	+0.4	2.2	34	1.9	17.5	39.9	21.6
A83-271027	47.8	2	+5.6	1.9	35	1.8	14.2	41.3	20.7
A83-272020	48.3	1	+5.3	2.1	38	1.9	18.2	36.6	22.5
A83-273009	47.6	4	+2.8	1.4	33	2.0	15.6	38.5	21.8
A83-273017	41.7	30	+1.9	2.5	37	2.1	16.4	39.6	20.9
A83-273021	45.7	10	+2.9	2.5	40	2.0	14.6	37.2	21.3
A83-274011	47.8	2	+6.8	1.5	39	1.9	15.7	39.9	20.5
A83-276034	43.7	26	+6.1	2.0	35	2.0	15.1	38.5	21.1
A83-276035	45.5	11	+5.1	2.1	39	1.9	17.7	38.6	21.2
A83-372028	45.3	13	+9.4	2.2	39	2.1	15.3	39.3	21.4
HA82-162012	45.5	11	+1.7	1.8	33	1.7	14.7	40.4	21.2
HA82-162032	44.9	18	+2.8	1.7	34	1.7	16.4	40.7	20.4
HA82-168008	44.6	20	+4.1	1.2	34	1.8	18.2	39.9	20.3
HA82-168017	44.4	23	+4.7	1.4	38	1.8	19.4	40.9	20.8
HA82-168018	46.1	7	+2.6	1.5	37	1.8	19.0	40.1	21.4
HA82-262012	46.1	7	+2.9	1.4	34	1.8	19.9	39.2	21.2
L82-1196	40.8	31	-3.4	1.9	34	1.7	15.4	39.0	21.7
LN80-7603	44.6	20	+3.4	1.6	32	1.8	17.6	41.5	20.0
LN80-9729	44.8	19	+7.7	2.1	35	2.0	19.2	40.8	20.8
M75-323	40.0	32	-3.4	1.8	31	2.0	16.0	38.5	22.5
M77-202	43.0	27	+0.2	1.3	29	1.8	16.9	41.0	21.7

*125 days after planting

Several strains in this test were superior to the check varieties in seed yield. Some of these strains mature late for the Group II test and continued testing should be done in UT III. The strain L82-1196 has the genes $\underline{Rps}_1^k$ and $\underline{Rps}_2$ for PR resistance.

PRELIMINARY TEST IIA, 1984

YIELD (bu/a)

Strain	Mean 9 Tests	Ames, IA	Marshalltown, IA	Urbana, IL	Lafayette, IN
BSR 201	42.4	41.4	40.4	50.5	40.6
Century	44.2	40.8	37.0	54.7	45.8
Corsoy 79	43.9	51.2	39.9	52.3	43.1
Elgin (II)	45.1	44.0	36.9	53.2	53.4
Hardin (I)	44.6	49.7	40.4	48.7	45.7
Pella (III)	45.1	43.9	41.4	54.8	53.2
A83-176017	45.3	43.9	39.5	57.1	48.6
A83-176036	46.4	47.2	39.0	61.6	50.5
A83-271010	47.1	47.4	40.9	59.0	46.4
A83-271018	46.0	43.5	42.2	58.3	48.0
A83-271022	42.9	45.2	39.2	61.3	34.2
A83-271026	45.3	46.5	41.1	59.7	48.1
A83-271027	47.8	45.0	42.7	64.3	47.6
A83-272020	48.3	45.2	41.8	67.6	52.2
A83-273009	47.6	51.0	41.0	54.9	52.4
A83-273017	41.7	42.9	38.1	63.5	51.3
A83-273021	45.7	53.4	43.3	64.3	50.3
A83-274011	47.8	47.4	38.7	61.6	52.7
A83-276034	43.7	40.5	41.4	58.1	48.3
A83-276035	45.5	47.5	40.2	53.0	47.3
A83-372028	45.3	45.6	43.3	55.4	48.8
HA82-162012	45.5	45.3	44.7	46.6	42.2
HA82-162032	44.9	49.5	42.2	47.4	50.3
HA82-168008	44.6	43.4	39.6	61.4	47.4
HA82-168017	44.4	41.1	38.9	60.2	48.5
HA82-168018	46.1	45.5	42.5	56.5	50.0
HA82-262012	46.1	40.1	42.9	65.3	47.9
L82-1196	40.8	50.5	37.6	41.4	47.1
LN80-7603	44.6	45.1	36.7	55.5	51.7
LN80-9729	44.8	46.0	43.9	55.2	54.1
M75-323	40.0	49.3	33.4	40.4	38.1
M77-202	43.0	44.5	34.5	46.3	43.3
C.V. (%)		7.9	6.4	12.6	10.5
L.S.D. (5%)		7.2	5.1	13.7	9.7
Row sp. (in.)		27	27	30	24
Rows/plot		4	4	4	4
Reps		2	2	2	2

*Data not included in the mean.

PRELIMINARY TEST IIA, 1984

YIELD (bu/a)

Britton, MI	Mead, NE	Adelphia, NJ	Hoytville, OH*	Centerville, SD	Arlington, WI
53.9	45.6	36.0	34.4	34.1	38.9
54.6	52.3	37.5	25.9	44.2	30.6
53.3	39.2	39.2	41.3	36.9	37.0
61.3	47.3	34.8	8.8	38.6	36.6
65.4	40.3	41.4	10.4	32.8	36.8
56.5	48.4	35.2	9.8	42.2	30.7
53.3	47.6	39.2	15.7	40.0	38.8
49.3	49.1	34.3	36.4	46.4	39.9
57.8	50.0	42.8	24.1	37.7	42.3
55.6	45.1	41.0	24.8	43.9	36.4
57.2	44.8	28.8	24.1	40.9	34.8
58.2	44.1	40.1	20.1	39.7	30.1
58.8	47.2	44.1	36.2	45.6	34.8
53.8	45.3	45.6	6.3	48.2	34.6
54.3	51.4	46.4	39.3	42.5	34.2
50.9	44.9	32.9	4.3	21.6	29.6
53.3	42.1	33.8	12.6	37.0	34.1
53.8	50.8	45.9	16.7	45.2	34.3
48.3	46.4	27.9	9.2	48.0	34.4
59.8	43.0	38.0	19.2	42.6	38.1
60.3	46.9	37.3	8.9	32.0	38.0
58.9	52.1	40.5	20.3	40.0	38.8
55.5	43.9	43.4	16.0	31.5	40.4
48.2	42.5	49.2	9.8	38.5	31.5
52.7	45.8	42.7	29.3	35.3	34.0
55.0	44.1	45.0	29.3	39.8	36.2
55.5	48.6	38.8	14.2	39.8	35.9
52.5	38.1	28.4	37.2	35.3	36.7
52.8	44.7	46.4	17.6	38.1	30.7
53.8	39.3	40.0	16.3	32.9	38.2
55.3	39.2	30.4	12.6	38.6	35.2
61.6	35.6	39.2	3.7	42.1	40.2
8.4	6.7	12.8	38.7	16.4	6.1
9.5	6.2	9.9	15.7	NS	11.7
20	30	30	30	30	30
4	4	4	4	4	4
2	2	2	2	2	2

PRELIMINARY TEST IIA, 1984

YIELD RANK

Strain		Ames, IA	Marshalltown, IA	Urbana, IL	Lafayette, IN
BSR 201	29	28	16	26	30
Century	24	30	28	22	25
Corsoy 79	25	2	19	25	28
Elgin (II)	16	22	29	23	2
Hardin (I)	20	5	16	27	26
Pella (III)	16	23	11	21	3
A83-176017	13	23	21	15	14
A83-176036	6	11	23	9	9
A83-271010	5	9	15	12	24
A83-271018	9	25	8	13	18
A83-271022	28	17	22	8	32
A83-271026	13	12	13	11	17
A83-271027	2	20	6	3	20
A83-272020	1	17	10	1	6
A83-273009	4	3	14	20	5
A83-273017	30	27	26	5	8
A83-273021	10	1	3	3	10
A83-274011	2	9	25	6	4
A83-276034	26	31	11	14	16
A83-276035	11	8	18	24	22
A83-372028	13	14	3	18	13
HA82-162012	11	16	1	29	29
HA82-162032	18	6	8	28	10
HA82-168008	20	26	20	7	21
HA82-168017	23	29	24	10	15
HA82-168018	7	15	7	16	12
HA82-262012	7	32	5	2	19
L82-1196	31	4	27	31	23
LN80-7603	20	19	30	17	7
LN80-9729	19	13	2	19	1
M75-323	32	7	32	32	31
M77-202	27	21	31	30	27

PRELIMINARY TEST IIA, 1984

YIELD RANK

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

PRELIMINARY TEST IIA, 1984

MATURITY (date)

Strain	Mean 9 Tests	Ames, IA	Marshalltown, IA	Urbana, IL	Lafayette, IN
BSR 201	+2.2		+4	-1	+2
Century	+4.1		+5	+2	+6
Corsoy 79	+0.1		-3	-1	+2
Elgin (II)	9-15		9-12	9-5	9-1
Hardin (I)	-4.0		-8	-4	-3
Pella (III)	+7.3		+10	+7	+9
A83-176017	+3.9		+9	+3	+4
A83-176036	+2.2		+5	+4	+4
A83-271010	+2.1		+4	+4	+5
A83-271018	+5.2		+10	+4	+5
A83-271022	+0.4		-2	+4	+4
A83-271026	+0.4		+2	+4	+6
A83-271027	+5.6		+10	+7	+3
A83-272020	+5.3		+8	+8	+6
A83-273009	+2.8		+6	+2	+2
A83-273017	+1.9		+2	+5	+3
A83-273021	+2.9		+7	+3	+3
A83-274011	+6.8		+10	+3	+6
A83-276034	+6.1		+10	+4	+6
A83-276035	+5.1		+8	+5	+5
A83-372028	+9.4		+12	+7	+13
HA82-162012	+1.7		+3	-3	+2
HA82-162032	+2.8		+7	-2	+5
HA82-168008	+4.1		+4	+3	+7
HA82-168017	+4.7		+7	+4	+5
HA82-168018	+2.6		+5	+2	+4
HA82-262012	+2.9		+7	+7	+3
L82-1196	-3.4		-5	-5	-2
LN80-7603	+3.4		+6	-1	+7
LN80-9729	+7.7		+10	+3	+10
M75-323	-3.4		-6	-5	-1
M77-202	0.2		0	-1	+3
Date planted	5-13	5-11	5-17	5-7	5-10
Days to mature	125		118	121	114

PRELIMINARY TEST IIA, 1984

MATURITY (date)

Britton, MI	Mead, NE	Adelphia, NJ	Hoytville, OH	Centerville, SD	Arlington, WI
+3	+6	+3	0	-2	+5
+4	+10	+3	0	+1	+6
+2	+2	+1	-1	-6	+5
9-21	9-20	9-15	9-22	9-28	9-15
-1	+1	-4	-5	-10	-2
+5	+11	+4	+10	+5	+5
+4	+9	+1	+1	0	+4
+1	+5	-1	+1	-3	+4
+2	+5	-3	+1	-2	+3
+3	+10	+2	+6	+2	+5
+2	+2	-4	+1	-3	0
+3	+3	-1	+2	-2	+2
+5	+11	+3	+2	+3	+6
+5	+8	+4	+2	-1	+8
+1	+2	+5	+1	+1	+5
+3	+3	+1	+1	-6	+5
+2	+7	+2	-1	-2	+5
+6	+9	+5	+11	+3	+8
+5	+9	+5	+7	+2	+7
+4	+10	+6	0	0	+8
+7	+12	+12	+9	+6	+9
+2	+7	+1	+2	-2	+3
+1	+10	+3	-1	-3	+5
+1	+3	+12	+4	-3	+6
+3	+11	+6	+3	-1	+4
+1	+6	+3	+1	-2	+3
+1	+4	+1	+3	-3	+3
-2	0	-4	-4	-9	0
+3	+3	+3	+3	+2	+5
+6	+12	+12	+5	+1	+10
-5	0	-5	0	-9	-1
-1	+1	-2	+2	-3	+3
5-10	5-1	5-25	5-15	5-24	5-12
134	144	113	130	127	126

PRELIMINARY TEST IIA, 1984

LODGING (score)

Strain	Mean 10 Tests	Ames, IA	Marshalltown, IA	Urbana, IL	Lafayette, IN
BSR 201	1.9	1.6	2.8	1.0	1.3
Century	1.6	1.5	3.0	1.0	1.3
Corsoy 79	1.8	1.7	2.5	1.0	1.3
Elgin (II)	1.7	1.3	2.8	1.0	1.3
Hardin (I)	1.6	2.2	2.7	1.0	1.3
Pella (III)	1.6	1.4	3.0	1.0	1.3
A83-176017	1.9	2.1	3.0	1.0	1.5
A83-176036	1.9	1.4	2.7	1.0	1.5
A83-271010	1.5	1.6	2.7	1.0	1.3
A83-271018	1.9	1.7	3.3	1.0	2.0
A83-271022	2.1	1.6	3.4	1.0	1.3
A83-271026	2.2	2.1	3.3	1.0	1.5
A83-271027	1.9	1.8	3.1	1.0	1.3
A83-272020	2.1	1.7	3.0	1.0	1.5
A83-273009	1.4	1.3	2.0	1.0	1.0
A83-273017	2.5	1.8	3.3	1.0	2.0
A83-273021	2.5	2.7	3.3	1.0	2.0
A83-274011	1.5	1.6	2.4	1.0	1.0
A83-276034	2.0	1.6	3.7	1.0	1.5
A83-276035	2.1	2.0	3.0	1.0	1.8
A83-372028	2.2	1.8	3.4	1.0	1.8
HA82-162012	1.8	1.8	3.1	1.0	1.3
HA82-162032	1.7	1.6	2.9	1.0	1.5
HA82-168008	1.2	1.4	1.9	1.0	1.0
HA82-168017	1.4	1.4	2.0	1.0	1.3
HA82-168018	1.5	1.5	2.2	1.0	1.3
HA82-262012	1.4	1.3	2.9	1.0	1.0
L82-1196	1.9	1.9	3.1	1.0	1.5
LN80-7603	1.6	2.2	2.7	1.0	1.5
LN80-9729	2.1	2.2	3.0	1.0	1.8
M75-323	1.8	1.5	2.9	1.0	1.0
M77-202	1.3	1.3	2.6	1.0	1.0

PRELIMINARY TEST IIA, 1984

LODGING (score)

Britton, MI	Mead, NE	Adelphia, NJ	Hoytville, OH	Centerville, SD	Arlington, WI
3.5	1.5	2.0	1.3	1.0	2.5
2.0	1.0	1.5	1.4	1.0	2.3
2.5	1.0	2.5	1.5	1.0	2.5
4.0	1.0	1.5	1.2	1.0	2.0
2.0	1.0	2.0	1.3	1.0	1.8
2.5	1.0	1.5	1.3	1.0	2.0
3.0	1.5	2.0	1.2	1.0	2.3
3.0	1.5	2.5	1.7	1.0	2.5
2.0	1.3	1.0	1.3	1.0	1.8
3.0	1.8	2.0	1.3	1.0	2.3
4.0	1.5	3.0	1.2	1.0	2.8
3.5	1.5	2.5	1.3	1.0	4.0
3.5	1.8	1.5	1.4	1.0	2.3
3.5	1.5	2.0	1.8	1.0	3.8
2.0	1.0	1.5	1.4	1.0	1.5
4.5	2.0	4.0	2.0	1.0	3.0
4.0	1.8	3.0	1.7	1.0	4.0
2.5	1.3	1.0	1.2	1.0	2.0
4.0	1.3	2.0	1.2	1.0	2.8
3.5	1.5	2.0	1.3	1.0	3.5
4.0	2.0	3.0	1.2	1.0	2.8
3.0	1.5	2.0	1.5	1.0	2.0
2.0	1.5	1.5	2.4	1.0	1.3
1.0	1.0	1.0	1.1	1.0	2.0
2.0	1.3	1.5	1.2	1.0	1.5
2.0	1.0	1.5	1.3	1.0	1.8
2.0	1.0	1.0	1.3	1.0	1.8
2.0	1.3	2.5	1.5	1.0	2.8
3.0	1.0	1.0	1.1	1.0	1.5
4.0	1.5	2.0	1.2	1.0	2.8
3.5	1.3	2.0	1.9	1.0	1.8
1.5	1.0	1.0	1.1	1.0	1.0

PRELIMINARY TEST IIA, 1984

PLANT HEIGHT (Inches)

Strain	Mean 10 Tests	Ames, IA	Marshalltown, IA	Urbana, IL	Lafayette, IN
BSR 201	32	34	40	28	28
Century	35	44	42	31	29
Corsoy 79	36	44	42	34	33
Elgin (II)	31	36	34	30	29
Hardin (I)	32	36	36	28	31
Pella (III)	36	40	42	37	36
A83-176017	38	44	40	39	39
A83-176036	38	44	43	36	36
A83-271010	32	36	36	29	30
A83-271018	38	42	46	37	40
A83-271022	31	36	38	29	27
A83-271026	34	41	40	32	31
A83-271027	35	38	40	35	32
A83-272020	38	40	42	37	36
A83-273009	33	40	36	32	34
A83-273017	37	40	43	37	39
A83-273021	40	44	48	37	40
A83-274011	39	46	44	37	38
A83-276034	35	37	44	34	35
A83-276035	39	44	45	38	37
A83-372028	39	40	43	41	39
HA82-162012	33	38	40	31	31
HA82-162032	34	44	40	32	34
HA82-168008	34	40	40	32	35
HA82-168017	38	42	41	37	37
HA82-168018	37	43	42	35	37
HA82-262012	34	39	44	33	34
L82-1196	34	38	37	31	32
LN80-7603	32	40	36	30	32
LN80-9729	35	42	36	33	36
M75-323	31	38	35	30	26
M77-202	29	35	33	26	25

PRELIMINARY TEST IIA, 1984

PLANT HEIGHT (Inches)

Britton, MI	Mead, NE	Adelphia, NJ	Hoytville, OH	Centerville, SD	Arlington, WI
39	31	33	24	30	35
44	30	37	25	29	37
45	29	38	30	30	37
36	29	30	22	31	31
41	30	36	19	26	35
44	31	37	24	32	37
48	34	39	23	34	39
46	34	39	26	34	39
40	29	32	19	30	34
47	34	40	24	34	38
39	28	28	23	30	31
43	30	34	22	32	34
44	32	32	29	30	34
50	36	42	21	37	43
37	30	32	28	32	31
46	37	42	19	32	36
49	39	40	25	36	42
48	35	40	24	37	37
46	30	36	20	33	38
50	35	36	28	37	41
47	39	42	26	34	39
39	31	33	24	34	32
42	33	32	19	30	35
39	28	36	25	34	35
44	34	38	28	36	38
44	31	38	28	34	36
40	26	34	22	31	35
40	29	36	26	30	37
38	28	31	20	28	33
47	31	34	25	29	36
36	28	34	21	29	32
37	23	32	19	30	33

PRELIMINARY TEST IIA, 1984

SEED QUALITY (score)

Strain	Mean 8 Tests	Ames, IA	Marshalltown, IA	Urbana, IL	Lafayette, IN
BSR 201	1.6	1.6		1.2	1.5
Century	1.8	1.7		1.4	1.5
Corsoy 79	1.6	1.4		1.5	1.5
Elgin (II)	1.8	1.6		1.3	1.5
Hardin (I)	1.9	1.6		1.7	2.0
Pella (III)	1.9	1.5		1.4	1.5
A83-176017	1.4	1.3		1.2	1.0
A83-176036	1.7	1.4		1.2	1.0
A83-271010	1.9	1.7		1.8	1.5
A83-271018	1.9	1.7		1.5	1.5
A83-271022	2.1	1.8		1.7	2.0
A83-271026	1.9	1.5		1.7	1.5
A83-271027	1.8	1.4		1.1	1.0
A83-272020	1.9	1.5		1.2	1.5
A83-273009	2.0	1.8		1.1	1.5
A83-273017	2.1	1.5		1.5	1.5
A83-273021	2.0	1.4		1.4	1.5
A83-274011	1.9	1.9		1.2	1.0
A83-276034	2.0	1.8		1.4	1.5
A83-276035	1.9	1.4		1.2	1.5
A83-372028	2.1	1.5		1.7	1.5
HA82-162012	1.7	1.6		1.5	1.5
HA82-162032	1.7	1.6		1.4	1.5
HA82-168008	1.8	1.8		1.5	1.0
HA82-168017	1.8	1.9		1.3	1.5
HA82-168018	1.8	1.8		1.5	1.5
HA82-262012	1.8	1.6		1.8	1.5
L82-1196	1.7	1.6		1.4	1.5
LN80-7603	1.8	1.6		1.4	1.0
LN80-9729	2.0	1.6		1.7	1.5
M75-323	2.0	1.5		2.0	1.5
M77-202	1.8	1.8		1.8	1.0

PRELIMINARY TEST IIA, 1984

SEED QUALITY (score)

Britton, MI	Mead, NE	Adelphia, NJ	Hoytville, OH	Centerville, SD	Arlington, WI
	2.0	1.0	2.0	2.0	1.5
	2.0	1.0	1.8	3.0	2.3
	2.0	1.0	1.6	2.0	2.0
	1.5	1.0	2.3	3.0	2.0
	2.0	1.0	2.2	2.0	2.3
	2.0	1.0	2.5	3.0	2.5
	1.5	1.0	1.7	2.0	1.8
	2.0	1.0	2.5	2.0	2.5
	2.0	1.0	2.3	3.0	2.0
	2.0	1.0	2.6	3.0	2.0
	1.5	2.0	3.4	2.0	2.5
	2.3	1.0	2.2	2.0	2.8
	1.5	1.0	2.0	4.0	2.0
	1.5	2.0	3.3	2.0	2.3
	1.5	1.0	2.1	3.0	3.8
	2.0	2.0	3.6	2.0	2.8
	2.0	1.0	3.2	3.0	2.3
	2.0	1.0	2.6	3.0	2.8
	1.5	1.0	3.3	3.0	2.3
	1.5	1.5	2.5	3.0	2.3
	1.8	1.0	2.7	4.0	2.8
	1.8	1.0	2.0	2.0	2.3
	1.8	1.5	2.3	2.0	1.8
	2.0	1.0	3.2	2.0	2.0
	2.0	1.0	2.2	3.0	1.5
	1.8	1.0	2.0	3.0	1.8
	2.0	1.5	2.2	2.0	2.0
	2.0	1.0	1.9	2.0	1.8
	2.0	1.0	2.7	2.0	2.3
	2.0	1.0	2.6	3.0	2.5
	2.0	1.5	2.8	2.0	2.3
	2.0	1.5	2.1	2.0	1.8

PRELIMINARY TEST IIA, 1984

SEED SIZE (g/100)

Strain	Mean 8 Tests	Ames, IA	Marshalltown, IA	Urbana, IL	Lafayette, IN
BSR 201	15.2	12.2		16.5	15.3
Century	17.1	14.6		16.5	16.8
Corsoy 79	15.8	13.5		17.0	17.5
Elgin (II)	15.5	13.4		15.1	16.6
Hardin (I)	15.6	13.3		17.0	17.0
Pella (III)	18.4	15.3		18.0	20.2
A83-176017	15.3	13.8		15.7	16.0
A83-176036	17.8	16.3		19.9	20.0
A83-271010	16.2	13.6		17.3	17.6
A83-271018	15.5	13.0		15.4	14.9
A83-271022	18.7	16.4		21.6	18.7
A83-271026	17.5	14.6		19.2	17.0
A83-271027	14.2	12.7		15.2	13.7
A83-272020	18.2	15.5		20.9	19.4
A83-273009	15.6	14.0		16.1	16.3
A83-273017	16.4	13.3		18.8	16.9
A83-273021	14.6	12.9		16.4	15.6
A83-274011	15.7	14.4		15.2	16.4
A83-276034	15.1	12.7		15.3	15.8
A83-276035	17.7	15.7		16.7	18.5
A83-372028	15.3	13.4		14.4	15.2
HA82-162012	14.7	12.9		14.2	14.6
HA82-162032	16.4	15.1		16.9	18.5
HA82-168008	18.2	14.7		20.3	20.3
HA82-168017	19.4	16.1		21.2	22.1
HA82-168018	19.0	15.4		20.3	21.7
HA82-262012	19.9	17.1		23.4	21.3
L82-1196	15.4	13.9		16.0	18.2
LN80-7603	17.6	15.6		16.9	19.0
LN80-9729	19.2	16.0		19.4	21.8
M75-323	16.0	14.7		16.2	16.9
M77-202	16.9	13.9		18.7	19.3

PRELIMINARY TEST IIA, 1984

SEED SIZE (g/100)

Britton, MI	Mead, NE	Adelphia, NJ	Hoytville, OH	Centerville, SD	Arlington, WI
18.7	15.6		14.8	13.3	15.2
21.7	17.6		16.2	16.6	16.6
19.5	15.9		14.2	14.5	14.2
20.8	15.5		15.3	12.3	14.6
19.8	15.5		14.7	14.1	13.7
22.8	20.0		18.6	16.3	16.2
19.9	15.1		14.9	13.2	13.8
22.5	18.0		17.2	16.2	16.9
20.1	15.8		16.4	13.4	15.1
19.7	17.1		16.1	14.1	13.7
25.3	19.6		18.3	14.9	17.6
22.5	18.0		16.9	16.3	15.8
18.2	14.8		12.7	12.9	13.0
22.1	18.1		18.2	16.0	15.1
19.2	16.1		15.3	13.4	14.4
20.7	16.5		15.5	14.5	15.2
18.7	14.7		13.3	12.4	13.1
20.6	17.0		14.5	13.5	14.3
19.4	16.2		15.4	13.0	13.2
22.1	18.3		16.4	16.5	17.1
19.8	16.5		15.6	12.3	15.0
19.1	15.4		14.0	13.8	13.7
18.6	17.9		14.4	14.0	15.5
20.4	18.4		18.2	16.2	16.9
23.3	20.6		18.7	16.7	16.7
22.5	20.4		19.2	16.1	16.6
22.3	20.8		18.0	18.6	17.6
19.3	15.1		14.2	13.3	12.9
21.1	18.7		17.2	15.6	16.9
24.0	19.1		20.8	15.7	16.9
19.1	16.3		14.8	14.3	15.4
21.5	16.0		16.2	14.7	14.9

PRELIMINARY TEST IIA, 1984

PROTEIN (%)

Strain	Mean 5 Tests	Ames, IA	Urbana, IL	Lafayette, IN	Mead, NE	Hoytville, OH
BSR 201	40.8	40.2	40.0	42.0	42.3	39.6
Century	40.8	41.7	39.0	42.3	41.5	39.5
Corsoy 79	39.1	39.2	37.7	39.1	40.9	38.7
Elgin (II)	37.5	38.4	36.1	39.4	37.1	36.3
Hardin (I)	38.9	38.0	37.4	39.5	41.7	38.0
Pella (III)	38.4	37.4	37.7	39.7	39.1	37.9
A83-176017	38.6	39.1	37.7	39.9	39.5	37.0
A83-176036	40.5	41.4	39.3	42.1	40.3	39.3
A83-271010	39.3	40.0	38.2	41.0	40.3	37.0
A83-271018	40.4	41.1	39.8	41.9	41.0	38.4
A83-271022	39.3	39.7	38.7	40.5	40.8	37.0
A83-271026	39.9	38.6	40.7	41.8	40.5	37.9
A83-271027	41.3	41.0	41.5	42.1	42.3	39.4
A83-272020	36.6	38.1	36.4	38.2	35.4	35.0
A83-273009	38.5	39.6	37.7	38.7	38.8	37.7
A83-273017	39.6	38.8	40.1	41.8	39.4	37.9
A83-273021	37.2	38.3	37.0	39.2	38.3	33.3
A83-274011	39.9	39.8	40.1	40.2	40.4	38.9
A83-276034	38.5	39.0	37.8	40.6	39.6	35.6
A83-276035	38.6	37.5	38.9	41.4	39.4	36.0
A83-372028	39.3	38.9	39.1	41.5	40.6	36.4
HA82-162012	40.4	41.3	39.3	42.1	41.0	38.5
HA82-162032	40.7	40.4	40.1	42.2	42.6	38.0
HA82-168008	39.9	39.4	39.3	41.8	41.4	37.8
HA82-168017	40.9	40.8	40.1	41.7	42.1	39.8
HA82-168018	40.1	39.9	38.9	40.8	41.3	39.5
HA82-262012	39.2	38.9	38.6	40.6	41.1	36.9
L82-1196	39.0	38.0	37.0	40.1	41.0	39.0
LN80-7603	41.5	41.3	39.4	42.4	42.6	41.6
LN80-9729	40.8	40.4	38.8	41.8	42.6	40.5
M75-323	38.5	39.4	35.0	40.1	40.6	37.3
M77-202	41.0	41.7	39.2	41.0	43.5	39.4

PRELIMINARY TEST IIA, 1984

OIL (%)

Strain	Mean 5 Tests	Ames, IA	Urbana, IL	Lafayette, IN	Mead, NE	Hoytville, OH
BSR 201	20.5	19.7	21.6	21.0	19.7	20.7
Century	22.8	19.9	22.5	21.4	19.6	20.4
Corsoy 79	21.5	20.9	22.9	21.9	20.5	21.1
Elgin (II)	21.9	20.8	23.7	22.3	21.5	21.4
Hardin (I)	22.0	22.0	23.8	21.8	20.0	22.2
Pella (III)	21.5	21.2	22.7	22.1	20.6	20.9
A83-176017	22.5	21.5	23.8	23.2	21.8	22.4
A83-176036	20.6	20.1	21.3	20.9	20.4	20.4
A83-271010	20.8	20.4	22.0	20.7	19.6	21.4
A83-271018	21.0	20.0	22.1	21.1	20.4	21.3
A83-171022	21.8	21.1	23.2	21.9	20.7	22.3
A83-271026	21.6	22.3	22.0	21.7	20.6	21.4
A83-271027	20.7	20.4	21.4	21.0	19.8	21.1
A83-272020	22.5	22.2	23.3	23.4	21.7	22.8
A83-273009	21.8	21.1	23.4	22.4	21.0	21.0
A83-273017	20.9	21.0	21.3	20.8	20.3	21.2
A83-273021	21.3	20.5	22.7	20.7	20.4	22.4
A83-274011	20.5	20.3	21.2	21.2	19.9	20.0
A83-276034	21.1	20.1	22.1	21.1	20.2	22.2
A83-276035	21.2	21.6	21.8	21.4	20.0	21.3
A83-372028	21.4	21.3	21.7	21.4	20.5	21.9
HA82-162012	21.2	20.4	21.9	21.4	20.6	21.5
HA82-162032	20.4	19.9	21.5	20.4	18.8	21.4
HA82-168008	20.3	20.1	21.0	20.8	19.4	20.1
HA82-168017	20.8	20.2	21.8	21.7	19.7	20.6
HA82-168018	21.4	21.4	22.4	21.7	20.7	20.6
HA82-262012	21.2	21.3	21.8	21.2	20.3	21.4
L82-1196	21.7	21.5	23.2	21.8	20.6	21.5
LN80-7603	20.0	19.4	21.8	19.9	18.9	20.2
LN80-9729	20.8	20.7	21.8	21.5	19.3	20.5
M75-323	22.5	21.4	24.9	22.5	20.9	22.8
M77-202	21.7	20.7	24.0	22.5	19.8	21.7

PRELIMINARY TEST IIB, 1984

	Strain	Parentage	Generation Composited
1.	Century	Calland x Bonus	F_6
2.	Elgin (II)	AP6 (2YT) (F4) CI	F_4
3.	Hardin (I)	Corsoy x Cutler 71	F_3
4.	Pella (III)	L66L-137 x Calland	F_4
5.	C1650	Nebsoy x Century	F_5
6.	C1651	A75-305022 x Century	F_5
7.	C1658	Century x CX744-12-2	F_5
8.	C1660	Nebsoy x A76-304020	F_4
9.	HW8185-6	Century[5] x Williams 82	BC_4F_3
10.	LN80-10364	Century x Land O'Lakes Max	F_4
11.	LN80-10508	Century x Land O'Lakes Max	F_4
12.	LN81-433	K74-115-75-405 x L69U40-16-4	F_4
13.	LN81-1029	K74-114-75-000 x Pella	F_4
14.	LN81-2090	K74-114-75-000 x K1029	F_4
15.	LN81-4098	Williams ($\underline{ms}_2$) x Beeson	$\underline{4}$
16.	U80-65127	[Wayne x Clark 63 (Rps_1) x Amsoy 71] x Amsoy 71	F_4
17.	Gnome	Williams x Ransom	F_4
18.	HC79-3100	Essex x Elf	F_5
19.	HC80-1755	L73U-632 x Elf	F_5
20.	HC80-1756	L73U-632 x Elf	F_5
21.	HC80-1938	L73U-632 x Elf	F_5
22.	HC80-1942	L73U-632 x Elf	F_5
23.	HC80-1944	L73U-632 x Elf	F_5
24.	HC80-1946	L73U-632 x Elf	F_5
25.	HC80-2479	Elf x Gnome	F_5
26.	HC80-2649	L75U-495 x Elf	F_5
27.	HC81-1730	Hardin x Sprite	F_5
28.	HC81-2132	HC74-678 x Gnome	F_5
29.	L82-3713	L73-6626 x Williams	F_{10}
30.	L82-3813	L73-6626 x Elf	F_8

PRELIMINARY TEST IIB, 1984

Strain	Descriptive Code		Chlorosis Score: Ames	Shattering Score: Manhattan	BSR: Ames Plant N %	BSR: Ames Stem N %
Century	PTBrSYBl	I	2.8	2.0	100	41.1
Elgin (II)	PTBrSYBl	I	3.2	1.0	90	41.4
Hardin (I)	PGBrIYY	I	3.8	1.0	100	49.4
Pella (III)	PTT SYBl	I	4.0	1.0	100	59.3
C1650	PGBrIYlb	I	3.2	2.0	90	48.0
C1651	P+WTBrDYBl	I	2.5	2.0	100	54.8
C1658	PTBrDYBl	I	3.5	1.0	100	57.0
C1660	WGBrSYBf	I	4.2	2.0	100	39.5
HW8185-6	PTBrIYBl	I	3.2	1.0	100	52.6
LN80-10364	PTBrSYBl	I	3.8	2.0	90	45.8
LN80-10508	PTBrDYBl	I	3.0	-	90	39.6
LN81-433	PGT DYGr	I	3.8	2.0	80	39.6
LN81-1029	WGT DYBf	I	3.0	3.0	100	49.1
Ln81-2090	WTT IYBl	I	2.8	2.0	60	29.5
LN81-4098	PTBrT SYBl	I	3.0	1.0	100	51.5
U80-65127	PGBrSYBf	I	3.0	1.0	100	36.7
Gnome	PTT SYBl	D	3.2	2.0	100	88.8
HC79-3100	PTT DYBl	D	3.8	1.0	-	--
HC80-1755	WTT IYBl	D	3.0	1.0	-	--
HC80-1756	WTT IYBl	D	3.8	-	-	--
HC80-1938	PTT IYBl	D	3.2	1.0	-	--
HC80-1942	P+WTT IYBl	D	2.8	1.0	-	--
HC80-1944	WTT IYBl	D	3.2	1.0	-	--
HC80-1946	PTT IYBl	D	2.8	1.0	-	--
HC80-2479	PTT SYBl	D	4.5	1.0	-	--
HC80-2649	PTBrSYBl	D	3.5	2.0	-	--
HC81-1730	WTT IYY	D	3.5	1.0	-	--
HC81-2132	PTT SYBl	D	4.0	-	-	--
L82-3713	WTBrIYBl	D	3.2	1.0	-	--
L82-3813	PTT SYBr	D	3.8	1.0	-	--

PRELIMINARY TEST IIB, 1984

Disease Data

FE	PR				PS	PSB	SMV	GERM
Lafayette	Ames	Lafayette	Hoytville	Vickery	Lafayette			
Race 2 Score	Race 4 Reaction	Race 1 Reaction	Stand Score	Tolerance Score	a %	n %	a Score	%
4	S	R	3.9	3.4	34	1	3E	95
1	S	S	4.6	3.0	51	1	5E	86
1	S	R	4.6	3.6	76	2	5E	88
1	S	R	2.9	3.4	48	43	5E	45
5	R	R	4.3	4.5	57	11	1	70
5	S	S	4.0	3.4	53	18	3E	63
5	R	R	1.6	2.6	36	18	3E	64
1	S	S	4.7	3.3	33	11	1	80
5	R	R	1.5	2.4	57	12	4E	68
1	S	R	3.1	2.8	32	7	4E	86
1	S	R	2.0	3.8	39	10	5E	91
5	R	R	1.7	2.8	49	4	5E	89
5	S	R	3.4	4.5	49	5	3E	88
5	S	H	2.0	2.6	28	7	5E	90
1	S	R	4.5	4.5	51	23	5E	86
5	S	R	4.6	5.0	51	34	1	57
1	S	S	4.2	4.4	10	1	2E	76
1	S	S	3.0	4.4	13	14	2M	76
1	R	R	4.3	4.1	11	42	3M	35
1	S	R	3.8	4.0	37	57	3M	32
1	S	R	4.3	4.3	19	64	4E	19
1	S	R	4.7	3.4	41	51	4M	39
1	R	R	4.6	3.3	25	45	2E	32
1	S	R	4.6	3.8	19	46	3E	40
1	S	S	4.6	4.4	36	11	3E	85
1	S	S	3.5	3.5	37	31	5E	52
3	S	S	3.9	4.4	31	59	3E	14
1	S	H	4.7	4.0	62	34	2E	29
2	S	S	4.0	2.9	50	38	2E	49
1	S	S	3.1	3.3	30	29	5E	69

PRELIMINARY TEST IIB, 1984

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	9	10	9	10	10	8	8	4	4
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Century	45.9	4	+3.8	1.6	35	1.6	17.6	39.9	21.5
Elgin (II)	44.1	7	9-15.4*	1.8	31	1.7	15.8	37.2	22.2
Hardin (I)	43.2	14	-2.3	1.8	32	1.8	16.4	38.8	22.2
Pella (III)	45.6	5	+6.7	1.7	37	1.9	18.6	38.0	21.8
C1650	41.2	21	+6.4	1.6	35	2.2	16.7	39.3	20.7
C1651	43.5	12	+3.0	1.2	33	1.7	17.2	40.5	20.8
C1658	43.6	10	-0.2	1.5	33	1.6	17.8	43.2	19.7
C1660	43.9	8	+1.0	1.3	32	1.6	14.8	39.5	20.9
HW8185-6	43.6	10	+3.2	1.4	33	1.6	17.4	41.5	20.5
LN80-10364	46.1	3	+4.3	1.5	38	1.9	18.8	39.7	20.8
LN80-10508	47.1	1	+4.6	1.7	37	1.6	17.1	39.6	21.5
LN81-433	42.8	15	+5.4	2.2	36	1.8	18.0	39.9	20.9
LN81-1029	46.2	2	+4.2	1.4	36	1.6	16.9	39.7	21.4
LN81-2090	38.8	28	+2.4	1.9	37	1.8	16.3	43.0	19.9
LN81-4098	40.8	25	+3.4	1.4	36	20	19.0	39.6	21.7
U80-65127	44.9	6	+7.2	2.1	40	2.0	15.6	38.3	21.9
Gnome	41.9	17	+6.6	1.3	22	1.7	15.2	40.6	21.0
HC79-3100	40.9	23	+8.0	1.2	22	2.0	13.9	42.0	20.5
HC80-1755	41.9	17	+5.3	1.3	21	1.6	16.9	41.1	20.6
HC80-1756	43.4	13	+1.2	1.2	23	1.7	15.7	41.2	20.5
HC80-1938	40.9	23	+0.8	1.2	22	1.8	16.5	40.7	20.9
HC80-1942	40.6	26	+3.4	1.2	21	1.6	16.7	41.3	20.7
HC80-1944	42.5	16	+5.3	1.2	22	1.7	17.1	42.4	19.9
HC80-1946	43.8	9	+5.1	1.2	23	1.7	16.3	41.3	21.0
HC80-2479	41.1	22	+7.1	1.3	20	1.8	14.8	41.2	19.9
HC80-2649	41.6	20	+4.8	1.2	23	1.7	16.5	40.4	20.7
HC81-1730	40.4	27	+0.4	1.5	21	2.0	17.2	40.4	22.6
HC81-2132	41.7	19	+7.8	1.6	29	1.8	15.1	40.6	20.6
L82-3713	38.8	28	+6.8	1.5	28	1.7	17.0	41.0	19.7
L82-3813	37.0	30	+6.7	1.9	33	1.7	14.7	41.5	19.6

*121 days after planting

Three strains, LN80-10508, LN81-1029, and LN80-10364 were higher yielding than the check varieties in this test, and all were resistant to PR race 1. The determinate strain HC80-1756 was higher yielding than Gnome, matured within the range of Group II varieties, and was resistance to PR race 1.

PRELIMINARY TEST IIB, 1984

YIELD (bu/a)

Strain	Mean 9 Tests	Ames, IA	Marshalltown, IA	Urbana, IL	Lafayette, IN
Century	45.9	45.8	35.3	54.7	45.8
Elgin (II)	44.1	48.2	35.8	53.2	53.4
Hardin (I)	43.2	53.6	40.8	48.7	45.7
Pella (III)	45.6	46.0	39.0	54.8	53.2
C1650	41.2	38.4	33.9	54.3	45.7
C1651	43.5	48.3	39.1	50.3	53.5
C1658	43.6	48.3	35.0	54.9	44.3
C1660	43.9	44.3	34.1	58.0	44.8
HW8185-6	43.6	47.3	35.7	58.5	39.2
LN80-10364	46.1	43.5	36.6	63.2	50.7
LN80-10508	47.1	48.7	40.7	63.8	45.9
LN81-433	42.8	42.3	35.3	56.1	44.2
LN81-1029	46.2	47.6	39.7	54.3	51.5
LN81-2090	38.8	40.2	34.4	49.2	46.1
LN81-4098	40.8	39.5	36.6	53.3	44.2
U80-65127	44.9	42.9	38.6	61.0	57.6
Gnome	41.9	41.2	32.1	48.3	44.1
HC79-3100	40.9	41.2	32.7	51.0	40.6
HC80-1755	41.9	44.7	33.9	51.9	42.6
HC80-1756	43.4	44.1	38.9	52.4	45.0
HC80-1938	40.9	47.0	38.3	50.1	37.8
HC80-1942	40.6	44.7	34.8	45.4	38.7
HC80-1944	42.5	45.8	37.7	48.4	34.9
HC80-1946	43.8	47.4	34.3	58.3	43.3
HC80-2479	41.1	42.1	34.9	46.6	40.7
HC80-2649	41.6	45.1	38.2	44.9	44.3
HC81-1730	40.4	50.2	39.2	47.9	37.1
HC81-2132	41.7	45.9	33.8	47.1	48.6
L82-3713	38.8	41.6	32.8	50.5	45.1
L82-3813	37.0	38.0	29.8	41.2	41.3
C.V. (%)		6.3	6.7	12.6	10.5
L.S.D. (5%)		5.8	4.9	13.7	9.7
Rows sp. (in.)		27	27	30	24
Rows/plot		4	4	4	4
Reps		2	2	2	2

[1]Data not included in the mean.

PRELIMINARY TEST IIB, 1984

YIELD (bu/a)

Britton, MI	Mead, NE	Adelphia, NJ	Hoytville, OH[1]	Centerville SD	Arlington, WI
52.9	51.2	36.8	27.7	51.8	38.9
44.1	46.1	36.2	12.3	42.1	37.9
59.5	35.4	41.4	11.4	23.9	39.6
59.5	48.5	27.6	36.3	46.2	35.2
43.9	53.6	36.8	18.4	33.4	30.5
54.5	46.3	36.9	30.8	25.4	37.4
48.2	44.8	32.5	50.9	46.3	37.8
54.7	48.4	33.7	10.5	40.2	37.0
58.1	48.6	40.6	47.8	27.4	36.7
61.7	40.8	40.6	28.6	36.4	41.3
56.9	52.2	36.9	32.2	41.7	36.7
57.4	44.8	30.3	45.7	39.5	35.1
55.4	48.6	39.0	31.3	43.5	35.9
46.1	40.1	34.8	31.6	28.5	30.2
54.3	45.3	31.6	12.1	29.8	32.9
57.0	43.6	33.4	18.6	35.6	34.5
57.6	45.1	37.5	30.0	37.6	33.2
53.0	41.6	35.2	20.4	38.3	34.8
52.5	46.9	36.4	17.5	31.5	36.6
57.0	47.6	33.2	16.4	35.0	37.6
59.9	43.1	34.0	14.8	21.6	36.5
55.8	39.3	38.2	11.5	31.4	36.7
56.5	47.2	36.8	12.8	35.1	40.5
51.8	46.7	36.0	10.8	42.0	34.5
54.4	47.5	38.0	10.3	33.0	32.6
54.8	45.8	30.0	20.0	36.9	34.5
62.5	31.0	31.0	20.8	27.9	37.0
46.2	45.2	32.6	12.8	41.9	33.7
42.2	39.6	37.2	16.5	28.1	31.8
41.1	44.2	34.4	24.3	34.4	28.4
10.0	11.0	11.3	26.5	21.6	7.8
11.0	10.1	8.0	12.4	NS	5.7
20	30	30	30	30	30
4	4	4	4	4	4
2	2	2	2	2	2

PRELIMINARY TEST IIB, 1984

YIELD RANK

Strain		Ames, IA	Marshalltown, IA	Urbana, IL	Lafayette, IN
Century	4	13	16	10	10
Elgin (II)	7	6	14	14	3
Hardin (I)	14	1	1	22	11
Pella (III)	5	11	6	9	4
C1650	21	29	24	11	11
C1651	12	5	5	19	2
C1658	10	4	18	8	16
C1660	8	18	23	6	15
HW8185-6	10	9	15	4	26
LN80-10364	3	20	12	2	6
LN80-10508	1	3	2	1	9
LN81-433	15	22	16	7	18
LN81-1029	2	7	3	11	5
LN81-2090	28	27	21	21	8
LN81-4098	25	28	12	13	18
U80-65127	6	21	8	3	1
Gnome	17	25	29	24	20
HC79-3100	23	25	28	17	25
HC80-1755	17	16	24	16	22
HC80-1756	13	19	7	15	14
HC80-1938	23	10	9	20	28
HC80-1942	26	16	20	28	27
HC80-1944	16	13	11	23	30
HC80-1946	9	8	22	5	21
HC80-2479	22	23	19	27	24
HC80-2649	20	15	10	29	16
HC81-1730	27	2	4	25	29
HC81-2132	19	12	26	26	7
L82-3713	28	24	27	18	13
L82-3813	30	30	30	30	23

PRELIMINARY TEST IIB, 1984

YIELD RANK

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

PRELIMINARY TEST IIB, 1984

MATURITY (date)

Strain	Mean 9 Tests	Ames, IA	Marshalltown, IA	Urbana, IL	Lafayette, IN
Century	+3.8		+6	+2	+6
Elgin (II)	9-15.4		9-12	9-5	9-1
Hardin (I)	-2.3		-7	+4	-3
Pella (III)	+6.7		+10	+7	+9
C1650	+6.4		+9	+5	+8
C1651	+3.0		+4	+3	+7
C1658	-0.2		+2	+2	+1
C1660	+1.0		-2	+2	+4
HW8185-6	+3.2		+6	+4	+5
LN80-10364	+4.3		+5	+7	+6
LN80-10508	+4.6		+9	+6	+5
LN81-433	+5.4		+10	+4	+7
LN81-1029	+4.2		+9	+6	+5
LN81-2090	+2.4		+9	+1	+3
LN81-4098	+3.4		+4	+6	+2
U80-65127	+7.2		+10	+8	+9
Gnome	+6.6		+9	+5	+9
HC79-3100	+8.0		+11	+12	+10
HC80-1755	+5.3		+10	+7	+1
HC80-1756	+1.2		+3	+1	-1
HC80-1938	+0.8		+4	+2	-1
HC80-1942	+3.4		+8	-1	+3
HC80-1944	+5.3		+10	+4	+6
HC80-1946	+5.1		+9	+5	+3
HC80-2479	+7.1		+10	+5	+11
HC80-2649	+4.8		+10	+5	+8
HC81-1730	+0.4		-2	0	-1
HC81-2132	+7.8		+10	+6	+12
L82-3713	+6.8		+9	+7	+8
L82-3813	+6.7		+10	+4	+8
Date planted	5-17		5-17	5-7	5-10
Days to mature	121		117	121	114

PRELIMINARY TEST IIB, 1984

MATURITY (date)

Britton, MI	Mead, NE	Adelphia, NJ	Hoytville, OH	Centerville SD	Arlington, WI
+5	+7	0	+1	0	+7
9-20	9-21	9-16	9-22	9-26	9-16
+1	+2	-3	-4	-10	-1
+6	+10	+2	+4	+7	+5
+6	+10	-1	+11	+6	+4
+3	+2	+1	+4	-1	+4
0	-1	-5	-2	-2	+3
+5	+1	-6	+6	0	-1
+4	+6	0	0	-1	+5
+4	+3	+4	+3	+1	+6
+5	+6	+2	+2	+2	+4
+4	+8	+2	+6	+1	+7
+3	+5	-2	+5	+2	+5
+3	+1	0	0	+1	+4
+5	+5	-2	+6	+1	+4
+5	+10	+2	+8	+6	+7
+4	+6	+6	+8	+7	+5
+5	+6	+6	+9	+5	+8
+5	+7	-2	+9	+4	+7
+2	0	-2	+2	+2	+4
0	-2	0	0	+1	+3
+3	+4	+4	+6	0	+4
+5	+5	+2	+7	+2	+7
+3	+2	+8	+8	+3	+5
+6	+7	+6	+9	+4	+6
+6	+6	-4	+2	+5	+5
+2	+2	+2	0	-2	+3
+10	+10	+1	+12	+3	+6
+8	+7	+4	+9	+2	+7
+9	+1	+6	+11	+4	+7
5-10	6-1	5-25	5-15	5-24	5-12
133	112	114	130	125	127

PRELIMINARY TEST IIB, 1984

LODGING (score)

Strain	Mean 10 Tests	Ames, IA	Marshalltown, IA	Urbana, IL	Lafayette, IN
Century	1.6	1.5	2.5	1.0	1.3
Elgin (II)	1.8	1.5	3.4	1.0	1.3
Hardin (I)	1.8	2.7	2.5	1.0	1.3
Pella (III)	1.7	2.0	2.8	1.0	1.3
C1650	1.6	1.6	2.9	1.0	1.5
C1651	1.2	1.3	1.7	1.0	1.0
C1658	1.5	1.6	3.0	1.0	1.3
C1660	1.3	1.5	2.2	1.0	1.0
HW8185-6	1.4	1.5	2.3	1.0	1.0
LN80-10364	1.5	1.9	2.1	1.0	1.3
LN80-10508	1.7	2.0	2.8	1.0	1.0
LN81-433	2.2	1.9	3.1	1.0	1.8
LN81-1029	1.4	1.7	2.5	1.0	1.0
LN81-2090	1.9	1.9	3.2	1.0	2.0
LN81-4098	1.4	1.4	2.0	1.0	1.0
U80-65127	2.1	2.5	3.4	1.0	2.0
Gnome	1.3	1.3	1.4	1.0	1.0
HC79-3100	1.2	1.3	1.3	1.0	1.0
HC80-1755	1.3	1.3	1.4	1.0	1.0
HC80-1756	1.2	1.3	1.4	1.0	1.0
HC80-1938	1.2	1.3	1.3	1.0	1.0
HC80-1942	1.2	1.3	1.3	1.0	1.0
HC80-1944	1.2	1.3	1.4	1.0	1.0
HC80-1946	1.2	1.3	1.4	1.0	1.0
HC80-2479	1.3	1.3	1.3	1.0	1.3
HC80-2649	1.2	1.3	1.3	1.0	1.0
HC81-1730	1.5	1.4	1.4	1.0	1.3
HC81-2132	1.6	2.0	3.1	1.0	1.0
L82-3713	1.5	1.4	2.0	1.0	1.3
L82-3813	1.9	1.7	3.0	1.0	1.0

PRELIMINARY TEST IIB, 1984

LODGING (score)

Britton, MI	Mead, NE	Adelphia, NJ	Hoytville, OH	Centerville SD	Arlington, WI
3.0	1.0	1.5	1.4	1.0	2.0
3.5	1.3	1.5	1.3	1.0	2.0
2.5	1.0	2.5	1.3	1.0	2.0
2.0	1.5	1.5	1.2	1.0	2.3
3.0	1.0	1.0	1.2	1.0	1.8
1.5	1.0	1.0	1.2	1.0	1.3
1.5	1.0	1.5	1.4	1.0	1.8
2.0	1.0	1.0	1.1	1.0	1.5
1.5	1.0	1.0	1.5	1.0	1.8
2.5	1.0	1.5	1.3	1.0	1.8
2.5	1.0	2.0	1.5	1.0	1.8
4.0	1.5	2.5	2.1	1.0	2.8
2.0	1.0	1.5	1.1	1.0	1.5
4.0	1.3	1.0	1.8	1.0	2.0
3.0	1.0	1.0	1.2	1.0	1.8
2.5	2.3	2.0	1.3	1.0	2.8
2.0	1.0	1.0	1.0	1.0	2.5
1.0	1.0	1.0	1.1	1.0	2.5
1.5	1.0	1.0	1.0	1.0	2.5
1.0	1.0	1.0	1.0	1.0	1.8
1.0	1.0	1.0	1.0	1.0	2.0
1.5	1.0	1.0	1.0	1.0	2.0
1.0	1.0	1.0	1.0	1.0	2.0
1.0	1.0	1.0	1.0	1.0	2.5
1.5	1.0	1.0	1.0	1.0	2.3
1.0	1.0	1.0	1.0	1.0	2.0
2.5	1.0	1.5	1.0	1.0	2.5
2.5	1.0	1.0	1.1	1.0	2.3
3.0	1.0	1.0	1.0	1.0	2.3
3.0	1.0	4.0	1.0	1.0	2.0

PRELIMINARY TEST IIB, 1984

PLANT HEIGHT (Inches)

Strain	Mean 10 Tests	Ames, IA	Marshalltown, IA	Urbana, IL	Lafayette, IN
Century	35	42	44	31	46
Elgin (II)	31	39	36	30	37
Hardin (I)	32	41	37	28	42
Pella (III)	37	40	40	37	46
C1650	35	42	40	32	45
C1651	33	36	39	30	40
C1658	33	38	39	31	38
C1660	32	38	36	29	42
HW8185-6	33	42	37	31	44
LN80-10364	38	44	40	35	47
LN80-10508	37	44	43	34	48
LN81-433	36	40	39	37	39
LN81-1029	36	44	44	34	42
LN81-2090	37	41	40	33	45
LN81-4098	36	40	44	33	44
U80-65127	40	42	47	39	50
Gnome	22	28	25	22	28
HC79-3100	22	26	26	19	29
HC80-1755	21	26	24	22	26
HC80-1756	23	26	24	23	33
HC80-1938	22	25	24	22	28
HC80-1942	21	24	22	22	27
HC80-1944	22	27	24	23	28
HC80-1946	23	28	27	24	28
HC80-2479	20	25	24	22	25
HC80-2649	23	27	28	20	29
HC81-1730	21	24	23	20	25
HC81-2132	29	39	32	25	38
L82-3713	28	38	35	24	35
L82-3813	33	40	36	27	41

PRELIMINARY TEST IIB, 1984

PLANT HEIGHT (inches)

Britton, MI	Mead, NE	Adelphia, NJ	Hoytville, OH	Centerville SD	Arlington, WI
29	27	36	23	35	36
29	30	31	23	31	28
31	16	34	22	30	37
36	34	38	27	38	38
35	31	36	23	34	33
33	28	32	24	32	31
27	28	34	29	30	33
31	30	32	21	33	31
29	27	34	27	32	31
38	31	39	29	34	39
34	29	38	27	34	37
38	32	36	26	35	36
33	31	34	23	34	37
35	33	42	29	35	40
36	34	38	23	31	35
39	36	42	25	36	41
18	19	24	11	21	25
20	17	24	10	24	27
23	18	22	7	19	27
23	19	22	9	21	28
21	20	22	8	20	27
21	17	22	6	19	27
18	20	24	10	23	26
22	22	21	8	19	30
18	18	20	10	18	24
20	19	20	12	22	28
21	16	24	10	18	26
27	27	30	14	28	32
24	22	30	12	26	34
27	26	42	21	29	38

PRELIMINARY TEST IIB, 1984

SEED QUALITY (score)

Strain	Mean 8 Tests	Ames, IA	Marshalltown, IA	Urbana, IL	Lafayette, IN
Century	1.6	1.3		1.4	1.5
Elgin (II)	1.7	1.2		1.3	1.5
Hardin (I)	1.8	1.5		1.7	2.0
Pella (III)	1.9	1.3		1.4	1.5
C1650	2.2	1.3		1.7	1.5
C1651	1.7	1.5		1.1	1.5
C1658	1.6	1.3		1.2	1.0
C1660	1.6	1.4		1.5	1.5
HW8185-6	1.6	1.3		1.4	1.5
LN80-10364	1.9	1.4		1.8	1.0
LN80-10508	1.6	1.4		1.1	1.5
LN81-433	1.8	1.4		1.5	1.5
LN81-1029	1.6	1.4		1.4	1.0
LN81-2090	1.8	1.4		1.3	1.0
LN81-4098	2.0	1.6		1.3	1.5
U80-65127	2.0	1.5		1.2	1.5
Gnome	1.7	1.4		1.1	1.0
HC79-3100	2.0	2.0		1.5	1.0
HC80-1755	1.6	1.6		1.2	1.0
HC80-1756	1.7	1.5		1.2	1.5
HC80-1938	1.8	1.4		1.3	1.5
HC80-1942	1.6	1.3		1.3	1.0
HC80-1944	1.7	1.6		1.3	1.0
HC80-1946	1.7	1.3		1.3	1.0
HC80-2479	1.8	1.5		1.1	1.0
HC80-2649	1.7	1.5		1.1	1.0
HC81-1730	2.0	1.6		1.7	1.5
HC81-2132	1.8	1.5		1.2	1.0
L82-3713	1.7	1.4		1.1	1.0
L82-3813	1.7	1.6		1.1	1.0

PRELIMINARY TEST IIB, 1984

SEED QUALITY (score)

Britton, MI	Mead, NE	Adelphia, NJ	Hoytville, OH	Centerville SD	Arlington, WI
	2.0	1.0	1.6	2.0	2.0
	1.5	1.5	2.3	2.0	2.0
	2.0	1.5	2.0	2.0	2.0
	1.8	1.5	2.3	3.0	2.0
	2.3	1.5	2.9	3.0	3.0
	2.0	1.0	1.8	3.0	2.0
	2.0	1.0	1.5	3.0	2.0
	1.8	1.0	1.7	2.0	1.5
	2.0	1.0	2.1	2.0	1.8
	2.0	2.0	2.4	2.0	2.3
	1.8	1.0	2.0	2.0	2.0
	1.5	1.0	1.8	3.0	3.0
	1.8	1.0	2.1	2.0	2.0
	1.5	1.5	2.3	3.0	2.3
	2.0	1.0	2.6	3.0	3.0
	1.8	2.0	1.8	4.0	2.2
	1.5	1.0	1.5	3.0	3.0
	1.8	1.0	1.5	4.0	3.0
	2.0	1.0	1.7	2.0	2.5
	1.8	1.0	1.9	3.0	2.0
	1.5	1.0	2.0	3.0	2.3
	1.8	1.0	1.8	2.0	2.3
	2.0	1.0	2.0	2.0	2.8
	1.8	1.0	2.1	3.0	2.3
	1.5	1.0	1.6	4.0	2.8
	1.3	1.5	1.4	3.0	2.5
	2.0	1.0	2.0	3.0	2.8
	1.8	1.0	1.8	3.0	2.8
	1.5	1.0	1.7	3.0	2.5
	1.5	1.5	1.3	3.0	2.5

PRELIMINARY TEST IIB, 1984

SEED SIZE (g/100)

Strain	Mean 8 Tests	Ames, IA	Marshalltown, IA	Urbana, IL	Lafayette, IN
Century	17.6	15.7		16.5	16.8
Elgin (II)	15.8	13.8		15.1	16.6
Hardin (I)	16.4	13.8		17.0	17.0
Pella (III)	18.6	15.8		18.0	20.2
C1650	16.7	13.0		17.6	17.9
C1651	17.2	15.2		17.1	19.8
C1658	17.8	15.6		18.9	18.4
C1660	14.8	12.4		16.5	16.2
HW8185-6	17.4	15.0		18.3	17.3
LN80-10364	18.8	15.8		19.6	20.0
LN80-10508	17.1	15.0		18.9	17.6
LN81-433	18.0	15.8		19.1	17.6
LN81-1029	16.9	14.4		17.5	18.5
LN81-2090	16.3	14.8		16.6	17.2
LN81-4098	19.0	15.9		20.7	20.6
U80-65127	15.6	13.4		15.7	16.8
Gnome	15.2	13.0		15.1	16.2
HC79-3100	13.9	11.4		15.1	13.7
HC80-1755	16.9	14.7		16.6	16.8
HC80-1756	15.7	12.8		16.1	15.9
HC80-1938	16.5	14.2		18.0	16.9
HC80-1942	16.7	15.0		16.4	16.0
HC80-1944	17.1	15.7		17.0	15.8
HC80-1946	16.3	15.0		16.9	15.8
HC80-2479	14.8	12.0		13.0	14.6
HC80-2649	16.5	14.4		15.8	16.5
HC81-1730	17.2	14.4		16.7	17.5
HC81-2132	15.1	13.2		13.8	16.4
L82-3713	17.0	14.5		17.3	16.2
L82-3813	14.7	12.0		13.9	15.6

PRELIMINARY TEST IIB, 1984

SEED SIZE (g/100)

Britton, MI	Mead, NE	Adelphia, NJ	Hoytville, OH	Centerville SD	Arlington, WI
21.9	18.2		16.8	17.0	17.7
20.0	15.9		15.4	14.1	15.4
19.4	18.9		15.6	15.5	13.9
23.4	18.8		18.2	17.6	16.9
20.5	17.1		16.7	16.1	14.9
21.3	16.6		16.5	14.7	16.5
21.4	17.4		17.8	16.3	16.6
17.7	14.9		14.7	13.6	12.2
21.9	17.5		16.1	14.9	18.0
24.6	17.8		17.4	17.6	17.8
20.8	15.6		15.8	16.1	16.8
23.4	16.6		16.8	16.8	17.7
19.0	16.9		17.7	15.5	15.4
19.3	16.7		15.2	15.3	15.3
23.9	19.1		18.0	16.8	17.2
20.5	14.2		15.3	15.0	14.0
19.5	13.4		16.0	14.2	14.0
15.9	14.0		14.6	13.3	13.1
19.3	18.8		16.3	18.1	14.6
18.3	17.0		15.8	15.3	14.2
19.1	17.2		14.6	17.6	14.3
19.9	18.2		17.4	15.9	14.8
19.5	18.4		17.2	18.2	14.9
19.0	17.2		17.0	15.1	14.4
17.3	15.1		15.8	17.1	13.8
20.0	15.9		20.3	14.2	14.6
20.4	18.9		16.3	19.4	14.0
17.4	15.8		16.0	14.8	13.0
18.5	17.5		20.1	17.0	15.2
18.2	16.3		15.2	13.4	12.6

PRELIMINARY TEST IIB, 1984

PROTEIN (%)

Strain	Mean 4 Tests	Ames, IA	Urbana, IL	Mead, NE	Hoytville, OH
Century	39.9	39.6	39.3	42.0	38.7
Elgin (II)	37.2	39.7	36.1	37.5	35.5
Hardin (I)	38.8	39.2	35.6	42.7	37.6
Pella (III)	38.0	38.0	38.7	38.8	36.5
C1650	39.3	40.7	37.3	40.6	38.5
C1651	40.5	40.3	39.6	42.1	40.0
C1658	43.2	42.7	42.0	44.2	43.8
C1660	39.5	41.2	38.1	40.1	38.5
HW8185-6	41.5	41.8	40.4	43.0	40.7
LN80-10364	39.7	40.7	39.9	40.2	38.1
LN80-10508	39.6	40.4	40.0	39.5	38.4
LN81-433	39.9	39.9	40.9	40.2	38.6
LN81-1029	39.7	40.3	37.8	40.6	39.3
LN81-2090	43.0	42.9	42.9	43.2	42.8
LN81-4098	39.6	39.3	39.4	40.0	39.6
U80-65127	38.3	38.8	37.9	39.7	36.9
Gnome	40.6	42.5	40.2	39.4	40.3
HC79-3100	42.0	42.9	42.5	41.1	41.3
HC80-1755	41.1	41.8	40.6	41.8	40.1
HC80-1756	41.2	42.3	40.2	41.5	40.8
HC80-1938	40.7	41.3	39.7	41.7	39.9
HC80-1942	41.3	42.0	40.9	41.2	41.1
HC80-1944	42.4	43.2	41.3	42.7	42.3
HC80-1946	41.3	42.0	39.9	42.1	41.1
HC80-2479	41.2	43.4	41.0	40.3	40.1
HC80-2649	40.4	41.0	40.4	39.9	40.4
HC81-1730	40.4	39.9	39.2	42.2	40.4
HC81-2132	40.6	40.9	40.4	40.2	40.9
L82-3713	41.0	41.5	40.1	41.4	41.0
L82-3813	41.5	41.5	41.3	41.5	41.8

PRELIMINARY TEST IIB, 1984

OIL (%)

Strain	Mean 4 Tests	Ames, IA	Urbana, IL	Mead, NE	Hoytville, OH
Century	21.5	21.5	22.3	20.3	21.8
Elgin (II)	22.2	20.6	24.7	21.5	22.0
Hardin (I)	22.2	22.1	24.4	20.0	22.2
Pella (III)	21.8	22.2	22.5	21.1	21.5
C1650	20.7	19.9	22.9	19.5	20.4
C1651	20.8	21.1	22.0	19.5	20.4
C1658	19.7	20.1	20.7	19.1	19.0
C1660	20.9	20.3	22.3	20.7	20.1
HW8185-6	20.5	20.8	21.1	20.1	20.0
LN80-10364	20.8	20.4	22.0	20.1	20.5
LN80-10508	21.5	20.9	22.0	21.4	21.5
LN81-433	20.9	21.8	21.4	20.1	20.2
LN81-1029	21.4	21.5	23.0	20.6	20.4
LN81-2090	19.9	19.5	20.8	20.1	19.2
LN81-4098	21.7	22.0	22.5	21.3	20.9
U80-65127	21.9	21.6	23.4	20.7	22.0
Gnome	21.0	19.7	22.5	21.0	20.6
HC79-3100	20.5	19.8	20.9	20.4	20.9
HC80-1755	20.6	20.6	21.5	19.6	20.6
HC80-1756	20.5	19.3	22.0	20.2	20.3
HC80-1938	20.9	20.8	22.1	20.3	20.3
HC80-1942	20.7	20.1	21.9	20.5	20.4
HC80-1944	19.9	19.1	21.8	19.4	19.3
HC80-1946	21.0	20.2	22.4	20.7	20.5
HC80-2479	19.9	18.2	21.3	20.0	19.9
HC80-2649	20.7	20.1	21.9	20.2	20.5
HC81-1730	22.6	23.2	23.3	21.9	22.1
HC81-2132	20.6	20.3	22.2	20.4	19.6
L82-3713	19.7	19.4	22.1	18.8	18.5
L82-3813	19.6	19.0	21.1	19.6	18.8

UNIFORM TEST III, 1984

	Strain	Parentage	Previous* Testing	Generation Composited
1.	A8	(Beeson x AP68-1016) x (L15 x Calland)	-	F_4
2.	Century (II)	Calland x Bonus	5	F_6
3.	Fayette	Williams^2 x PI 88.788	3	F_4
4.	Harper (III)	Unknown	3	F_4
5.	Hobbit	Williams x Ransom	6	F_5
6.	Pella	L66L-137 x Calland	8	F_4
7.	Sparks (IV)	Williams x Calland	1	F_6
8.	Williams 82	Williams^7 x Kingwa	4	$4BC_6$ F_3
9.	A82-361011	Asgrow A3585 x NAPB HP20-20	P IIIA	F_4
10.	A82-363032	A76-202015 x Century	P IIIA	F_4
11.	A82-365028	Asgrow A3585 x Tri-Valley Charger	P IIIA	F_4
12.	C1623	Harcor x L69U37-17-5	P IIIB	F_5
13.	C1631	Hodgson x Cumberland	P IIIB	F_5
14.	HC74-634 RE	Williams x Ransom	1	F_8
15.	HC78-676	L70T-543G x L74D-619	2	F_5
16.	HC79-2562	L74D200 x Elf	P IIB	F_5
17.	HC80-969	Gnome x Sprite	P IIB	F_5
18.	HC80-976	Gnome x Sprite	P IIB	F_5
19.	HC80-1054	Weber x Sprite	P IIB	F_5
20.	HW8033	Cumberland x Pella	2	F_5
21.	HW8067	A72-512 x Pella	2	F_5
22.	HW8233	(Pella x Cumberland) x (Tracy x Williams)	P IIIB	F_5
23.	HW8235	Century x (Tracy x Williams)	P IIIB	F_5
24.	HW8236	Hobbit EMS Isoline	P IIIA	M_3
25.	HW8241	Century x (Tracy x Williams)	P IV	F_5
26.	L80-3049	Williams^2 x PI 88.788	P IIIB	F_6
27.	L80-3778	Williams^2 x Raiden (PI 360.844)	P IIIB	F_7
28.	L80-4323	Williams^2 x PI 88.788	1	F_6
29.	LN80-8259	A76-304020 x Land O'Lakes Max	P IIIB	F_4
30.	LN80-8478	A76-304020 x Land O'Lakes Max	P IV	F_4
31.	LN80-8653	Schechinger S48 x A76-304020	P IIIB	F_4
32.	LN80-8659	Schechinger S48 x A76-304020	P IV	F_4

*Number of years in test or name of 1982 test.

UNIFORM TEST III, 1984

Descriptive and Other Data

Strain	Descriptive Code		Chlorosis Score	Emergence Score	Shattering Score		
			Ames	Ames	Belleville	Columbia	Manhattan
A8	WTBrSYBr	I	3.0	5	1.3	1.0	4.0
Century (II)	PTBrSYBI	I	2.0	5	5.0	1.9	2.0
Fayette	WTT SYBI	I	4.2	2	2.3	1.0	2.0
Harper (III)	PTBrSYBI	I	3.2	5	1.0	1.0	1.0
Hobbit	WTT SYBI	D	2.8	1	1.0	1.0	1.0
Pella	PTT SYBI	I	4.0	3	2.0	1.1	1.0
Sparks (IV)	WTT SYBI	I	3.2	3	1.3	1.3	-
Williams 82	WTT SYBI	I	3.0	4	1.7	1.0	1.0
A82-361011	PTBrDYBI	I	3.8	1	1.7	1.0	3.0
A82-363032	WTBrDYBr	I	4.5	1	1.0	1.0	1.0
A82-365028	PTT IYBr	I	3.8	1	2.0	1.1	1.0
C1623	PGBrSYBf+BI	I	3.2	1	1.7	1.0	1.0
C1631	PGT IYBf	I	4.0	5	1.7	1.0	1.0
HC74-634 RE	WTT SYBI	D	3.5	1	1.0	1.3	1.0
HC78-676	PTBrSYBr	D	3.2	2	2.0	1.0	-
HC79-2562	PTT SYBI	D	2.5	4	1.7	1.8	1.0
HC80-969	PTT SYBI	D	5.0	2	1.7	1.3	1.0
HC80-976	WTT SYBI	D	2.8	1	1.7	1.1	1.0
HC80-1054	WTT DYBI	D	2.0	2	1.3	1.0	1.0
HW8033 Zane	PGBrIYIb	I	2.8	5	3.0	1.0	2.0
HW8067	WGBrSYBf	I	3.5	5	2.0	1.0	2.0
HW8233	WTT SYBI	I	5.0	1	2.0	1.6	1.0
HW8235	P+WTBrSYBI	I	3.5	2	1.7	1.3	-
HW8236	WTT SYBI	D	2.5	1	1.0	1.0	1.0
HW8241	PTT SYBI	I	3.5	1	1.3	1.0	1.0
L80-3049	WTT SYBI	I	3.5	3	3.7	1.1	2.0
L80-3778	WTT SYBI	I	3.0	2	3.0	1.3	1.0
L80-4323	WTT SYBI	I	4.0	1	3.0	1.1	1.0
LN80-8259	PTBrSYBI	I	3.0	1	4.0	1.8	2.0
LN80-8478	PTBrSYBI	I	2.5	2	2.7	1.1	2.0
LN80-8653	PGBrIYGr	I	3.8	1	2.7	1.4	1.0
LN80-8659	PTBrIYY+Gr	I	3.5	1	2.7	1.1	2.0

UNIFORM TEST III, 1984

Disease Data

Strain	BSR Ames Plant N %	BSR Ames Stem N %	BTS Ames a Score	FE Lafayette Race 2 Score	PR Ames Race 4 a Reaction	PR Lafayette Race 1 Reaction
A8	-	-	5	1	S	R
Century (II)	-	-	3	4	R(?)	R
Fayette	-	-	4	3	S	R
Harper (III)	-	-	4	3	S	S
Hobbit	-	-	3	2	I	S
Pella	-	-	4	1	S	R
Sparks (IV)	-	-	3	5	S	R
Williams 82	-	-	3	2	R	R
A82-361011	-	-	4	4	S	S
A82-363032	-	-	4	5	R	S
A82-365028	-	-	3	1	S	S
C1623	-	-	3	3	S	R
C1631	-	-	3	1	S	S
HC74-634 RE	-	-	3	1	S	S
HC78-676	-	-	3	1	S	R
HC79-2562	-	-	3	1	R	R
HC80-969	-	-	3	1	S	S
HC80-976	-	-	2	2	S	S
HC80-1054	-	-	2	2	S	S
HW8033 Zane	-	-	3	1	S	S
HW8067	-	-	3	1	S	S
HW8233	-	-	3	3	R	R
HW8235	-	-	3	4	R	R
HW8236	-	-	3	2	S	S
HW8241	-	-	3	4	R	R
L80-3049	-	-	4	1	S	S
L80-3778	-	-	4	2	S	S
L80-4323	50	6.6	4	1	S	R
LN80-8259	20	2.6	4	1	S	R
LN80-8478	50	6.4	3	1	S	R
LN80-8653	20	4.5	4	3	S	R
LN80-8659	20	10.7	3	3	S	R

UNIFORM TEST III, 1984

Disease Data

PR		PS	PSB	SMV	GERM
Hoytville	Vickery	Lafayette			
Stand Score	Tolerance Score	a %	n %	a Score	%
3.9	2.8	56	32	4E	58
3.8	3.8	63	46	4E	47
2.1	2.4	33	13	4E	62
4.5	3.3	27	18	5E	67
4.3	3.5	46	49	5M	38
4.1	2.8	48	43	5E	45
1.9	2.6	43	13	5E	77
1.4	2.0	35	20	4E	72
3.0	3.4	59	16	5E	50
2.8	2.8	46	37	5E	48
4.0	2.8	53	9	4E	86
4.7	4.1	69	9	5E	75
2.6	3.3	33	24	5E	60
3.2	3.9	59	34	5E	51
4.4	3.4	29	25	3E	57
3.3	3.6	65	12	5E	44
3.9	3.9	32	45	1	40
3.8	3.6	55	67	1	26
4.4	4.8	40	81	5E	13
3.9	2.8	51	55	2E	27
2.0	3.8	43	38	1	35
1.4	2.5	50	49	3E	36
1.2	2.0	45	38	5E	54
4.8	3.8	52	68	1	22
1.5	2.6	40	42	3E	58
3.1	2.6	48	41	2E	48
4.4	4.5	51	49	5E	44
2.3	3.3	40	36	1	52
3.5	3.4	38	9	5E	62
4.4	3.8	38	17	5E	60
3.6	4.6	48	20	5E	64
3.6	2.9	57	11	5E	64

UNIFORM TEST III, 1984

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	18	5	5
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
A8	44.4	17	-0.1	1.5	33	2.0	16.0	40.9	21.2
Century (II)	41.4	27	-8.0	1.5	33	2.0	16.8	41.4	21.1
Fayette	44.5	15	+4.8	2.1	41	1.8	15.2	41.0	21.3
Harper (III)	45.3	11	9-21.2*	1.3	34	1.9	18.8	39.9	21.7
Hobbit	42.5	24	-1.1	1.2	21	1.6	15.3	38.8	22.8
Pella	43.4	22	-3.6	1.6	36	2.1	18.3	39.1	22.3
Sparks (IV)	42.5	24	+7.0	2.3	41	2.0	16.2	38.2	21.7
Williams 82	46.4	3	+4.3	1.8	40	1.7	16.5	40.7	21.7
A82-361011	45.7	9	-4.2	1.9	38	2.1	17.1	38.6	22.5
A82-363032	44.4	17	+3.0	2.1	36	1.7	15.6	39.8	22.1
A82-365028	46.5	2	+2.4	1.7	39	1.9	16.0	38.7	22.8
C1623	45.1	13	+2.3	2.6	38	2.2	15.9	38.9	20.9
C1631	46.3	5	+0.4	1.9	38	1.8	18.2	40.2	21.2
HC74-634 RE	44.5	15	+2.2	1.2	22	1.5	18.2	41.8	21.3
HC78-676	43.5	21	+0.4	1.4	23	1.9	15.3	40.2	21.4
HC79-2562	42.1	26	-4.5	1.1	20	1.9	15.7	42.3	21.3
HC80-969	39.7	31	-3.7	1.1	19	1.9	16.6	39.3	22.7
HC80-976	40.1	30	-5.1	1.3	21	1.6	14.5	40.3	22.4
HC80-1054	37.7	32	-2.3	1.1	19	1.9	15.2	39.9	22.4
HW8033 Zane	46.2	6	-5.5	1.5	34	2.2	19.3	39.6	22.8
HW8067	49.8	1	-1.1	19	32	1.6	15.5	39.6	22.4
HW8233	45.9	8	-1.1	2.1	36	2.1	19.3	42.3	21.1
HW8235	46.0	7	+3.9	1.7	37	1.6	17.7	41.7	20.7
HW8236	41.4	27	-1.6	1.1	19	1.8	16.1	37.4	23.6
HW8241	44.4	17	+1.9	1.7	34	1.9	16.0	40.7	20.5
L80-3049	43.2	23	-4.5	1.7	34	2.0	16.3	41.5	21.7
L80-3778	40.8	29	-3.9	1.3	31	2.1	18.7	38.9	22.0
L80-4323	45.2	12	-0.9	1.6	36	1.8	15.7	41.1	21.5
LN80-8259	45.4	10	-3.0	2.0	36	2.1	15.5	39.5	21.0
LN80-8478	46.4	3	+1.5	2.2	38	1.9	17.1	40.2	21.0
LN80-8653	44.1	20	-0.4	2.1	39	2.0	17.1	40.2	21.3
LN80-8659	45.0	14	+4.3	2.6	38	2.2	15.1	41.2	20.6

*123 days after planting

UNIFORM TEST III

1983-1984 2-Year Mean

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	42 bu/a	42 No.	39 Date	44 Score	44 In.	41 Score	39 g/100	10 %	10 %
Century (II)	38.9	12	-7.5	1.4	31	2.5	16.6	41.4	21.4
Fayette	40.4	10	+3.5	2.1	39	2.0	15.0	41.3	21.4
Harper (III)	42.9	3	9-22.1*	1.2	32	2.1	18.5	40.4	21.8
Hobbit	39.9	11	-1.0	1.2	21	1.9	14.7	38.4	23.1
Pella	41.3	8	-2.9	1.4	35	2.3	17.7	39.0	22.6
Sparks (IV)	41.0	9	+5.8	2.3	40	2.3	15.8	39.2	21.8
Williams 82	42.6	4	+3.5	1.6	38	1.9	15.8	40.9	21.9
Zane (HW8033)	43.2	2	-4.1	1.4	33	2.5	18.4	40.0	22.8
HC74-634 RE	42.5	5	+1.3	1.2	22	1.8	17.4	41.7	21.8
HC78-676	41.9	7	+0.4	1.4	24	2.4	15.0	40.6	21.6
HW8067	45.0	1	-0.5	1.7	31	2.0	14.9	40.0	22.6
L80-4323	42.1	6	-0.7	1.4	34	2.0	15.4	41.4	21.6

*122 days after planting

1982-1984 3-Year Mean

No. of Tests	67	67	63	69	69	65	63	15	15
Century (II)	41.3	9	-6.6	1.6	32	2.4	16.9	41.7	20.1
Fayette	42.3	8	+3.4	1.9	39	1.8	15.2	41.1	20.3
Harper (III)	45.7	2	9-21.8*	1.4	33	1.9	18.4	40.5	20.6
Hobbit	42.8	7	-0.1	1.3	22	1.8	14.9	38.4	22.0
Pella	44.2	6	-2.6	1.5	35	2.1	17.9	38.9	21.4
Williams 82	44.4	4	+3.0	1.7	38	1.7	16.0	40.9	20.7
Zane	45.7	2	-3.7	1.5	33	2.3	18.5	39.9	21.5
HC78-676	44.3	5	+0.9	1.5	24	2.1	15.2	40.7	20.3
HW8067	46.8	1	0.0	1.8	31	1.9	15.0	40.2	21.5

*123 days after planting

The strain HW8067 has the highest average yield of the past two and 3 years of any entry in the test, due primarily to its excellent performance in 1984. The SCN races 3 and 4 resistant strain L80-4323 have averaged slightly above Fayette in yield, matures about 4 days earlier and has better lodging resistance than Fayette. The SCN races 3 and 4 resistant strain L80-3049 is a very early Group III strain that has good agronomic characteristics and is resistant to race 1 of P. megasperma f. sp. glycinea. The strain HW8235 had a PR tolerance score equal to that of Williams 82. HC74-634 RE was the only determinate strain that was appreciably better than Hobbit in seed yield.

UNIFORM TEST III, 1984

YIELD (bu/a)

Strain	Mean 20 Tests	Ottumwa, IA	Stuart, IA	Belleville, IL	Eldorado, IL	Girard, IL	Pontiac, IL	Urbana, IL
A8	44.4	46.9	34.1	42.0	48.1	39.0	26.4	64.6
Century (II)	41.4	39.8	33.8	36.1	37.7	40.5	21.0	60.6
Fayette	44.5	37.6	30.2	52.7	44.4	39.5	25.4	59.8
Harper (III)	45.3	42.1	37.1	52.6	53.0	41.1	24.7	64.6
Hobbit	42.5	39.6	33.9	36.6	48.0	43.7	26.9	55.8
Pella	43.4	39.0	34.2	41.5	42.5	39.1	24.7	56.9
Sparks (IV)	42.5	34.7	33.8	46.6	42.3	34.4	20.2	56.1
Williams 82	46.4	35.3	30.7	54.4	45.6	37.3	21.5	59.2
A82-361011	45.7	40.4	31.6	46.7	50.7	40.5	27.1	61.5
A82-363032	44.4	36.6	32.4	47.7	49.2	38.7	23.4	59.4
A82-365028	46.5	41.4	33.8	49.0	51.1	41.0	25.9	61.4
C1623	45.1	39.1	35.4	58.1	48.9	42.0	23.8	55.8
C1631	46.3	45.4	35.9	53.0	45.4	37.6	28.3	61.8
HC74-634 RE	44.5	40.3	36.1	44.7	45.5	40.8	25.3	61.2
HC78-676	43.5	37.4	33.8	55.7	52.4	44.2	25.8	61.8
HC79-2562	42.1	38.5	33.6	46.0	44.2	41.5	25.8	53.0
HC80-969	39.7	37.6	32.6	38.2	39.0	41.3	25.8	45.9
HC80-976	40.1	39.8	31.9	43.2	41.0	39.3	24.4	50.1
HC80-1054	37.7	35.8	36.3	38.3	38.5	41.3	25.4	48.4
HW8033 Zane	46.2	41.5	36.2	44.0	52.8	42.2	26.1	63.5
HW8067	49.8	43.4	38.6	54.6	55.8	46.4	36.1	69.0
HW8233	45.9	42.5	33.8	46.7	51.7	46.2	28.2	63.3
HW8235	46.0	32.7	33.7	52.3	51.7	42.3	22.4	59.5
HW8236	41.4	38.9	35.0	35.9	46.6	42.6	26.3	56.7
HW8241	44.4	34.6	29.4	40.8	51.9	44.9	24.7	60.3
L80-3049	43.2	39.7	32.0	42.4	51.6	39.2	26.5	48.9
L80-3778	40.8	36.0	33.6	44.5	47.7	38.6	22.6	50.0
L80-4323	45.2	41.5	31.5	53.4	52.4	35.8	26.1	51.6
LN80-8259	45.4	47.2	34.1	44.0	47.6	40.4	23.7	63.5
LN80-8478	46.4	43.9	35.9	51.6	48.7	42.8	23.9	64.8
LN80-8653	44.1	42.4	36.6	48.1	46.0	39.4	24.0	62.2
LN80-8659	45.0	44.9	33.3	46.5	47.5	40.0	25.4	53.8
C.V. (%)		11.8	5.8	8.8	6.8	10.2	13.0	10.1
L.S.D. (5%)		6.6	2.7	6.7	5.3	6.17	5.2	9.5
Row sp. (in.)		27	27	30	30	30	30	30
Rows/plot		4	4	4	4	4	4	4
Reps		4	4	3	3	3	3	3

[1]Data not included in mean.

UNIFORM TEST III, 1984

YIELD (bu/a)

Greenfield, IN	Lafayette, IN	Sullivan, IN	Manhattan, KS	Topeka, KS	Lexington, KY	Queenstown, MD	Columbia, MO
43.1	53.2	41.8	38.8	46.1	29.2	50.5	34.9
39.3	48.9	37.4	43.4	37.5	30.9	45.7	32.6
45.3	54.3	42.2	37.0	50.7	26.9	39.0	30.2
46.1	56.8	37.9	38.7	55.9	29.3	47.9	34.8
37.5	55.4	32.5	44.9	38.8	33.6	44.3	36.6
53.6	53.3	48.0	43.9	54.6	27.4	43.6	33.4
32.1	52.4	37.3	36.4	55.1	23.9	47.3	22.5
47.1	52.9	58.9	37.9	55.5	30.9	48.6	29.4
43.4	53.7	40.6	41.1	54.6	33.1	49.6	27.4
35.8	50.5	48.8	38.7	40.2	30.3	47.5	27.1
53.5	53.2	48.8	37.4	50.9	33.0	51.7	25.5
41.5	59.3	44.2	36.5	50.7	31.0	45.6	39.4
38.0	58.1	44.7	43.9	46.5	34.8	46.2	33.2
25.4	57.1	42.6	42.2	45.7	34.2	50.0	29.0
37.5	55.6	24.8	34.3	45.5	36.4	52.2	32.1
27.4	51.2	41.9	43.2	16.3	33.0	48.8	23.3
18.5	51.6	32.9	42.3	32.0	34.6	52.7	23.2
21.4	50.3	38.1	36.1	33.9	32.3	43.8	24.4
19.7	44.6	34.7	36.9	30.4	33.4	47.3	23.6
50.9	53.9	52.9	40.8	51.0	38.2	47.9	18.6
39.4	56.1	49.9	44.4	51.6	39.3	50.5	29.9
43.3	54.9	51.7	42.7	46.5	32.5	46.5	13.3
44.1	52.9	62.5	39.7	53.1	30.1	47.3	25.0
17.4	57.6	33.5	44.9	44.8	33.5	46.9	27.3
35.2	54.3	51.4	43.1	50.2	32.3	46.0	27.1
42.7	54.6	44.3	41.8	44.4	32.3	40.7	17.0
37.1	48.8	37.5	34.9	47.5	34.5	47.1	23.0
39.9	53.1	57.2	42.0	49.2	32.2	41.2	27.6
42.8	54.6	46.1	41.8	50.1	34.3	46.5	30.1
45.3	57.2	50.4	43.4	55.4	29.8	42.0	34.7
55.5	54.2	47.0	39.4	47.1	31.1	42.9	24.2
43.1	52.6	45.2	40.0	54.9	31.1	47.3	30.9
21.1	6.6	19.1	9.0	10.2	6.5	6.7	29.5
13.7	5.8	13.9	5.9	7.7	4.3	5.3	11.7
30	24	28	30	30	30	30	30
3	4	3	4	4	4	4	4
3	3	3	3	3	3	3	4

UNIFORM TEST III, 1984

YIELD (bu/a)

Strain	Mead, NE	Adelphia, NJ	Hoytville, OH	Ripley, OH	S. Charleston, OH	Wooster, OH	Landisville, PA
A8	37.1	48.2	24.7	39.7	63.1	41.7	73.0
Century (II)	34.1	38.7	21.8	35.5	64.5	44.2	76.2
Fayette	41.0	45.7	41.1	43.4	60.4	43.4	75.6
Harper (III)	39.2	47.7	18.5	38.0	63.0	44.1	74.3
Hobbit	41.3	45.7	16.9	40.6	62.0	46.5	62.0
Pella	35.2	45.5	11.7	43.1	63.8	42.3	78.0
Sparks (IV)	21.2	46.3	45.2	39.6	64.6	44.9	68.3
Williams 82	41.7	47.1	51.5	38.2	64.7	41.8	73.7
A82-361011	42.9	43.8	31.8	40.3	67.1	44.5	71.6
A82-363032	34.1	46.5	36.7	43.0	65.4	44.4	75.1
A82-365028	44.8	47.8	25.9	40.5	65.7	47.2	79.4
C1623	42.6	48.8	6.3	44.9	64.3	42.5	82.2
C1631	41.5	48.1	35.4	43.3	62.2	45.2	69.3
HC74-634 RE	42.2	46.1	21.9	33.3	60.5	44.4	75.1
HC78-676	41.8	49.8	14.5	40.1	57.0	39.2	67.1
HC79-2562	41.3	49.4	22.3	39.7	61.3	44.8	66.4
HC80-969	40.9	49.8	25.1	37.5	50.7	32.2	52.0
HC80-976	38.3	42.2	20.3	36.0	56.5	41.1	63.2
HC80-1054	25.6	50.2	9.5	28.2	51.4	40.0	58.7
HW8033 Zane	42.8	48.3	26.9	38.8	64.2	45.8	65.8
HW8067	43.3	48.3	43.1	42.2	67.1	42.1	74.2
HW8233	23.5	40.1	51.6	35.0	61.5	43.7	75.1
HW8235	40.9	35.1	46.1	40.6	64.8	41.8	69.7
HW8236	31.9	43.5	11.7	40.4	58.1	39.0	60.7
HW8241	29.9	44.3	34.5	41.5	58.7	40.0	74.5
L80-3049	44.4	46.7	30.9	36.6	59.5	38.6	68.0
L80-3778	39.3	45.6	15.8	30.5	57.3	37.6	66.2
L80-4323	39.4	48.9	37.6	36.4	62.9	35.8	75.7
LN80-8259	39.5	50.9	27.1	37.9	64.7	39.5	75.4
LN80-8478	38.1	51.9	18.0	41.7	63.6	47.4	76.7
LN80-8653	33.4	46.5	28.0	37.0	60.9	45.3	70.8
LN80-8659	34.8	49.4	26.5	37.9	64.5	45.7	79.6
C.V. (%)	12.8	10.6	14.5	17.8	6.2	6.9	7.6
L.S.D. (5%)	7.9	9.7	32.4	11.3	6.3	10.0	8.8
Row sp. (in.)	30	30	30	30	30	30	24
Rows/plot	4	4	4	4	4	4	4
Reps	3	3	3	3	3	3	3

UNIFORM TEST III, 1984

YIELD RANK

	Ottumwa, IA	Stuart, IA	Belleville, IL	Eldorado, IL	Girard, IL	Pontiac, IL	Urbana, IL
17	2	12	25	15	29	7	3
27	15	15	31	32	24	31	14
15	23	31	7	25	31	15	16
11	9	2	8	2	28	19	3
24	18	14	30	16	9	5	23
22	20	11	26	27	30	19	20
24	30	15	17	28	32	32	22
3	29	30	4	22	23	30	19
9	13	28	15	11	12	4	11
17	26	25	13	12	25	27	18
2	12	15	11	10	14	11	12
13	19	9	1	13	22	25	23
5	3	7	6	24	4	2	9
15	14	6	13	23	8	18	13
21	25	15	2	3	3	12	9
26	22	21	19	26	13	12	26
31	23	24	29	30	5	12	32
30	15	27	23	29	16	22	28
32	28	4	28	31	11	15	31
6	10	5	21	3	2	9	5
1	6	1	3	1	1	1	1
8	7	15	15	7	15	3	7
7	32	20	9	7	26	29	17
28	21	10	32	20	10	8	21
17	31	32	27	6	17	19	15
23	17	26	24	9	18	6	30
29	29	21	20	17	6	28	29
12	10	29	5	5	19	9	27
10	1	12	21	18	7	25	5
3	5	7	10	14	27	24	2
20	8	3	12	21	21	23	8
14	4	23	18	19	20	15	25

UNIFORM TEST III, 1984

YIELD RANK

Strain	Green-field, IN	Lafay-ette, IN	Sullivan, IN	Manhattan, KS	Topeka, KS	Lexing-ton, KY	Queens-town, MD	Columbia, MO
A8	12	19	22	21	21	26	4	3
Century (II)	19	30	26	6	28	17	23	8
Fayette	7	13	20	26	12	21	32	11
Harper (III)	6	6	24	22	1	14	10	4
Hobbit	21	9	31	1	27	5	25	2
Pella	2	18	12	4	6	25	27	6
Sparks (IV)	26	25	27	29	4	32	14	29
Williams 82	5	22	2	24	2	29	9	14
A82-361011	10	17	23	16	6	17	7	17
A82-363032	24	28	10	22	26	27	12	19
A82-365028	3	19	10	25	11	15	3	21
C1623	16	1	18	28	12	10	24	1
C1631	20	2	16	4	19	30	21	7
HC74-634 RE	28	5	19	12	22	16	6	15
HC78-676	21	8	32	32	23	4	2	9
HC79-2562	27	27	21	8	32	11	8	26
HC80-969	31	26	30	11	30	12	1	27
HC80-976	29	29	23	30	29	23	26	23
HC80-1054	30	32	28	27	31	12	14	25
HW8033 Zane	4	16	4	17	10	9	10	30
HW8067	18	7	8	3	9	1	4	13
HW8233	11	10	5	10	19	2	19	32
HW8235	9	22	1	19	8	8	14	22
HW8236	32	3	29	1	24	7	18	18
HW8241	25	13	6	9	14	3	22	19
L80-3049	15	11	17	14	25	24	31	31
L80-3778	23	31	25	31	17	28	17	28
L80-4323	17	21	3	13	16	31	30	16
LN80-8259	14	11	14	14	15	19	19	12
LN80-8478	7	4	7	6	3	6	29	5
LN80-8653	1	15	13	20	18	22	28	24
LN80-8659	12	24	15	18	5	20	14	10

UNIFORM TEST III, 1984

YIELD RANK

Mead, NE	Adelphia, NJ	Hoytville, OH	Ripley, OH	S. Charleston, OH	Wooster, OH	Landisville, PA
22	12	19	15	15	20	17
25	31	22	28	9	12	6
13	22	6	2	24	15	8
19	15	24	20	16	13	14
11	22	26	9	19	3	29
23	25	29	4	13	17	4
32	20	4	17	8	8	22
9	16	2	19	6	19	16
4	27	11	13	1	10	18
25	28	8	5	4	11	10
1	14	17	11	3	2	3
6	9	32	1	11	16	1
10	13	9	3	18	7	21
7	21	21	30	23	11	10
8	4	28	14	29	25	24
11	6	20	15	21	9	25
14	4	18	23	32	30	32
20	29	23	27	30	21	28
30	3	31	32	31	23	31
5	10	15	18	12	4	27
3	10	5	6	1	18	15
31	30	1	29	20	14	10
14	32	3	9	5	19	20
28	28	29	12	27	26	30
29	26	10	8	26	22	13
2	17	12	25	25	27	23
18	24	27	31	28	28	26
17	8	7	26	17	29	7
16	2	14	21	6	24	9
21	1	25	7	14	1	5
27	18	13	24	22	6	19
24	6	16	21	9	5	2

UNIFORM TEST III, 1984

MATURITY (date)

Strain	Mean 20 Tests	Ottumwa, IA	Stuart, IA	Belleville, IL	Eldorado, IL	Girard, IL	Pontiac, IL	Urbana, IL
A8	-0.1		0	0	-3	-2	0	+6
Century (II)	-8.0		-7	-10	-9	-8	-7	-1
Fayette	+4.8		+5	+6	+4	+7	+6	+9
Harper (III)	9-21.2		9-17	9-18	9-17	9-13	9-24	9-18
Hobbit	-1.1		-1	+3	0	+2	-3	-1
Pella	-3.6		-4	-4	-5	-4	-6	-3
Sparks (IV)	+7.0		+9	+10	+7	+14	+4	+9
Williams 82	+4.3		+5	+4	+4	+5	+2	+4
A82-361011	-4.2		-3	-5	-4	-6	-5	-1
A82-363032	+3.0		+4	+2	0	+1	-1	+4
A82-365028	+2.4		+2	+1	+1	+4	-1	+5
C1623	+2.3		0	+1	+1	-1	-2	+1
C1631	+0.4		0	+2	0	+3	-3	+8
HC74-634 RE	+2.2		+4	+4	+4	+5	-1	+9
HC78-676	+0.4		-4	+4	0	+2	-1	+7
HC79-2562	-4.5		-3	-3	-3	-4	-4	-6
HC80-969	-3.7		-7	-1	+1	-4	-6	-1
HC80-976	-5.1		-4	-4	-3	-5	-5	-1
HC80-1054	-2.3		-1	+1	+2	-1	-3	-1
HW8033 Zane	-5.5		-8	-9	-5	-5	-7	+1
HW8067	-1.1		-1	-1	-3	-1	-3	+2
HW8233	-1.1		-2	-4	0	0	+1	0
HW8235	+3.9		+4	+2	+2	+6	+2	+7
HW8236	-1.6		-2	+2	0	-1	-3	+1
HW8241	+1.9		0	-1	-1	+4	+2	+4
L80-3049	-4.5		-5	-3	-4	-6	-3	-6
L80-3778	-3.9		-3	-9	-5	-6	-4	-7
L80-4323	-0.9		-2	-2	0	-1	-3	-5
LN80-8259	-3.0		-2	-7	-4	-4	-3	-3
LN80-8478	+1.5		+2	+1	0	+2	-2	-3
LN80-8653	-0.4		0	-3	-1	-1	-2	-3
LN80-8659	+4.3		+5	+1	+1	+7	+4	+1
Date planted	5-21		5-15	5-15	5-31	5-18	6-6	5-7
Days to mature	123		125	126	109	118	110	134

UNIFORM TEST III, 1984

MATURITY (date)

Greenfield, IN	Lafayette, IN	Sullivan, IN	Manhattan, KS	Topeka, KS	Lexington, KS	Queenstown, MD	Columbia, MO
-1	0	-1	-1		0	+1	-2
-6	-8	-10	-13		-6	-7	-12
+3	+5	+5	+1		+9	+3	+3
10-1	9-13	9-16	9-23		9-3	9-25	9-15
-2	+1	-3	-4		-4	-3	-3
-2	-4	-5	-3		-2	-3	-5
+6	+6	+9	+3		+10	+4	+4
+6	+4	+5	+1		+8	+2	+3
-1	-4	-6	-9		-6	0	-5
+3	+2	0	+1		+5	+4	+4
+4	+2	+2	0		+8	+2	0
+4	+2	+2	-1		0	0	+9
+2	0	0	-1		0	+1	+5
+2	+3	+1	+1		+4	+1	+1
+2	+1	-5	-3		0	+2	-2
-6	-3	-6	-8		-4	-1	-10
-3	-3	-7	-7		-6	-4	+1
-6	-5	-8	-4		-3	-8	-7
-5	-1	-3	-7		-3	-2	-3
-6	-5	-7	-8		-6	-4	-6
+1	0	-3	+1		0	0	-1
+3	0	+1	-5		+4	+1	-7
+4	+6	+5	0		+8	+1	+5
-1	-1	-2	-1		-3	-6	0
+5	+4	-2	-1		+4	+1	+1
-6	-3	-4	-10		-4	-4	-10
-2	-7	-7	-9		0	0	-6
+2	0	-3	-4		+3	0	-4
-2	-3	-2	-9		0	0	-8
+2	0	+2	+1		+3	+2	-3
+2	-1	0	-6		0	+1	-4
+4	+3	+3	+1		+5	+3	+2
6-2	5-10	5-25	5-31		5-18	6-12	5-10
121	126	114	115		108	105	128

UNIFORM TEST III, 1984

MATURITY (date)

Strain	Mead, NE	Adelphia, NJ	Hoytville, OH	Ripley, OH	S. Charleston, OH	Wooster, OH	Landisville, PA
A8	-4	+15	-6	-4	+4	-3	0
Century (II)	-11	-18	-12	-7	-1	-5	-2
Fayette	-1	+8	+1	-1	+10	+9	+3
Harper (III)	10-2	10-6	10-4	9-19	9-19	9-25	9-26
Hobbit	-2	+3	-7	-2	+4	+2	-2
Pella	-1	-8	-4	-4	0	-2	-2
Sparks (IV)	+3	+12	+2	-1	+7	+7	+14
Williams 82	0	+9	+1	0	+8	+8	+7
A82-361011	-6	-4	-7	-4	+1	-3	0
A82-363032	-1	+11	+1	0	+6	+5	+9
A82-365028	-3	+6	+2	0	+6	+5	+2
C1623	0	+1	+2	+2	+8	+8	+9
C1631	-2	-13	-3	0	+4	+2	+3
HC74-634 RE	-2	-2	-1	+1	+6	+5	-2
HC78-676	-2	+11	-4	0	+4	-2	-2
HC79-2562	-10	-5	-7	-3	0	-1	-2
HC80-969	-9	-3	-9	+2	-1	-4	-2
HC80-976	-9	-13	-8	-3	+1	-6	-2
HC80-1054	-6	+4	-5	+4	-1	-4	-2
HW8033 Zane	-3	-17	-6	-2	-1	-6	0
HW8067	-3	-7	-7	+1	+2	-1	+2
HW8233	-3	-10	-6	-3	+3	-2	+7
HW8235	+1	-2	-2	0	+9	+7	+12
HW8236	+24*	-5	-6	0	0	-2	-2
HW8241	0	+8	-1	-2	+7	-3	+9
L80-3049	-5	-3	-6	-5	+1	-5	+2
L80-3778	-2	-6	+1	-3	0	-4	+1
L80-4323	-4	+8	-4	-2	+3	-1	+1
LN80-8259	-6	+2	-8	-1	-1	-1	+3
LN80-8478	-1	+14	0	-2	+3	-8	+12
LN80-8653	-4	+8	-3	-1	+4	-1	+7
LN80-8659	-1	+19	+1	-3	+9	+8	+9
Date planted	5-31	5-25	5-15	5-14	5-2	5-15	5-25
Days to mature	124	134	142	128	140	133	124

*Not included in mean

UNIFORM TEST III, 1984

LODGING (score)

Mean 22 Tests	Ottumwa, IA	Stuart, IA	Belleville, IL	Eldorado, IL	Girard, IL	Pontiac, IL	Urbana, IL
1.5	2.8	1.6	1.3	1.3	1.0	1.0	1.0
1.5	4.5	2.1	1.8	1.3	1.1	1.0	1.0
2.1	4.0	1.8	3.0	1.4	1.2	1.2	1.0
1.3	2.5	1.5	1.3	1.2	1.0	1.0	1.0
1.2	1.5	1.7	1.1	1.0	1.0	1.0	1.0
1.6	3.1	1.7	1.4	1.3	1.2	1.0	1.0
2.3	4.5	2.1	2.7	1.9	1.7	1.5	1.7
1.8	4.2	1.8	2.4	1.6	1.2	1.0	1.0
1.9	3.4	1.9	2.4	1.8	1.3	1.3	1.0
2.1	4.5	2.2	2.5	1.9	1.6	1.2	1.3
1.7	3.4	1.7	2.3	1.8	1.2	1.2	1.0
2.6	4.2	2.3	2.8	1.7	1.4	1.2	1.0
1.9	4.1	2.1	1.7	1.5	1.3	1.2	1.3
1.2	1.5	1.9	1.3	1.1	1.1	1.2	1.0
1.4	2.3	2.2	1.3	1.1	1.1	1.5	1.0
1.1	1.4	1.4	1.2	1.0	1.0	1.2	1.0
1.1	1.5	1.4	1.2	1.1	1.0	1.2	1.0
1.3	1.6	1.7	1.4	1.1	1.1	1.5	1.0
1.1	1.8	1.4	1.1	1.0	1.0	1.2	1.0
1.5	2.9	1.4	1.7	1.8	1.2	1.0	1.0
1.9	4.5	2.1	3.1	2.1	1.2	1.3	1.0
2.1	4.0	2.0	2.8	2.3	1.7	1.3	2.0
1.7	3.8	1.9	1.4	1.3	1.2	1.2	1.0
1.1	1.5	1.4	1.2	1.0	1.1	1.0	1.0
1.7	4.2	2.6	1.4	1.4	1.2	1.3	1.0
1.7	3.6	1.6	1.6	1.7	1.1	1.0	1.0
1.3	3.1	1.5	1.3	1.4	1.0	1.0	1.0
1.6	2.6	1.5	1.5	1.3	1.0	1.0	1.0
2.0	3.7	1.6	2.8	2.6	1.2	1.0	1.0
2.2	3.8	1.6	3.3	2.3	1.4	1.2	1.3
2.1	3.4	1.5	3.5	2.5	1.4	1.2	1.0
2.6	4.5	2.0	4.0	2.5	1.9	1.3	2.0

UNIFORM TEST III, 1984

LODGING (score)

Strain	Green-field, IN	Lafay-ette, IN	Sullivan, IN	Manhattan, KS	Topeka, KS	Lexing-ton, KY	Queens-town, MD	Columbia, MO
A8	1.0	1.2	1.0	1.3	2.0	2.0	2.5	1.6
Century (II)	1.5	1.0	1.2	1.3	1.0	1.0	2.0	1.3
Fayette	1.5	1.7	1.8	2.0	2.7	2.0	3.8	2.6
Harper (III)	1.0	1.2	1.0	1.0	1.3	1.0	2.3	1.5
Hobbit	1.0	1.0	1.0	1.0	1.0	1.0	2.3	1.0
Pella	1.0	1.5	1.2	1.3	2.0	2.0	3.2	2.3
Sparks (IV)	2.8	2.3	1.7	2.0	2.3	2.0	3.7	2.4
Williams 82	1.3	1.7	1.7	2.0	2.0	2.0	2.7	2.0
A82-361011	1.5	1.7	1.0	2.0	2.7	2.0	3.5	2.4
A82-363032	2.5	2.3	1.2	1.7	3.3	2.0	3.2	2.8
A82-365028	1.5	1.8	1.2	1.3	2.0	2.0	2.8	2.5
C1623	1.3	2.0	1.0	1.3	2.0	1.0	4.0	2.4
C1631	1.5	1.8	1.2	2.0	2.3	2.0	3.5	2.0
HC74-634 RE	1.0	1.0	1.0	1.0	1.0	1.0	1.8	1.0
HC78-676	1.0	1.0	1.0	1.0	1.0	3.0	3.2	1.0
HC79-2562	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0
HC80-969	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.0
HC80-976	1.0	1.0	1.0	1.0	1.0	1.0	2.7	1.0
HC80-1054	1.0	1.0	1.0	1.0	1.0	1.0	1.7	1.0
HW8033 Zane	1.3	1.0	1.0	1.3	1.3	1.0	2.5	1.5
HW8067	1.3	2.2	1.0	2.0	2.7	2.0	2.2	1.5
HW8233	1.8	2.0	1.8	2.0	2.0	2.0	3.3	2.1
HW8235	1.3	1.3	1.7	1.7	2.0	1.0	2.7	1.5
HW8236	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.0
HW8241	1.3	1.3	1.2	1.7	2.0	2.0	2.8	1.6
L80-3049	1.3	1.3	1.5	1.7	2.0	1.0	3.2	1.8
L80-3778	1.0	1.0	1.0	1.0	1.3	1.0	2.2	1.3
L80-4323	1.0	1.5	1.2	2.0	1.7	2.0	3.2	2.3
LN80-8259	1.8	2.0	1.5	1.7	2.7	2.0	3.8	2.3
LN80-8478	3.0	2.5	1.7	2.0	1.7	2.0	4.0	2.8
LN80-8653	2.0	2.0	1.2	2.3	2.0	2.0	3.8	2.4
LN80-8659	2.2	3.0	2.7	2.0	2.3	3.0	3.9	3.9

UNIFORM TEST III, 1984

LODGING (score)

Mead, NE	Adelphia, NJ	Hoytville, OH	Ripley, OH	S. Charleston, OH	Wooster, OH	Landisville, PA
1.0	1.0	1.1	1.0	1.7	1.5	2.7
1.0	1.0	1.2	1.0	1.3	1.3	2.8
1.0	1.0	2.3	1.2	3.0	2.5	2.5
1.0	1.0	1.1	1.0	1.7	1.6	2.3
1.0	1.0	1.0	1.0	1.0	1.2	1.8
1.0	1.0	1.2	1.0	1.8	1.3	2.3
1.0	1.7	2.7	1.3	3.2	2.0	2.8
1.0	1.0	2.3	1.0	2.5	1.9	2.0
1.0	1.3	1.4	1.0	2.7	1.8	2.5
1.0	2.0	1.3	1.2	2.5	1.8	3.0
1.0	1.0	1.4	1.0	2.2	1.5	2.3
1.0	2.3	1.3	1.3	3.2	2.4	3.0
1.0	1.3	1.5	1.2	2.5	2.5	2.3
1.0	1.0	1.0	1.0	1.2	1.4	1.8
1.0	1.3	1.0	1.0	1.3	1.3	2.2
1.0	1.0	1.0	1.0	1.2	1.3	1.5
1.0	1.0	1.0	1.0	1.0	1.2	1.5
1.0	1.0	1.0	1.0	1.3	1.3	2.0
1.0	1.0	1.0	1.0	1.0	1.2	1.7
1.0	1.3	1.3	1.0	1.2	1.2	3.2
1.0	2.0	1.2	1.0	2.8	1.4	2.5
1.0	1.3	2.3	1.2	3.2	1.8	2.8
1.0	1.7	1.5	1.0	2.0	1.5	2.7
1.0	1.0	1.0	1.0	1.0	1.2	1.3
1.0	1.3	1.4	1.0	2.0	1.5	2.3
1.0	1.0	1.2	1.2	3.0	1.5	3.3
1.0	1.0	1.2	1.0	1.3	1.2	2.2
1.0	1.0	1.3	1.0	2.2	1.3	2.8
1.0	1.3	1.5	1.5	2.5	1.6	3.3
1.0	1.0	1.4	1.3	3.2	2.1	3.3
1.0	1.7	1.4	1.0	3.7	1.5	3.7
1.0	2.0	1.4	1.3	4.2	2.9	3.7

UNIFORM TEST III, 1984

PLANT HEIGHT (inches)

Strain	Mean 22 Tests	Ottumwa, IA	Stuart, IA	Belleville, IL	Eldorado, IL	Girard, IL	Pontiac, IL	Urbana, IL
A8	33	42	35	29	41	31	28	36
Century	33	42	37	27	40	33	31	32
Fayette	41	47	40	42	48	43	35	42
Harper (III)	34	40	34	33	41	37	30	38
Hobbit	21	26	28	18	19	20	26	23
Pella	36	43	38	33	44	36	34	35
Sparks (IV)	41	46	44	42	51	43	37	47
Williams 82	40	45	40	41	48	39	33	41
A82-361011	38	46	40	39	45	39	38	36
A82-363032	36	42	38	33	43	38	32	37
A82-365028	39	46	42	39	49	39	37	38
C1623	38	44	39	39	49	39	36	39
C1631	38	41	40	37	45	39	38	38
HC74-634 RE	22	24	28	19	18	20	26	24
HC78-676	23	26	29	22	19	23	31	24
HC79-2562	20	22	24	19	17	20	26	21
HC80-969	19	20	25	19	16	17	26	20
HC80-976	21	25	27	20	18	20	28	24
HC80-1054	19	26	22	16	16	17	27	20
HW 8033 Zane	34	40	36	34	41	36	32	35
HW8067	32	39	34	33	39	34	31	33
HW8233	36	40	36	37	45	38	35	34
HW8235	37	44	39	36	44	39	32	36
HW8236	19	20	24	17	17	19	24	20
HW8241	34	42	36	31	40	34	30	34
L80-3049	34	43	35	32	41	35	32	29
L80-3778	31	38	34	31	38	31	31	28
L80-4323	36	38	36	37	45	37	32	32
LN80-8259	36	44	39	36	45	36	33	37
LN80-8478	38	44	40	38	46	40	34	37
LN80-8653	39	48	42	41	47	42	36	36
LN80-8659	38	47	40	36	45	40	35	38

UNIFORM TEST III, 1984

PLANT HEIGHT (inches)

Greenfield, IN	Lafayette, IN	Sullivan, IN	Manhattan, KS	Topeka, KS	Lexington, KY	Queenstown, MD	Columbia, MO
30	37	32	34	36	30	35	39
32	34	34	31	30	33	35	31
39	43	45	43	40	38	39	44
31	38	36	36	36	30	33	38
19	22	17	19	17	25	25	22
36	37	37	38	38	32	36	42
40	45	42	43	39	37	47	38
36	44	46	43	43	36	40	43
36	39	40	38	38	37	40	41
34	41	40	36	36	31	39	38
42	41	40	42	40	37	41	40
38	41	37	34	39	36	43	40
33	41	41	38	38	37	39	37
15	24	16	20	18	24	23	27
18	26	16	20	18	25	27	27
17	22	14	19	13	23	22	22
15	23	15	20	17	23	21	22
18	26	18	19	16	25	23	21
15	23	14	20	14	22	23	17
34	38	37	34	33	31	35	36
26	36	37	34	34	28	31	33
37	40	41	35	31	32	39	39
31	40	44	39	36	35	40	40
15	20	15	18	17	21	21	22
35	37	40	35	35	30	34	34
33	36	37	32	35	28	36	35
28	34	33	31	27	29	35	33
33	39	41	36	37	34	37	40
33	40	43	39	39	27	39	39
39	41	44	27	40	35	44	43
39	42	40	39	37	38	43	39
36	40	42	37	37	37	41	44

UNIFORM TEST III, 1984

PLANT HEIGHT (inches)

Strain	Mead, NE	Adelphia, OH	Hoytville, OH	Ripley, OH	S. Charleston, OH	Wooster, OH	Landisville, PA
A8	23	36	22	26	36	29	38
Century (II)	25	33	24	25	35	31	42
Fayette	33	43	36	36	42	37	44
Harper (III)	25	35	23	29	34	27	38
Hobbit	20	22	12	16	23	19	26
Pella	27	36	24	30	39	29	43
Sparks (IV)	30	42	32	39	40	38	50
Williams 82	31	42	36	36	39	34	41
A82-361011	29	40	28	33	41	32	42
A82-363032	25	36	26	32	35	30	40
A82-365028	31	41	26	32	40	34	43
C1623	32	40	21	35	40	33	45
C1631	30	39	28	35	38	34	45
HC74-634 RE	23	23	13	22	23	22	25
HC78-676	21	27	8	23	21	20	29
HC79-2562	17	21	9	19	19	21	25
HC80-969	19	21	11	17	19	17	22
HC80-976	19	23	11	21	21	18	23
HC80-1054	15	23	9	18	20	17	23
HW8033 Zane	27	35	25	30	32	30	37
HW8067	27	32	27	28	34	27	33
HW8233	26	36	34	28	37	31	39
HW8235	28	31	34	32	38	29	39
HW8236	16	19	10	17	21	18	22
HW8241	27	35	30	29	38	28	40
L80-3049	28	35	26	26	34	29	41
L80-3778	26	32	22	23	32	27	37
L80-4323	29	40	30	30	36	26	43
LN80-8259	27	38	28	31	38	29	41
LN80-8478	27	42	27	35	37	35	51
LN80-8653	29	41	30	33	41	34	45
LN80-8659	27	38	24	28	38	34	46

UNIFORM TEST III, 1984

SEED QUALITY (score)

Mean 19 Tests	Ottumwa, IA	Stuart, IA	Belleville, IL	Eldorado, IL	Girard, IL	Pontiac, IL	Urbana, IL
2.0	1.9		4.2	2.5	2.5	1.4	1.7
2.0	1.7		4.3	3.3	3.2	1.2	1.7
1.8	1.6		4.0	3.0	2.5	1.7	1.5
1.9	1.9		3.8	3.0	2.7	1.4	1.6
1.6	1.4		4.3	2.2	2.5	1.2	1.2
2.1	1.6		3.8	3.0	3.0	1.1	1.6
2.0	2.5		3.8	3.0	3.2	1.7	1.9
1.7	1.8		3.2	2.2	2.3	1.2	1.4
2.1	1.6		4.3	3.2	3.0	1.1	1.9
1.7	1.9		3.2	3.0	2.3	1.2	1.3
1.9	1.6		3.8	3.0	2.7	1.1	1.7
2.2	1.9		4.3	2.7	2.5	1.5	1.9
1.8	1.4		4.0	2.2	2.2	1.2	1.6
1.5	1.4		3.5	2.2	2.8	1.1	1.2
1.9	1.6		4.8	2.5	2.7	1.1	1.8
1.9	1.7		4.8	2.2	2.5	1.4	1.4
1.9	1.5		5.0	3.2	3.3	1.1	1.6
1.6	1.4		4.0	2.2	2.2	1.1	1.2
1.9	1.6		4.7	2.8	2.7	1.1	1.5
2.2	1.7		3.5	3.7	3.2	1.1	1.6
1.6	1.5		3.5	2.7	1.8	1.1	1.5
2.1	2.3		3.7	3.3	2.3	1.4	1.6
1.6	1.8		3.0	3.0	2.0	1.4	1.5
1.8	1.4		3.8	2.7	2.7	1.1	1.4
1.9	1.6		3.3	2.5	2.2	1.2	1.6
2.0	1.7		4.7	2.7	2.5	1.2	1.7
2.1	1.4		4.3	2.8	2.5	1.1	1.7
1.8	1.6		4.0	2.5	2.2	1.4	1.5
2.1	2.0		4.7	3.2	3.3	1.2	1.5
1.9	1.7		4.3	3.0	3.2	1.1	1.5
2.0	1.5		3.8	3.0	2.7	1.1	1.8
2.2	1.9		4.2	3.0	3.2	1.2	1.8

UNIFORM TEST III, 1984

SEED QUALITY (score)

Strain	Green-field, IN	Lafay-ette, IN	Sullivan, IN	Manhattan, KS	Topeka, KS	Lexing-ton, KY	Queens-town, MD	Columbia, MO
A8	1.5	1.5	1.5	3.0	2.0	2.0	1.8	1.0
Century (II)	1.0	1.5	1.5	2.5	2.0	1.0	2.2	3.0
Fayette	1.0	1.0	1.0	3.5	2.0	1.0	1.8	1.0
Harper	1.0	1.0	1.5	3.5	2.0	1.0	1.8	1.0
Hobbit	1.0	1.0	1.5	1.5	2.0	1.0	1.7	1.0
Pella	1.5	1.5	2.0	3.5	2.0	1.0	2.0	3.0
Sparks (IV)	1.0	1.0	1.5	3.0	1.0	1.0	1.8	3.0
Williams 82	1.5	1.0	1.0	4.0	2.0	1.0	1.2	1.0
A82-361011	1.5	1.0	1.0	3.5	2.0	2.0	2.3	3.0
A82-363032	1.5	1.0	1.0	2.0	1.0	1.0	1.5	2.0
A82-365028	1.5	1.5	1.5	2.0	2.0	1.0	2.2	2.0
C1623	1.5	1.5	2.0	4.0	2.0	1.0	2.0	2.0
C1631	1.5	1.5	1.5	3.0	1.0	1.0	1.8	2.0
HC74-634 RE	1.0	1.0	1.0	1.5	2.0	1.0	1.3	1.0
HC78-676	1.5	1.5	1.0	2.0	3.0	1.0	1.8	2.0
HC79-2562	1.0	1.0	1.5	2.0	3.0	1.0	1.8	3.0
HC80-969	1.0	1.0	1.0	2.0	2.0	1.0	1.3	4.0
HC80-976	1.0	1.0	1.5	1.5	2.0	1.0	1.0	2.0
HC80-1054	2.0	1.5	1.5	2.5	2.0	1.0	1.8	2.0
HW8033 Zane	1.5	1.5	2.0	4.0	2.0	1.0	2.3	3.0
HW8067	1.0	1.0	1.5	1.5	2.0	1.0	1.7	1.0
HW8233	1.0	1.5	1.5	3.5	2.0	2.0	2.2	3.0
HW8235	1.0	1.0	1.0	2.0	2.0	1.0	1.8	1.0
HW8236	1.0	1.0	1.5	2.0	2.0	1.0	1.8	2.0
HW8241	1.0	1.5	1.5	4.0	2.0	1.0	2.0	2.0
L80-3049	1.0	1.0	1.5	3.5	2.0	1.0	1.8	4.0
L80-3778	2.0	1.5	1.5	3.0	3.0	1.0	2.3	2.0
L80-4323	1.0	1.0	1.5	3.0	2.0	1.0	2.0	2.0
LN80-8259	1.0	1.5	1.5	2.5	3.0	1.0	2.2	2.0
LN80-8478	1.0	1.0	1.0	3.0	2.0	1.0	2.2	2.0
LN80-8653	1.5	1.5	1.5	2.0	2.0	1.0	2.5	3.0
LN80-8659	1.5	1.5	1.5	3.0	2.0	1.0	2.5	4.0

UNIFORM TEST III, 1984

SEED QUALITY (score)

Mead, NE	Adelphia, NJ	Hoytville, OH	Ripley, OH	S. Charleston, OH	Wooster, OH	Landisville, PA
1.5	1.3	2.0			1.3	2.5
2.2	1.3	2.0			1.3	2.0
1.8	1.0	1.6			1.2	2.0
2.0	1.6	1.9			1.4	2.0
1.5	1.0	2.4			1.3	1.5
2.0	1.3	2.1			1.6	1.5
2.2	1.0	2.3			1.8	2.0
1.7	1.6	1.8			1.8	1.5
1.8	2.0	1.7			1.6	2.0
1.8	1.3	1.5			1.3	2.0
1.8	1.6	2.4			1.4	2.0
2.0	1.6	3.0			1.2	2.5
1.8	1.0	1.8			1.6	2.0
1.8	1.0	1.5			1.1	2.0
2.0	1.6	1.7			1.4	2.0
2.0	1.0	1.9			1.3	1.5
1.5	1.0	1.8			1.3	1.5
1.5	1.0	1.4			1.2	1.5
1.7	1.0	2.3			1.2	1.5
2.0	1.6	2.5			1.4	2.0
1.7	1.3	1.3			1.2	2.0
1.8	1.3	2.4			1.4	2.0
1.5	1.6	2.0			1.1	1.5
1.8	1.3	2.2			1.1	1.5
1.7	1.3	1.8			1.2	2.5
2.0	1.0	1.5			1.4	2.0
2.0	1.0	2.1			1.4	2.5
2.0	1.0	1.4			1.3	1.5
1.8	1.3	2.3			1.4	2.5
1.5	1.3	2.3			1.3	1.5
2.0	1.3	1.7			1.5	2.0
1.7	1.0	1.8			1.6	2.5

UNIFORM TEST III, 1984

SEED SIZE (g/100)

Strain	Mean 18 Tests	Ottumwa, IA	Stuart, IA	Belleville, IL	Eldorado, IL	Girard, IL	Pontiac, IL	Urbana, IL
A8	16.0	15.0		15.9	15.0	13.3	14.0	17.0
Century (II)	16.8	14.5		16.2	15.8	13.2	14.2	18.5
Fayette	15.2	14.0		16.0	13.5	12.7	14.9	16.5
Harper (III)	18.8	16.3		19.9	18.2	15.5	15.8	20.6
Hobbit	15.3	13.3		16.1	14.5	13.2	11.5	15.7
Pella	18.3	16.2		18.3	15.8	14.4	14.6	19.0
Sparks (IV)	16.2	15.2		16.5	13.4	12.9	14.7	15.9
Williams 82	16.5	16.1		16.5	16.0	13.3	13.7	16.3
A82-361011	17.1	14.6		16.4	17.1	13.6	14.9	19.5
A82-363032	15.6	13.8		16.5	14.1	12.1	12.4	15.7
A82-365028	16.0	14.8		16.1	15.7	12.9	13.7	16.3
C1623	15.9	13.6		17.2	15.0	12.3	13.6	16.3
C1631	18.2	15.6		18.7	17.1	14.4	15.8	19.9
HC740634 RE	18.2	16.2		18.8	19.0	15.2	14.4	18.4
HC78-676	15.3	13.4		16.2	14.8	13.2	12.3	16.4
HC79-2562	15.7	13.9		15.6	16.6	13.3	12.3	15.5
HC80-969	16.6	13.6		16.5	17.8	14.0	12.3	16.7
HC80-976	14.5	13.0		15.2	14.8	12.3	11.8	15.0
HC80-1054	15.2	13.0		16.9	16.6	13.0	11.2	15.9
HW8033 Zane	19.3	16.2		19.4	18.2	15.3	15.6	20.7
HW8067	15.5	15.0		15.6	14.9	13.4	12.9	17.1
HW8233	19.3	18.2		19.5	19.1	16.5	17.9	20.9
HW8235	17.7	15.8		15.3	17.4	16.1	15.8	18.3
HW8236	16.1	13.0		13.9	17.4	14.2	12.1	17.0
HW8241	16.0	14.8		13.5	15.4	15.0	13.7	16.5
L80-3049	16.3	14.6		15.0	16.0	13.6	15.0	17.2
L80-3778	18.7	19.5		16.4	18.0	15.9	14.7	19.6
L80-4323	15.7	14.5		14.4	16.1	12.8	15.1	16.1
LN80-8259	15.5	14.7		12.5	14.6	12.7	12.7	15.8
LN80-8478	17.1	15.9		15.1	16.4	15.0	14.9	18.0
LN80-8653	17.1	15.6		15.5	17.0	13.8	14.7	18.2
LN80-8659	15.1	14.4		12.6	14.4	11.8	13.7	14.2

UNIFORM TEST III, 1984

SEED SIZE (g/100)

Greenfield, IN	Lafayette, IN	Sullivan, IN	Manhattan, KS	Topeka, KS	Lexington, KY	Queenstown, MD	Columbia, MO
18.4	16.9	15.1	14.7	16.9	12.8	16.2	16.1
18.1	18.6	15.6	17.6	16.8	15.5	17.1	17.2
17.1	16.5	15.1	13.3	15.6	12.7	15.5	14.7
20.7	21.1	18.8	16.7	20.8	15.7	18.1	20.5
17.4	16.6	15.3	15.3	16.5	12.9	14.2	17.9
22.0	21.7	16.9	18.8	19.5	14.8	18.3	19.1
18.5	17.7	16.0	14.8	18.1	12.7	17.0	18.2
19.0	18.6	16.0	14.2	17.1	13.8	17.6	16.3
18.5	19.2	16.3	16.1	19.0	14.7	17.5	17.1
17.7	15.6	14.6	15.5	17.3	13.1	15.4	16.7
18.3	16.6	15.4	15.0	17.5	13.0	17.3	16.0
17.9	17.4	16.3	14.6	16.4	13.1	15.6	16.8
20.5	21.0	17.4	16.1	18.7	15.5	18.6	19.8
20.3	19.0	16.9	20.9	20.8	14.3	17.7	19.9
18.4	16.4	14.6	14.5	17.7	12.6	15.2	15.4
17.1	16.8	16.0	15.7	17.4	13.1	16.2	15.0
19.1	16.4	15.9	17.0	18.7	13.4	16.4	17.1
17.4	15.5	14.0	15.2	16.5	11.5	13.2	16.4
16.5	16.8	15.2	15.4	15.6	12.0	14.0	18.6
20.6	22.3	20.0	17.5	20.8	16.4	19.0	21.0
17.1	17.2	14.7	15.1	16.2	13.7	15.9	15.6
22.2	21.2	18.9	18.7	20.4	17.6	17.5	17.0
20.6	19.8	18.6	15.1	18.5	14.2	18.5	16.2
18.0	17.5	15.2	16.4	18.1	12.6	14.5	19.7
17.5	17.2	16.1	13.9	17.1	13.9	16.1	16.6
18.6	18.1	15.4	15.8	17.0	15.6	14.9	16.7
22.4	21.8	17.8	18.3	22.1	17.3	20.1	21.3
18.3	18.3	15.3	13.1	15.6	14.1	15.0	16.5
17.8	16.9	15.5	15.9	17.2	13.6	15.2	16.4
19.1	18.8	17.2	15.7	19.6	13.4	17.2	17.6
19.2	19.7	18.2	17.7	17.6	14.3	16.7	16.1
17.1	16.4	15.4	15.1	17.4	12.1	15.3	16.4

UNIFORM TEST III, 1984

SEED SIZE (g/100)

Strain	Mead, NE	Adelphia, NJ	Hoytville, OH	Ripley, OH	S. Charleston, OH	Wooster, OH	Landisville, PA
A8	17.6		15.9			16.7	20.6
Century (II)	18.3		17.1			17.2	21.7
Fayette	16.9		12.9			16.4	19.6
Harper (III)	21.8		17.9			18.4	22.1
Hobbit	15.8		14.4			16.7	18.7
Pella	19.9		17.0			18.9	23.3
Sparks (IV)	17.4		15.0			17.7	20.4
Williams 82	17.3		16.1			17.6	21.3
A82-361011	17.9		15.8			16.9	22.7
A82-363032	17.8		14.5			17.7	19.9
A82-365028	16.6		15.1			16.7	21.1
C1623	16.8		15.0			16.5	21.8
C1631	19.5		16.7			18.6	22.8
HC74-634 RE	19.0		17.5			17.7	21.9
HC78-676	16.0		14.3			14.9	19.2
HC79-2562	15.8		17.4			16.5	18.7
HC80-969	17.1		18.2			16.4	21.6
HC80-976	14.2		13.1			13.6	18.4
HC80-1054	16.0		14.5			14.2	18.1
HW8033 Zane	21.1		19.2			19.3	25.0
HW8067	15.1		13.4			15.1	20.3
HW8233	18.7		19.5			20.1	23.5
HW8235	18.3		17.9			18.7	22.8
HW8236	17.1		16.9			16.0	19.4
HW8241	16.8		15.7			16.8	21.4
L80-3049	17.9		15.7			15.5	20.8
L80-3778	19.5		18.8			18.1	15.7
L80-4323	17.0		14.5			15.4	21.1
LN80-8259	17.1		14.5			15.6	20.4
LN80-8478	18.2		15.7			18.1	22.7
LN80-8653	19.3		16.0			17.0	21.6
LN80-8659	15.3		13.9			16.5	20.3

UNIFORM TEST III, 1984

PROTEIN (%)

Mean 5 Tests	Urbana, IL	Lafayette, IN	Ottumwa, IA	Manhattan, KS	Wooster, OH
40.9	39.8	42.0	41.4	40.4	40.8
41.4	40.0	41.5	43.9	40.4	41.2
41.0	40.5	42.9	41.0	40.3	40.5
39.9	38.0	41.8	40.8	39.3	39.7
38.8	36.8	39.3	41.6	36.1	40.4
39.1	37.6	39.1	40.5	39.0	39.3
38.2	37.4	39.4	38.6	37.3	38.3
40.7	40.9	41.9	41.0	40.0	39.5
38.6	38.4	39.5	39.4	36.2	39.6
39.8	39.1	41.4	39.8	38.6	40.2
38.7	38.0	40.0	39.1	37.9	38.5
38.9	37.7	38.6	41.3	37.8	39.3
40.2	40.2	40.1	40.7	39.1	41.0
41.8	41.0	42.4	44.5	39.9	41.3
40.2	40.2	40.4	42.8	38.7	39.0
42.3	40.2	43.8	45.5	40.2	41.7
39.3	37.4	40.1	42.1	37.5	39.3
40.3	37.8	40.1	44.1	38.5	41.1
39.9	37.5	40.2	42.0	39.6	40.2
39.6	37.5	40.5	42.4	38.1	39.4
39.6	38.5	41.7	41.8	36.7	39.1
42.3	41.9	42.6	43.5	41.8	41.9
41.7	41.0	43.3	42.6	39.7	41.8
37.4	35.7	37.8	40.9	35.5	37.0
40.7	40.2	41.7	40.8	39.9	41.0
41.5	40.8	42.9	42.9	40.0	40.9
38.9	37.2	39.5	41.5	37.5	38.8
41.1	40.0	42.3	41.4	40.1	41.6
39.5	39.2	40.7	39.5	37.6	40.3
40.2	39.6	41.4	40.9	38.1	41.0
40.2	39.3	41.6	41.1	39.8	39.3
41.2	40.3	42.8	41.8	39.8	41.4

UNIFORM TEST III, 1984

OIL (%)

Strain	Mean 5 Tests	Urbana, IL	Lafayette, IN	Ottumwa, IA	Manhattan, KS	Wooster, OH
A8	21.2	21.3	21.8	20.8	21.4	20.6
Century (II)	21.1	21.9	21.5	19.9	21.7	20.6
Fayette	21.3	21.7	20.8	21.2	21.8	21.2
Harper (III)	21.7	22.1	21.6	21.2	22.5	21.0
Hobbit	22.8	24.5	23.3	20.8	23.9	21.5
Pella	22.3	23.2	22.3	21.3	22.6	22.0
Sparks (IV)	21.7	21.5	21.6	21.9	22.4	20.9
Williams 82	21.7	21.7	22.0	21.8	21.7	21.4
A82-361011	22.5	23.5	22.6	21.3	24.1	21.0
A82-363032	22.1	22.2	21.8	22.4	22.6	21.3
A82-365028	22.8	23.3	23.3	22.1	22.9	22.5
C1623	20.9	22.1	21.1	19.6	21.5	20.4
C1631	21.2	20.9	21.4	21.1	22.0	20.4
HC74-634 RE	21.3	22.2	21.7	19.6	22.1	21.1
HC78-676	21.4	22.2	21.5	19.4	22.3	21.5
HC79-2562	21.3	22.4	21.4	19.4	23.2	20.2
HC80-969	22.7	24.3	23.0	21.1	23.5	21.8
HC80-976	22.4	24.4	22.0	20.3	23.5	21.8
HC80-1054	22.4	23.5	22.8	21.3	22.9	21.4
HW8033 Zane	22.8	24.6	23.3	20.8	23.5	22.0
HW8067	22.4	23.4	21.7	21.5	23.5	22.1
HW8233	21.1	21.7	21.2	20.0	22.1	20.7
HW8235	20.7	21.7	20.5	20.2	21.5	19.6
HW8236	23.6	25.1	23.4	21.8	25.1	22.5
HW8241	20.5	20.7	20.5	20.3	21.2	19.7
L80-3049	21.7	23.0	21.6	20.7	22.7	20.7
L80-3778	22.0	23.6	22.0	20.5	22.8	20.9
L80-4323	21.5	22.1	21.7	21.5	22.1	20.1
LN80-8259	21.0	21.5	21.5	19.8	22.0	20.1
LN80-8478	21.0	21.9	20.5	21.0	22.0	19.7
LN80-8653	21.3	21.7	21.4	20.8	21.8	21.0
LN80-8659	20.6	21.4	20.5	20.3	21.1	19.6

PRELIMINARY TEST IIIA, 1984

	Strain	Parentage	Generation Composited
1.	A8	(Beeson x AP68-1016) x (L15 x Calland)	F_4
2.	Century (II)	Calland x Bonus	F_6
3.	Harper (III)	Unknown	F_4
4.	Pella	L66L-137 x Calland	F_4
5.	Sparks (IV)	Williams x Calland	F_6
6.	Williams 82	$Williams^7$ x Kingwa	$4BC_6$ F_3
7.	AHW-Pella BC	$Pella^5$ x Williams 82	BC_4 F_3
8.	A83-371005	Agripro AP200 x NAPB Ex4380	F_4
9.	A83-371011	NK S1492 x Asgrow A3127	F_4
10.	A83-371012	A78-122031 X Agripro AP200	F_4
11.	A83-371017	A77-211021 x Cumberland	F_4
12.	A83-371028	Asgrow A3127 x Agripro AP200	F_4
13.	A83-372027	Merschman Washington V x Asgrow A3127	F_4
14.	A83-373001	A78-122031 x Merschman Washington V	F_4
15.	A83-373003	NAPB Ex 4380 x Merschman Washington V	F_4
16.	A83-373006	A78-122031 x Agripro AP200	F_4
17.	A83-373012	A77-211021 x Merschman Washington V	F_4
18.	A83-373021	Asgrow A3127 x Cumberland	F_4
19.	A83-374002	Agripro AP200 x Cumberland	F_4
20.	A83-374011	NK S1492 x Merschman Washington V	F_4
21.	A83-374012	NK S1492 x Merschman Washington V	F_4
22.	A83-374033	AP6LTW2YT (F4) C2	F_4
23.	HA82-361013	Pella x NK S1492	F_5
24.	K1105	(Tracy x Williams) x Pella	F_5
25.	LN80-6736	A76-202015 x Land O'Lakes Max	F_4
26.	LN80-6797	A76-202015 x Land O'Lakes Max	F_4
27.	LN81-1044	K74-114-75-000 x Pella	F_4
28.	LN81-2369	Will x K1028	F_4
29.	LN81-2386	Will x K1028	F_4
30.	LN81-3027	K1030 x K1028	F_4
31.	U78-83038	(Hark x Wayne) x [(Blackhawk x Harosoy) x Kent]	F_4
32.	U78-83051	(Hark x Wayne) x [(Blackhawk x Harosoy) x Kent]	F_4

PRELIMINARY TEST IIIA, 1984

Descriptive and Other Data

Strain	Descriptive Code		Chlorosis Score	Shattering Score	BSR	
					Ames	
			Ames	Manhattan	Plant N %	Stem N %
A8	WTBrSYBr	I	3.0	4.0	90	22.5
Century (II)	PTBrSYBI	I	3.5	2.0	100	73.4
Harper (III)	PTBrSYBI	I	4.2	1.0	90	50.7
Pella	PTT SYBI	I	3.7	1.0	100	78.9
Sparks (IV)	WTT SYBI	I	3.3	-	90	71.1
Williams 82	WTT SYBI	I	3.3	1.0	-	--
AHW-Pella BC	PTT IYBI	I	3.8	1.0	-	--
A83-371005	P+WGBrSYBf	I	4.2	1.0	-	--
A83-371011	P+WTBrIYBf	I	3.7	3.0	-	--
A83-371012	WGBrSYBf	I	4.3	-	-	--
A83-371017	WGBrSYBf	I	4.7	2.0	-	--
A83-371028	PGT SYIb	I	4.8	1.0	-	--
A83-372027	PTT IYBI	I	4.5	3.0	-	--
A83-373001	WGBrDYBf	I	3.3	3.0	-	--
A83-373003	PTBrDYBr	I	3.5	4.0	-	--
A83-373006	WGBrDYBf	I	3.3	2.0	-	--
A83-373012	PTBrIYBr	I	3.7	5.0	-	--
A83-373021	PGT IYIb	I	4.0	-	-	--
A83-374002	WGBrSYBf	I	4.0	1.0	-	--
A83-374011	PGBrDYBf	I	4.5	2.0	-	--
A83-374012	PGBrIYBf	I	4.8	1.0	-	--
A83-374033	WGBrDYBf	I	3.7	2.0	-	--
HA82-361013	WG+TBrIYBr+Bf	I	5.0	1.0	100	51.8
K1105	WTT IYBI	I	4.2	1.0	100	64.2
LN80-6736	WTB SYBI	I	3.8	1.0	100	55.0
LN80-6797	PTBrDYBI	I	3.7	-	100	66.8
LN81-1044	WGT IYBf	I	3.5	2.0	100	67.5
LN81-2369	WTT SYBI	SD	4.2	1.0	100	76.4
LN81-2386	WTT SYBI	SD	4.2	1.0	100	78.8
LN81-3027	PTT IYBI	I	3.5	1.0	100	64.9
U78-83038	PTBrDYBr	I	5.0	2.0	100	57.2
U78-83051	PTBrSYBI	I	5.0	2.0	100	49.6

PRELIMINARY TEST IIIA, 1984

Disease Data

FE	PR				PS	PSB	SMV	GERM
Lafayette	Ames	Lafayette	Hoytville	Vickery	Lafayette			
Race 2 Score	Race 4 Reaction	Race 1 Reaction	Stand Score	Tolerance Score	a %	n %	a Score	%
1	S	R	4.6	3.0	56	32	4E	58
4	S	R	4.8	2.9	34	1	3E	95
3	S	S	4.8	3.4	27	18	5E	67
1	S	R	4.7	3.0	48	43	5E	45
5	S	R	3.3	2.8	43	13	5E	77
2	R	R	1.4	2.3	35	20	4E	72
1	R	R	1.7	2.3	58	30	5E	46
5	S	R	4.9	4.8	72	46	1E	83
4	S	S	4.8	3.0	21	25	4E	64
4	S	R	4.8	3.5	34	21	4E	56
3	S	H	4.6	4.0	75	25	3E	57
5	S	R	3.4	3.5	39	39	3E	44
5	S	H	4.5	3.8	28	26	4E	71
2	S	R	4.8	3.3	31	22	3M	72
1	S	H	3.5	2.9	28	23	2M	70
1	S	R	4.8	3.1	22	50	3E	32
5	R	R	4.4	3.6	12	33	5E	58
2	S	S	3.5	2.8	36	27	5E	64
4	S	R	4.9	4.0	49	30	4M	65
3	S	H	4.0	3.1	15	15	5E	72
4	S	R	4.7	3.5	18	26	4E	62
5	S	S	4.0	2.8	35	35	4E	57
1	S	S	3.9	3.3	39	38	5E	47
5	R	R	1.3	2.6	34	33	3E	64
1	S	S	4.9	3.0	39	19	5E	40
1	S	S	4.4	2.8	11	6	5E	50
5	R	R	1.7	2.4	48	15	1	70
5	S	R	4.9	4.0	17	32	4E	50
5	S	R	4.6	4.1	39	30	3E	58
5	S	H	4.7	3.5	36	51	3E	37
1	S	S	4.6	4.3	76	36	3E	52
1	S	S	4.2	4.3	48	14	5E	56

PRELIMINARY TEST IIIA, 1984

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	7	8	7	8	8	6	6	5	5
	bu/a	No.	Date	Score	Inches	Score	g/100	%	%
A8	48.7	2	-0.7	1.4	33	1.8	15.6	40.8	20.8
Century (II)	44.7	22	-8.9	1.6	33	2.1	17.1	41.0	21.4
Harper (III)	47.3	6	9-22*	1.4	33	1.8	18.6	39.9	21.0
Pella	45.9	19	-3.9	1.6	36	1.9	18.0	38.9	21.9
Sparks (IV)	39.9	32	+5.3	2.5	39	1.9	15.3	38.4	21.2
Williams 82	43.3	27	+2.1	1.9	40	1.5	16.1	40.4	21.6
AHW-Pella BC	46.3	14	-5.6	1.5	34	1.9	18.1	39.4	22.2
A83-371005	46.0	17	-4.4	1.7	35	2.1	17.3	37.3	22.5
A83-371011	47.2	8	-1.7	1.9	36	1.6	13.6	39.9	20.4
A83-371012	48.8	1	+3.1	2.6	39	2.0	14.8	38.6	21.6
A83-371017	47.3	6	-1.4	2.3	39	2.0	17.7	39.7	21.5
A83-371028	46.8	9	-3.6	1.5	32	2.1	15.9	40.2	21.6
A83-372027	48.5	4	+0.9	1.9	40	1.6	14.2	39.3	21.9
A83-373001	45.2	21	-1.9	2.7	36	1.7	14.0	39.5	21.9
A83-373003	41.9	29	+1.9	2.8	44	2.0	15.1	40.4	20.2
A83-373006	46.8	9	-0.6	2.4	39	1.9	15.4	38.5	21.9
A83-373012	43.2	28	-1.7	2.4	39	1.9	14.0	39.2	21.1
A83-373021	46.6	13	+1.0	1.9	37	1.3	13.6	39.3	21.5
A83-374002	44.7	22	+2.9	2.5	43	1.6	15.7	39.1	22.3
A83-374011	43.6	25	+1.3	2.5	41	1.9	14.1	38.1	21.6
A83-374012	46.2	15	+2.1	2.7	39	1.6	14.6	38.2	21.7
A83-374033	46.7	11	+1.4	1.8	34	1.8	15.0	38.5	21.3
HA82-361013	46.2	15	-2.1	2.0	37	1.9	17.0	38.8	21.9
K1105	43.5	26	-0.4	2.4	37	1.7	18.1	41.4	21.5
LN80-6736	48.0	5	-0.3	2.2	35	1.7	14.9	40.6	21.2
LN80-6797	48.6	3	-3.4	2.2	35	1.8	14.7	40.2	20.9
LN81-1044	46.7	11	-6.9	1.6	33	1.6	16.6	40.6	21.0
LN81-2369	40.5	31	-4.0	1.6	29	1.6	15.1	40.3	21.5
LN81-2386	46.0	17	-3.7	1.5	29	1.6	16.5	40.4	21.7
LN81-3027	45.4	20	-1.7	1.6	35	1.8	18.2	40.2	21.8
U78-83038	43.9	24	-0.7	2.1	35	1.8	14.2	42.3	20.4
U78-83051	41.2	30	+1.7	1.9	39	1.8	15.3	39.8	20.8

*130 days after planting

Several strains in this test yielded up to one bushel per acre more than Harper. The strains A8, A83-373003, and A83-373012 were susceptible to shattering. The strain LN81-1044 matured early for this test and any additional testing should be done in the Group II tests.

PRELIMINARY TEST IIIA, 1984

YIELD (bu/a)

Strain	Mean 7 Tests	Ottumwa, IA	Stuart, IA	Urbana, IL	Lafayette, IN	Manhattan, KS	Mead, NE	Hoytville, OH*	S. Charleston, OH
A8	48.7	45.1	34.9	63.6	57.6	35.8	45.7	13.0	58.5
Century	44.7	36.9	31.8	54.5	51.7	37.4	41.8	10.3	59.0
Harper (III)	47.3	42.5	37.4	59.7	53.4	35.9	42.9	4.1	59.4
Pella	45.9	41.9	34.8	53.7	49.9	33.7	45.8	12.6	61.3
Sparks (IV)	39.9	37.7	34.3	50.8	52.1	30.1	18.4	29.2	55.7
Williams 82	43.3	33.4	30.5	53.6	52.1	33.5	40.4	54.3	59.8
AHW-Pella BC	46.3	40.2	36.0	57.9	50.0	34.4	46.2	46.6	59.4
A83-371005	46.0	39.1	34.9	62.7	45.0	34.8	47.4	0.9	57.8
A83-371011	47.2	43.6	36.1	56.9	53.1	39.2	46.4	9.4	55.1
A83-371012	48.8	42.7	33.6	62.5	58.8	40.4	41.9	9.0	61.5
A83-371017	47.3	40.5	35.9	62.6	53.2	32.2	45.3	8.5	61.5
A83-371028	46.8	43.2	29.8	57.4	54.1	41.2	42.5	23.2	59.6
A83-372027	48.5	42.2	36.1	59.0	58.1	36.8	47.6	15.3	60.0
A83-373001	45.2	44.0	30.8	62.7	45.6	32.3	45.6	7.8	55.6
A83-373003	41.9	38.1	29.1	58.2	44.4	35.4	32.2	20.7	55.8
A83-373006	46.8	37.9	35.1	58.8	56.3	36.1	43.9	11.6	59.4
A83-373012	43.2	36.8	32.9	54.1	45.1	32.6	46.1	10.5	55.1
A83-373021	46.6	41.2	33.9	60.4	49.4	36.2	44.6	24.9	60.5
A83-374002	44.7	41.0	32.4	56.1	54.5	38.3	39.3	2.1	51.4
A83-374011	43.6	39.0	33.8	50.3	53.3	35.7	36.0	25.6	56.9
A83-374012	46.2	41.6	35.2	65.6	49.0	34.3	41.7	6.3	56.1
A83-374033	46.7	37.9	34.0	59.8	50.3	37.5	44.4	23.3	62.8
HA82-361013	46.2	42.1	34.2	58.5	47.7	34.0	45.1	28.3	61.6
K1105	43.5	42.0	36.4	55.9	34.7	32.9	42.3	55.4	60.5
LN80-6736	48.0	42.7	36.1	60.9	54.9	35.7	44.1	6.0	61.5
LN80-6797	48.6	47.1	36.6	60.9	56.5	39.3	41.3	15.0	58.8
LN81-1044	46.7	44.6	36.3	53.7	50.3	40.3	45.5	49.1	56.1
LN81-2369	40.5	36.8	31.3	47.4	43.3	28.0	39.7	3.0	56.9
LN81-2386	46.0	40.4	30.8	54.8	53.2	37.1	46.8	7.5	59.2
LN81-3027	45.4	42.9	33.6	55.1	53.2	36.5	43.0	12.6	53.7
U78-83038	43.9	36.3	34.2	58.9	43.2	34.4	42.4	6.9	58.0
U78-83051	41.2	34.3	30.8	46.2	49.7	33.9	34.9	16.9	58.7
C.V. (%)		9.2	6.8	12.1	9.0	14.0	8.0	10.9	9.0
L.S.D. (5%)		7.2	4.5	17.5	8.9	10.1	6.9	29.9	10.5
Row sp. (in.)		27	27	30	24	30	30	30	30
Rows/plot		4	4	4	4	4	4	4	4
Reps		2	2	2	2	2	3	2	2

*Not included in mean.

PRELIMINARY TEST IIIA, 1984

YIELD RANK

Strain		Ottumwa, IA	Stuart, IA	Urbana, IL	Lafayette, IN	Manhattan, KS	Mead, NE	Hoytville, OH	S. Charleston, OH
A8	2	2	12	2	3	15	8	15	19
Century (II)	22	27	25	24	17	8	23	20	16
Harper (III)	6	10	1	11	9	14	18	29	12
Pella	19	14	14	26	21	25	7	16	6
Sparks (IV)	32	26	15	29	15	31	32	5	27
Williams 82	27	32	30	28	15	26	26	2	10
AHW-Pella BC	14	20	8	17	20	20	5	4	12
A83-371005	17	21	12	3	28	19	2	32	21
A83-371011	8	5	5	19	14	5	4	21	29
A83-371012	1	8	21	6	1	2	22	22	3
A83-371017	6	18	9	5	11	30	11	23	3
A83-371028	9	6	31	18	8	1	19	10	11
A83-372027	4	11	5	12	2	10	1	13	9
A83-373001	21	4	27	3	26	29	9	24	28
A83-373003	29	23	32	16	29	18	31	11	26
A83-373006	9	24	11	14	5	13	16	18	12
A83-373012	28	28	23	25	27	28	6	19	29
A83-373021	13	16	19	9	23	12	13	8	7
A83-374002	22	17	24	20	7	6	28	31	32
A83-374011	25	22	20	30	10	16	29	7	22
A83-374012	15	15	10	1	24	22	24	27	24
A83-374033	11	24	18	10	18	7	14	9	1
HA82-361013	15	12	16	15	25	23	12	6	2
K1105	26	13	3	21	32	27	21	1	7
LN80-6736	5	8	5	7	6	16	15	28	3
LN80-6797	3	1	2	7	4	4	25	14	17
LN81-1044	11	3	4	26	18	3	10	3	24
LN81-2369	31	28	26	31	30	32	27	30	22
LN81-2386	17	19	27	23	11	9	3	25	15
LN81-3027	20	7	21	22	11	11	17	16	31
U78-83038	24	30	16	13	31	20	20	26	20
U78-83051	30	31	27	32	22	24	30	12	18

PRELIMINARY TEST IIIA, 1984

MATURITY (date)

Strain	Mean 7 Tests	Ottumwa, IA	Stuart, IA	Urbana, IL	Lafayette, IN	Manhattan, KS	Mead, NE	Hoytville, OH	S. Charleston, OH
A8	-0.7		+2	-3	+4	-2	-2	-4	0
Century (II)	-8.9		-8	-7	-7	-14	-10	-13	-3
Harper (III)	9-22.4		9-16	9-17	9-13	9-23	10-3	10-6	9-19
Pella	-3.9		-2	-6	-2	-9	-4	-3	-1
Sparks (IV)	+5.3		+10	+6	+6	+4	+2	+3	+6
Williams 82	+2.1		+4	+2	+2	0	-1	+1	+7
AHW-Pella BC	-5.6		-4	-2	-6	-10	-5	-10	-2
A83-371005	-4.4		-8	-3	-5	-6	-6	-2	-1
A83-371011	-1.7		0	-3	-2	-4	-2	-2	+1
A83-371012	+3.1		+4	+10	+3	+1	0	-1	+5
A83-371017	-1.4		0	+2	+2	-5	-6	-4	+1
A83-371028	-3.6		-3	-2	-3	-7	-5	-5	0
A83-372027	+0.9		+4	+1	+1	-3	-2	0	+5
A83-373001	-1.9		+1	+1	-1	-10	-5	-2	+3
A83-373003	+1.9		+4	+6	+2	+1	0	-2	+2
A83-373006	-0.6		0	+3	0	-4	-1	-4	+2
A83-373012	-1.7		0	-1	-2	-7	-4	-1	+3
A83-373021	+1.0		+4	+5	+1	-7	0	+1	+3
A83-373021	+2.9		+6	+2	+5	0	-1	+2	+6
A83-374011	+1.3		+4	+2	+2	-1	0	-1	+3
A83-374012	+2.1		+6	+5	0	-1	-1	+3	+3
A83-374033	+1.4		+4	+2	+1	-1	0	-1	+5
HA82-361013	-2.1		+1	-2	-2	-6	-4	-5	+3
K1105	-0.4		0	+1	0	-4	-1	-3	+4
LN80-6736	-0.3		0	0	0	-3	-2	+1	+2
LN80-6797	-3.4		-2	-5	-2	-6	-4	-4	-1
LN81-1044	-6.9		-4	-5	-7	-10	-5	-12	-5
LN81-2369	-4.0		-1	-4	-7	-11	-2	-2	-1
LN81-2386	-3.7		-2	-2	-5	-10	-4	-3	0
LN81-3027	-1.7		-2	-4	-2	-6	-1	0	+3
U78-83038	-0.7		0	-1	-1	-3	-2	0	+2
U78-83051	+1.7		+4	-2	+2	+1	0	+1	+6
Date planted	5-16	5-18	5-15	5-7	5-10	5-31	6-1	5-15	5-2
Days to mature	130	--	124	133	126	115	127	144	140

PRELIMINARY TEST IIIA, 1984

LODGING (score)

Strain	Mean 8 Tests	Ottumwa, IA	Stuart, IA	Urbana, IL	Lafayette, IN	Manhattan, KS	Mead, NE	Hoytville, OH	S. Charleston, OH
A8	1.4	2.6	1.6	1.0	1.5	1.0	1.0	1.2	1.0
Century (II)	1.6	4.4	1.8	1.0	1.0	1.0	1.0	1.2	1.0
Harper (III)	1.4	3.0	1.8	1.0	1.0	1.5	1.0	1.2	1.0
Pella	1.6	3.5	1.8	1.0	1.5	1.5	1.0	1.2	1.3
Sparks (IV)	2.5	4.5	2.2	2.0	2.0	2.0	2.0	2.4	2.5
Williams 82	1.9	4.0	2.0	1.0	1.8	1.0	1.3	2.4	1.8
AHW-Pella BC	1.5	3.3	1.8	1.0	1.0	1.5	1.0	1.3	1.0
A83-371005	1.7	4.0	1.9	1.0	1.0	2.0	1.0	1.5	1.5
A83-371011	1.9	3.5	2.2	1.0	1.8	2.5	1.3	1.5	1.3
A83-371012	2.6	4.7	2.8	1.5	2.3	3.5	2.0	1.2	2.5
A83-371017	2.3	4.5	2.7	2.0	2.3	2.5	1.0	1.2	1.8
A83-371028	1.5	3.9	1.6	1.0	1.0	1.5	1.0	1.1	1.0
A83-372027	1.9	3.6	1.8	1.5	1.5	2.0	1.3	1.5	2.3
A83-373001	2.7	4.8	2.7	2.5	3.3	3.0	1.5	1.2	2.5
A83-373003	2.8	4.7	2.8	2.5	2.8	3.0	2.0	1.8	2.8
A83-373006	2.4	4.8	2.8	1.5	2.0	2.5	1.5	1.2	2.5
A83-373012	2.4	4.6	1.9	2.0	2.0	2.5	1.3	1.3	3.5
A83-373021	1.9	4.4	2.0	1.0	1.5	2.0	1.0	1.2	2.0
A83-374002	2.5	4.6	2.3	1.5	2.8	3.0	1.5	1.1	2.8
A83-374011	2.5	4.7	2.6	2.0	2.3	2.5	1.8	1.8	2.3
A83-374012	2.7	4.7	2.5	2.5	3.0	3.0	1.5	1.1	3.0
A83-374033	1.8	4.3	1.8	1.0	1.3	2.0	1.3	1.3	1.0
HA82-361013	2.0	4.2	2.3	1.0	2.0	2.0	1.0	1.5	1.8
K1105	2.4	4.4	2.2	2.0	2.3	1.5	1.3	3.3	2.5
LN80-6736	2.2	4.3	2.1	1.5	2.5	2.5	1.3	1.2	2.0
LN80-6797	2.2	4.6	1.9	1.0	2.8	2.5	1.0	1.4	2.3
LN81-1044	1.6	3.8	2.0	1.0	1.0	1.5	1.0	1.7	1.0
LN81-2369	1.6	3.6	1.8	1.0	1.0	1.5	1.0	1.2	1.5
LN81-2386	1.5	3.0	1.8	1.0	1.0	1.0	1.0	1.3	1.8
LN81-3027	1.6	3.0	1.4	1.0	1.5	1.5	1.0	2.0	1.0
U78-83038	2.1	4.1	2.3	1.5	1.8	2.0	1.3	1.2	2.3
U78-83051	1.9	3.5	1.8	1.0	2.3	2.0	1.8	1.3	1.8

PRELIMINARY TEST IIIA, 1984

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Ottumwa, IA	Stuart, IA	Urbana, IL	Lafayette, IN	Manhattan, KS	Mead, NE	Hoytville, OH	S. Charleston, OH
A8	33	42	36	34	36	33	29	21	32
Century (II)	33	43	34	32	33	35	29	21	33
Harper (III)	33	40	36	35	36	35	28	18	32
Pella	36	42	38	38	38	37	33	25	35
Sparks (IV)	39	48	44	44	43	36	33	29	37
Williams 82	40	45	42	42	43	39	33	37	38
AHW-Pella BC	34	40	37	35	34	36	28	28	32
A83-371005	35	45	40	35	38	35	35	18	37
A83-371011	36	44	41	37	40	40	34	21	34
A83-371012	39	48	42	40	44	42	37	26	36
A83-371017	39	46	41	41	44	39	36	25	36
A83-37128	32	38	32	33	36	32	27	24	31
A83-372027	40	44	46	44	44	44	36	26	38
A83-372027	36	46	38	36	40	39	32	22	33
A83-373003	44	50	44	49	47	43	41	31	43
A83-373006	39	46	42	42	42	43	36	22	38
A83-373012	39	48	42	38	40	41	37	26	40
A83-373021	37	41	40	39	43	40	32	29	35
A83-374002	43	52	40	48	47	45	41	24	43
A83-374011	41	48	42	43	44	45	38	28	36
A83-374012	39	44	41	39	46	41	34	23	40
A83-374033	34	40	34	35	40	35	27	23	35
HA82-361013	37	42	38	38	43	37	32	29	38
K1105	37	39	38	38	42	36	32	32	37
LN80-6736	35	43	37	36	42	34	29	24	34
LN80-6797	35	42	36	37	42	35	31	22	38
LN81-1044	33	39	38	32	34	36	30	27	31
LN81-2369	29	32	30	34	31	28	30	14	30
LN81-2386	29	32	34	32	32	28	31	15	30
LN81-3027	35	42	38	38	38	38	30	23	30
U78-83038	35	42	38	37	40	38	31	23	33
U78-83051	39	44	40	40	46	41	34	26	39

PRELIMINARY TEST IIIA, 1984

SEED QUALITY (score)

Strain	Mean 6 Tests	Ottumwa, IA	Stuart, IA	Urbana, IL	Lafayette, IN	Manhattan, KS	Mead, NE	Hoytville, OH	S. Charleston, OH
A8	1.8	1.9		1.8	1.5	2.0	2.0	1.4	
Century (II)	2.1	1.9		2.0	1.5	2.5	2.3	2.3	
Harper (III)	1.8	1.9		1.7	1.0	1.5	2.3	2.5	
Pella	1.9	2.1		1.5	1.5	1.5	2.0	2.8	
Sparks (IV)	1.9	1.9		1.5	1.5	2.0	2.8	1.7	
Williams 82	1.5	1.9		1.5	1.0	1.5	1.8	1.4	
AHW-Pella BC	1.9	2.2		1.5	1.5	2.0	2.0	2.1	
A83-371005	2.1	1.9		1.8	1.0	2.5	2.0	3.4	
A83-371011	1.6	1.9		1.5	1.0	1.5	1.5	2.0	
A83-371012	2.0	1.9		1.8	1.5	2.0	2.0	2.8	
A83-371017	2.0	2.1		1.7	1.5	2.5	1.5	2.6	
A83-371028	2.1	2.0		1.7	1.5	2.5	2.8	2.0	
A83-372027	1.6	1.3		1.7	1.0	2.0	1.5	1.9	
A83-373001	1.7	1.5		1.4	1.5	2.0	1.8	1.9	
A83-373003	2.0	1.5		1.9	1.0	4.0	1.5	2.2	
A83-373006	1.9	1.6		1.8	1.0	3.5	1.8	1.7	
A83-373012	1.9	2.5		1.5	1.0	3.5	1.5	1.6	
A83-373021	1.3	1.4		1.3	1.0	1.5	1.5	1.3	
A83-374002	1.6	1.4		1.8	1.0	1.5	1.8	2.3	
A83-374011	1.9	1.8		1.5	1.5	2.5	2.0	2.1	
A83-374012	1.6	1.6		1.5	1.0	1.5	1.8	2.0	
A83-374033	1.8	1.4		1.4	1.0	3.0	2.0	1.8	
HA82-361013	1.9	1.8		1.8	1.5	2.5	2.0	1.7	
K1105	1.7	2.2		1.7	1.5	1.5	2.0	1.3	
LN80-6736	1.7	2.1		1.7	1.0	1.5	2.0	1.6	
LN80-6797	1.8	1.8		1.5	1.5	1.5	1.8	2.4	
LN81-1044	1.6	1.8		1.7	1.5	1.5	1.8	1.5	
LN81-2369	1.6	1.5		1.5	1.0	2.0	1.8	2.0	
LN81-2386	1.6	1.4		1.1	1.5	1.5	1.8	2.2	
LN81-3027	1.8	1.9		1.8	1.5	1.5	2.3	1.7	
U78-83038	1.8	1.8		1.7	1.5	1.5	1.8	2.3	
U78-83051	1.8	1.6		1.5	1.0	2.0	2.3	2.6	

PRELIMINARY TEST IIIA, 1984

SEED SIZE (g/100)

Strain	Mean 6 Tests	Ottumwa, IA	Stuart, IA	Urbana, IL	Lafayette, IN	Manhattan, KS	Mead, NE	Hoytville, OH	S. Charleston, OH
A8	15.6	15.2		15.9	16.5	13.6	17.0	15.6	
Century (II)	17.1	15.2		17.8	19.4	15.7	17.3	17.2	
Harper (III)	18.6	17.0		19.8	20.6	15.8	20.9	17.5	
Pella	18.0	16.5		17.7	21.6	15.5	19.4	17.1	
Sparks (IV)	15.3	15.6		15.6	16.6	12.7	17.1	14.0	
Williams 82	16.1	15.9		15.2	16.5	15.7	18.2	15.2	
AHW-Pella BC	18.1	16.2		20.1	18.7	15.4	20.7	17.7	
A83-371005	17.3	14.2		18.9	20.6	14.9	16.7	18.3	
A83-371011	13.6	13.1		13.8	15.7	11.9	14.1	12.8	
A83-371012	14.8	12.7		16.1	15.7	13.3	16.8	14.0	
A83-371017	17.7	15.1		19.5	19.1	15.4	19.3	17.6	
A83-371028	15.9	13.9		16.6	18.2	13.4	17.6	15.5	
A83-372027	14.2	13.4		13.6	15.4	11.7	16.7	14.4	
A83-373001	14.0	12.6		15.4	14.0	12.7	15.8	13.7	
A83-373003	15.1	13.8		17.1	17.0	11.9	16.5	14.0	
A83-373006	15.4	13.4		17.8	17.4	11.5	17.4	14.6	
A83-373012	14.0	13.0		15.2	14.1	12.0	16.0	13.7	
A83-373021	13.6	13.2		15.3	13.9	10.5	15.7	13.1	
A83-374002	15.7	15.1		16.0	17.6	12.5	17.9	15.1	
A83-374011	14.1	14.0		14.1	15.9	11.9	15.3	13.2	
A83-374012	14.6	13.8		15.8	15.2	11.6	16.1	12.8	
A83-374033	15.0	13.6		16.5	17.1	12.6	15.9	14.2	
HA82-361013	17.0	16.4		18.7	18.5	14.3	18.0	16.2	
K1105	18.1	16.2		18.8	20.0	16.6	19.4	17.7	
LN80-6736	14.9	14.6		15.1	16.4	14.0	16.0	13.5	
LN80-6797	14.7	14.0		15.1	16.2	13.1	15.4	14.1	
LN81-1044	16.6	14.9		17.8	19.7	14.2	17.5	15.4	
LN81-2369	15.1	14.0		14.4	17.2	14.0	16.5	14.6	
LN81-2386	16.5	14.9		17.7	19.4	14.2	17.1	15.8	
LN81-3027	18.2	16.4		18.9	20.6	15.2	20.6	17.5	
U78-83038	14.2	13.2		14.9	16.4	11.8	14.2	14.9	
U78-83051	15.3	14.7		14.1	18.0	13.1	16.1	16.0	

PRELIMINARY TEST IIIA, 1984

PROTEIN (%)

Strain	Mean 5 Tests	Ottumwa, IA	Urbana, IL	Lafayette, IN	Manhattan, KS	Hoytville, OH
A8	40.8	41.3	41.0	42.8	39.8	39.3
Century (II)	41.0	42.5	39.7	43.0	40.2	39.5
Harper (III)	39.9	41.4	37.9	41.4	38.9	39.9
Pella	38.9	41.0	37.0	40.4	38.4	37.5
Sparks (IV)	38.4	38.6	39.6	39.7	38.4	35.8
Williams 82	40.4	41.2	40.8	42.7	38.6	38.7
AHW-Pella BC	39.4	40.8	39.2	40.4	38.5	38.1
A83-371005	37.3	40.2	36.1	37.8	36.8	35.8
A83-371011	39.9	40.9	39.6	41.4	39.0	38.7
A83-371012	38.6	40.4	38.2	40.8	36.4	37.3
A83-371017	39.7	41.2	39.5	41.6	38.1	38.3
A83-371028	40.2	42.2	39.0	42.1	39.6	38.0
A83-372027	39.3	40.3	39.2	40.4	36.7	39.7
A83-373001	39.5	40.0	41.7	41.3	37.6	36.9
A83-373003	40.4	42.7	39.0	41.8	40.5	38.1
A83-373006	38.5	39.7	38.0	40.4	39.5	34.8
A83-373012	39.2	41.1	39.0	41.0	37.8	37.0
A83-373021	39.3	40.4	38.3	41.5	38.5	37.8
A83-374002	39.1	40.7	38.5	39.8	36.7	39.7
A83-374011	38.1	39.3	38.4	40.2	35.9	36.9
A83-374012	38.2	40.0	37.9	41.1	36.7	35.5
A83-374033	38.5	40.7	37.0	39.6	37.7	37.6
HA82-361013	38.8	41.2	38.2	41.2	37.1	36.2
K1105	41.4	42.3	42.3	42.9	39.4	40.2
LN80-6736	40.6	41.5	41.1	42.2	38.0	40.0
LN80-6797	40.2	40.8	40.7	42.3	39.1	38.3
LN81-1044	40.6	42.8	39.4	42.0	38.8	40.0
LN81-2369	40.3	43.1	39.1	41.9	38.7	38.5
LN81-2386	40.4	42.4	39.5	42.3	38.2	39.6
LN81-3027	40.2	40.8	40.3	41.4	39.5	39.0
U78-83038	42.3	44.0	41.7	43.4	39.3	43.2
U78-83051	39.8	40.2	40.1	42.0	38.1	38.7

PRELIMINARY TEST IIIA, 1984

OIL (%)

Strain	Mean 5 Tests	Ottumwa, IA	Urbana, IL	Lafayette, IN	Manhattan, KS	Hoytville, OH
A8	20.8	20.5	21.4	19.8	21.3	20.9
Century (II)	21.4	20.2	22.4	20.9	22.5	20.9
Harper (III)	21.0	21.0	22.3	20.6	21.5	19.8
Pella	21.9	20.8	23.2	21.6	22.8	21.3
Sparks (IV)	21.2	21.8	21.5	21.3	21.4	19.9
Williams 82	21.6	21.9	21.9	20.3	22.7	21.0
AHW-Pella BC	22.2	21.6	23.0	22.1	22.1	22.0
A83-371005	22.5	20.8	23.6	22.1	23.7	22.1
A83-371011	20.4	19.8	21.3	20.2	20.6	19.9
A83-371012	21.6	20.1	22.5	20.8	23.1	21.3
A83-371017	21.5	20.5	22.3	20.9	23.2	20.5
A83-371028	21.6	20.5	23.1	21.0	22.8	20.8
A83-372027	21.9	21.5	22.6	21.7	22.7	21.0
A83-373001	21.9	21.6	21.0	21.3	24.5	20.9
A83-373003	20.2	19.3	21.8	20.3	19.1	20.4
A83-373006	21.9	20.9	23.7	21.3	21.5	22.0
A83-373012	21.1	20.1	22.0	21.0	21.6	20.8
A83-373021	21.5	21.7	22.6	21.0	21.7	20.6
A83-374002	22.3	21.2	23.3	22.2	23.8	20.8
A83-374011	21.6	21.3	21.6	21.6	22.8	20.5
A83-374012	21.7	21.5	22.6	20.8	22.7	20.8
A83-374033	21.3	19.9	23.2	21.4	22.0	20.1
HA82-361013	21.9	21.0	23.0	21.3	23.0	21.3
K1105	21.5	20.9	21.8	21.5	23.2	20.3
LN80-6736	21.2	20.6	21.3	20.5	23.1	20.5
LN80-6797	20.9	20.9	21.3	20.7	21.6	20.2
LN81-1044	21.0	20.1	22.0	20.5	22.6	19.7
LN81-2369	21.5	19.8	22.6	21.4	23.1	20.6
LN81-2386	21.7	20.6	22.6	21.3	23.7	20.2
LN81-3027	21.8	21.4	22.5	21.4	23.1	20.8
U78-83038	20.4	19.4	21.0	20.5	22.4	18.9
U78-83051	20.8	20.5	20.6	20.1	22.5	20.1

PRELIMINARY TEST IIIB, 1984

	Strain	Parentage	Generation Composited
1.	Century (II)	Calland x Bonus	F_6
2.	Harper (III)	Unknown	F_4
3.	Sparks (IV)	Williams x Calland	F_6
4.	Williams 82	Williams[7] x Kingwa	$4BC_6F_3$
5.	C1643	Weber x L69U37-17-5	F_5
6.	C1644	Weber x L69U37-17-5	F_5
7.	C1646	Cumberland x Century	F_5
8.	C1647	L69U40-16-4 x Cumberland	F_5
9.	C1648	CX590-122 x Century	F_7
10.	C1649	Nebsoy x Century	F_6
11.	C1652	A75-305022 x Century	F_5
12.	C1655	Hobbit x Century	F_6
13.	HS82-5930	Cumberland x PI 391583	F_4
14.	HW8366	(Pride B-216 x NK S1492) x (Pride B-216) x Pella)	F_6
15.	HW8371	HW79149 x Williams 79	F_6
16.	U80-64032	(Calland x Corsoy) x Nebsoy	F_4
17.	U80-70070	Bonus x [Wayne x (Clark x Admas)]	F_5
18.	Hobbit	Williams x Ransom	F_5
19.	HC78-350	L72U2567 x Essex	F_5
20.	HC79-3831	Essex x Elf	F_5
21.	HC79-3850	Essex x Elf	F_5
22.	HC80-585	HC74-3400 x Sprite	F_5
23.	HC80-589	HC74-3400 x Sprite	F_5
24.	HC80-1209	Essex x Elf	F_5
25.	HC80-1417	Essex x HC74-3400	F_5
26.	HC80-1613	Essex x Elf	F_5
27.	HC80-2280	Gnome x Esses	F_5
28.	HC80-2666	L74D4 x Gnome	F_5
29.	HC81-1334	Gnome x Essex	F_5
30.	HC81-1646	L74D-634 x Gnome	F_5
31.	HC81-2104	HC74-678 x Sprite	F_5
32.	LN81-2175	Will x K74-115-75-376	F_4

PRELIMINARY TEST IIIB, 1984

Descriptive and Other Data

Strain	Descriptive Code	Chlorosis Score	Shattering Score	BSR	
				Ames	
		Ames	Manhattan	Plant N %	Stem N %
Century (II)	PTBrSYBI I	3.0	2.0	90	40.8
Harper (III)	PTBrSYBI I	3.7	1.0	90	42.2
Sparks (IV)	WTT SYBI I	3.0	-	100	45.3
Williams 82	WTT SYBI I	3.5	1.0	-	--
C1643	WGBrIYBf I	3.2	3.0	-	--
C1644	PGBrIYIb I	3.3	-	-	--
C1646	PTBrSYBI I	4.3	1.0	-	--
C1647	PTT IYBI I	3.8	1.0	-	--
C1648	PTBrSYBI I	3.0	1.0	-	--
C1649	WGBrSYBf I	3.5	1.0	-	--
C1652	P+WTBrSYBI I	2.8	1.0	-	--
C1655	PTBrSYBI I	4.2	1.0	-	--
HS82-5930	WGBrSYBF I	4.0	-	-	--
HW8366	WGBrIYY I	3.3	3.0	-	--
HW8371	WGBrSYY I	3.8	1.0	-	--
U80-64032	WGBrSYBf I	4.0	2.0	-	--
U80-70070	PGT IYIb I	3.5	2.0	-	--
Hobbit	WTT SYBI D	3.5	1.0	-	--
HC78-350	PTT DYBI D	1.8	1.0	-	--
HC79-3831	PTT SYBI D	3.7	1.0	-	--
HC79-3850	PTT DYBI D	3.5	1.0	-	--
HC80-585	WTT SYBI D	3.5	-	-	--
HC80-589	WTT SYBI D	3.3	1.0	-	--
HC80-1209	PTT SYBI D	3.3	1.0	-	--
HC80-1417	PTT DYBI D	3.7	1.0	-	--
HC80-1613	PTT SYBI D	3.7	1.0	-	--
HC80-2280	PTT SYBI D	4.7	1.0	-	--
HC80-2666	PTT SYBI D	4.7	1.0	-	--
HC81-1334	PTT SYBI D	3.3	1.0	-	--
HC81-1646	P+WTT SYBI D	3.2	-	-	--
HC81-2104	WTT SYBI D	2.8	1.0	-	--
LN81-2175	WTT SYBI D	3.2	1.0	-	--

PRELIMINARY TEST IIIB, 1984

Disease Data

FE	PR				PS	PSB	SMV	GERM
Lafayette	Ames	Lafayette	Hoytville	Vickery	Lafayette			
Race 2 Score	Race 4 Reaction	Race 1 Reaction	Stand Score	Tolerance Score	a %	n %	a Score	%
4	S	R	2.9	3.0	34	1	3E	95
3	S	S	2.5	3.1	27	18	5E	67
5	S	R	1.4	3.6	43	13	5E	77
2	R	R	1.3	2.0	35	20	4E	72
3	S	S	3.7	4.1	42	42	2E	52
2	S	S	2.2	3.0	37	51	3E	37
1	R	R	2.4	2.8	43	42	4E	50
4	S	R	2.3	3.0	60	41	5E	36
5	S	R	2.3	3.3	30	19	5E	66
5	S	R	4.5	3.6	55	14	3E	46
5	S	S	2.2	3.9	43	16	5E	87
3	S	R	2.5	3.3	25	28	5E	50
5	S	S	3.4	3.6	75	52	3E	37
5	R(?)	R	1.8	3.0	64	32	4E	32
3	R(?)	S	2.4	3.6	33	34	4E	50
2	S	H	2.3	3.3	58	61	3E	23
3	S	S	2.4	3.8	42	36	5E	30
2	S	S	2.0	4.0	50	61	3E	26
1	S	S	1.8	4.0	32	32	3E	45
1	S	S	2.5	3.5	60	38	2E	40
1	S	S	2.2	4.1	19	47	1E	34
2	S	S	3.9	3.8	65	66	1E	18
1	S	S	3.3	4.0	33	20	2E	58
2	S	S	3.8	4.0	53	40	1E	41
2	S	S	2.9	3.3	52	30	2E	45
1	S	S	3.4	3.0	16	35	2E	42
1	S	S	3.1	3.8	43	62	1E	24
1	S	S	2.4	3.4	31	34	3E	40
1	S	S	3.7	3.8	31	24	3E	48
2	S	S	2.4	4.6	55	44	3E	40
2	S	S	3.6	4.3	33	39	3E	29
3	R	R	2.2	3.4	12	20	2E	62

PRELIMINARY TEST IIIB, 1984

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	7 bu/a	7 No.	7 Date	8 Score	8 In.	6 Score	6 g/100	5 %	5 %
Century (II)	46.3	10	-8.4	1.7	33	1.9	16.9	35.8	21.5
Harper (III)	47.2	5	9-22.6*	1.3	33	1.9	18.7	36.4	21.2
Sparks (IV)	41.7	27	+5.3	2.5	42	2.1	15.3	35.0	20.9
Williams 82	45.4	13	+2.4	2.0	41	1.5	15.5	36.7	21.6
C1643	43.8	20	-3.3	1.7	36	2.0	15.2	35.4	21.7
C1644	45.9	12	-7.4	1.8	34	1.9	13.8	35.5	22.8
C1646	46.6	8	-4.3	1.5	34	1.7	16.2	36.4	20.7
C1647	48.6	3	-1.7	1.5	37	2.4	19.5	34.8	21.8
C1648	43.3	24	+1.9	2.0	40	1.8	14.4	37.1	21.1
C1649	44.5	17	-1.6	1.5	32	2.1	17.8	35.9	21.9
C1652	44.8	14	+3.4	1.6	38	1.9	15.0	37.0	21.1
C1655	49.3	1	+3.1	1.7	33	1.8	16.1	36.4	21.9
HS82-5930	44.8	14	+3.4	2.0	32	2.1	16.0	36.3	22.2
HW8366	43.7	22	+1.6	1.9	43	2.1	16.3	34.7	21.7
HW8371	46.5	9	+2.1	1.7	39	2.0	15.7	37.5	20.6
U80-64032	47.9	4	-2.9	1.6	33	2.5	16.5	35.6	20.8
U80-70070	47.0	6	-0.3	1.8	38	2.1	15.4	35.6	22.6
Hobbit	46.7	7	+0.1	1.2	21	1.6	14.5	35.5	22.4
HC78-350	43.7	22	+3.3	1.2	20	1.8	16.6	37.5	22.1
HC79-3831	44.8	14	+4.7	1.2	21	1.8	12.9	35.9	21.6
HC79-3850	38.4	32	+2.4	1.2	20	1.4	12.6	37.2	20.6
HC80-585	48.7	2	-1.7	1.2	22	1.8	17.1	35.8	23.2
HC80-589	41.5	28	+3.9	1.1	20	1.6	16.9	36.5	21.5
HC80-1209	40.3	30	+0.4	1.1	21	1.7	12.6	37.3	21.7
HC80-1417	43.9	19	+3.1	1.1	19	1.7	14.5	37.3	21.3
HC80-1613	39.5	31	+3.7	1.1	17	1.6	13.1	38.4	20.1
HC80-2280	43.8	20	-2.1	1.2	21	1.8	13.1	37.8	20.3
HC80-2666	42.4	25	-2.4	1.1	20	1.5	13.8	36.9	20.8
HC81-1334	44.5	17	+3.6	1.6	21	1.5	14.9	36.8	21.2
HC81-1646	41.8	26	+3.1	1.1	21	1.6	15.8	37.7	20.4
HC81-2104	46.3	10	-0.1	1.2	21	1.6	12.2	36.4	20.5
LN81-2175	41.5	28	-0.7	1.5	23	1.6	14.1	37.5	19.5

*130 days after planting.

Three indeterminate strains exceeded the yield of Harper in this test and two of these were resistant to PR race 1. All three strains had good lodging resistance. The determinate strain HC80-585 averaged 2 bushels per acre higher in yield and about 2 days earlier in maturity than Hobbit.

PRELIMINARY TEST IIIB, 1984

YIELD (bu/a)

Strain	Mean 7 Tests	Ottumwa, IA	Stuart, IA	Urbana, IL	Lafayette, IN	Manhattan, KS	Mead, NE	Hoytville,[1] OH	S. Charleston, OH
Century (II)	46.3	41.8	33.7	54.5	51.7	42.8	34.1	16.6	65.3
Harper (III)	47.2	43.7	38.3	59.7	53.4	39.1	38.6	29.2	57.6
Sparks (IV)	41.7	38.7	33.4	50.8	52.1	33.7	19.2	42.7	63.9
Williams 82	45.4	37.5	31.4	53.6	52.1	39.0	41.1	33.3	63.3
C1643	43.8	40.1	33.2	42.9	51.6	36.0	44.1	5.7	58.4
C1644	45.9	37.9	35.5	52.5	49.8	42.8	42.0	21.0	60.5
C1646	46.6	40.6	36.3	47.6	50.8	43.0	43.4	19.1	64.2
C1647	48.6	43.7	36.3	59.6	59.0	35.9	42.5	25.9	63.4
C1648	43.3	31.0	29.1	54.6	49.5	41.0	39.7	32.1	58.2
C1649	44.5	40.2	32.7	55.2	44.7	38.0	40.8	7.4	60.1
C1652	44.8	32.0	30.5	57.0	57.1	40.0	39.2	25.7	57.6
C1655	49.3	43.1	33.5	62.9	54.8	50.1	40.1	23.9	60.4
HS82-5930	44.8	38.4	32.3	57.4	48.6	40.4	36.2	14.3	60.0
HW8366	43.7	37.6	31.3	52.6	47.2	36.8	39.2	33.9	61.3
HW8371	46.5	39.2	31.6	56.2	56.0	40.3	41.2	30.5	61.0
U80-64032	47.9	41.1	35.9	59.0	50.1	45.7	45.3	23.1	57.9
U80-70070	47.0	37.6	34.2	56.9	51.5	46.3	44.3	23.5	58.0
Hobbit	46.7	41.0	34.8	62.4	44.8	44.9	43.1	13.8	56.0
HC78-350	43.7	41.3	35.7	61.3	44.8	30.0	34.5	22.0	58.4
HC79-3831	44.8	42.0	36.2	50.8	45.4	35.5	44.4	14.0	59.3
HC79-3850	38.4	31.4	32.1	45.0	38.1	35.1	38.5	20.4	48.9
HC80-585	48.7	38.5	32.4	62.8	57.3	41.6	47.5	12.4	61.1
HC80-589	41.5	38.7	31.7	50.8	39.4	39.2	37.2	19.0	53.8
HC80-1209	40.3	33.7	30.6	52.5	38.3	37.7	38.3	6.8	51.2
HC80-1417	43.9	38.0	34.0	53.8	45.2	36.2	44.1	11.1	55.8
HC80-1613	39.5	38.5	31.5	49.8	35.2	28.7	40.7	20.0	52.0
HC80-2280	43.8	33.5	27.7	45.6	53.8	43.5	43.9	16.6	58.5
HC80-2666	42.4	36.0	27.9	51.8	44.0	36.7	42.9	24.9	57.3
HC81-1334	44.5	38.5	35.2	51.8	48.8	37.4	42.7	9.2	57.4
HC81-1646	41.8	37.7	33.8	46.9	37.3	37.7	39.9	16.7	59.6
HC81-2104	46.3	41.4	37.0	54.7	48.3	45.1	41.8	9.1	55.9
LN81-2175	41.5	32.1	27.0	41.7	48.2	40.3	40.8	28.6	60.5
C.V. (%)		6.6	8.9	12.1	9.0	8.9	8.6	50.0	5.0
L.S.D. (5%)		5.0	5.8	NS	8.9	7.1	7.1	19.6	5.9
Row sp. (in.)		27	27	30	24	30	30	30	30
Rows/plot		4	4	4	4	4	4	4	4
Reps		2	2	2	2	2	2	2	2

[1]Data not included in the mean.

PRELIMINARY TEST IIIB, 1984

YIELD RANK

Strain		Ottumwa, IA	Stuart, IA	Urbana, IL	Lafayette, IN	Manhattan, KS	Mead, NE	Hoytville, OH	S. Charleston, OH
Century (II)	10	5	14	15	10	8	31	21	1
Harper (III)	5	1	1	5	7	17	25	6	22
Sparks (IV)	27	14	16	23	8	30	32	1	3
Williams 82	13	25	25	17	8	18	16	3	5
C1643	20	12	17	31	11	26	6	32	17
C1644	12	21	8	19	15	8	13	15	9
C1646	8	10	3	27	13	7	8	18	2
C1647	3	1	3	6	1	27	12	8	4
C1648	24	32	29	14	16	11	22	4	19
C1649	17	11	18	12	26	19	17	30	12
C1652	14	30	28	9	3	15	23	9	22
C1655	1	3	15	1	5	1	20	11	11
HS82-5930	14	19	20	8	18	12	29	23	13
HW8366	22	23	26	18	21	23	24	2	6
HW8371	9	13	23	11	4	13	15	5	8
U80-64032	4	8	6	7	14	3	2	13	21
U80-70070	6	23	11	10	12	2	4	12	20
Hobbit	7	9	10	3	24	5	9	25	26
HC78-350	22	7	7	4	24	31	30	14	17
HC79-3831	14	4	5	23	22	28	3	24	15
HC79-3850	32	31	21	30	30	29	26	16	32
HC80-585	2	16	19	2	2	10	1	26	7
HC80-589	28	14	22	23	28	16	28	19	29
HC80-1209	30	27	27	19	29	20	27	31	31
HC80-1417	19	20	12	16	23	25	5	27	28
HC80-1613	31	16	24	26	32	32	19	17	30
HC80-2280	20	28	31	29	6	6	7	21	16
HC80-2666	25	26	30	21	27	24	10	10	25
HC81-1334	17	16	9	21	17	22	11	28	24
HC81-1646	26	22	13	28	31	20	21	20	14
HC81-2104	10	6	2	13	19	4	14	29	27
LN81-2175	28	29	32	32	20	13	17	7	9

PRELIMINARY TEST IIIB, 1984

MATURITY (date)

Strain	Mean 7 Tests	Ottumwa, IA	Stuart, IA	Urbana, IL	Lafayette, IN	Manhattan, KS	Mead, NE	Hoytville, OH	S. Charleston, OH
Century (II)	-8.4		-9	-7	-7	-14	-10	-9	-3
Harper (III)	9-22.6		9-18	9-17	9-13	9-24	10-2	10-2	9-22
Sparks (IV)	+5.3		+8	+6	+6	+3	+4	+5	+5
Williams 82	+2.4		+2	+2	+2	+2	-1	+5	+5
C1643	-3.3		-2	-6	-3	-10	-4	+1	+1
C1644	-7.4		-8	-6	-8	-12	-8	-8	-2
C1646	-4.3		-4	-6	-5	-7	-3	-4	-1
C1647	-1.7		-2	-1	-4	-1	-1	-4	+1
C1648	+1.9		+4	+2	+1	0	0	+1	+5
C1649	+1.6		-2	-1	-4	-3	-3	+2	0
C1652	+3.4		+3	+5	+3	+2	0	+4	+7
C1655	+3.1		+2	+7	+4	+1	0	+1	+7
HS82-5930	+3.4		+6	+2	+4	0	0	+7	+5
HW8366	+1.6		+1	+3	+4	0	-4	+2	+5
HW8371	+2.1		+4	+2	+2	+1	0	+3	+3
U80-64032	-2.9		-6	+2	-3	-4	-4	-4	-1
U80-70070	-0.3		0	-1	-3	-2	-1	+4	+1
Hobbit	+0.1		-2	+7	+1	-1	-5	-1	+2
HC78-350	+3.3		+6	+11	-7	+3	0	+5	+5
HC79-3831	+4.7		+4	+5	+8	+2	-1	+6	+9
HC79-3850	+2.4		+3	+3	+5	0	-2	+3	+5
HC80-585	-1.7		0	+9	0	+2	-4	0	+3
HC80-589	+3.9		+3	+6	+5	+2	-1	+4	+8
HC80-1209	+0.4		+3	0	+4	+1	-6	-3	+4
HC80-1417	+3.1		+4	+5	+3	+1	0	+4	+5
HC80-1613	+3.7		+4	+1	+7	+1	-1	+6	+8
HC80-2280	-2.1		-3	-4	0	-2	-8	0	+2
HC80-2666	-2.4		-2	-1	-3	-4	-5	-3	+1
HC81-1334	+3.6		+4	+3	+5	+4	-1	+5	+5
HC81-1646	+3.1		+2	+1	+6	+3	-2	+4	+8
HC81-2104	-0.1		+2	+2	0	-1	-6	+1	+1
LN81-2175	-0.7		+2	-5	-1	-3	-4	+4	+2
Date planted	5-16		5-15	5-7	5-10	5-31	6-1	5-15	5-2
Days to mature	130		126	133	126	116	123	140	143

PRELIMINARY TEST IIIB, 1984

LODGING (score)

Strain	Mean 8 Tests	Ottumwa, IA	Stuart, IA	Urbana, IL	Lafayette, IN	Manhattan, KS	Mead, NE	Hoytville, OH	S. Charleston, OH
Century (II)	1.7	4.3	2.0	1.0	1.0	2.0	1.0	1.3	1.0
Harper (III)	1.3	2.3	1.6	1.0	1.0	1.5	1.0	1.3	1.0
Sparks (IV)	2.5	4.4	2.2	2.0	2.0	2.0	2.0	2.2	2.8
Williams 82	2.0	3.8	2.6	1.0	1.8	2.0	1.3	1.7	2.0
C1643	1.7	3.4	1.9	1.0	1.5	2.0	1.0	1.2	1.5
C1644	1.8	4.4	2.1	1.0	1.0	2.0	1.0	1.2	1.8
C1646	1.5	3.3	1.6	1.0	1.0	1.5	1.0	1.3	1.0
C1647	1.5	3.2	1.6	1.0	1.0	2.0	1.0	1.2	1.0
C1648	2.0	4.4	2.3	1.0	1.8	2.0	1.0	1.3	2.3
C1649	1.5	3.4	1.5	1.0	1.3	1.5	1.0	1.1	1.0
C1652	1.6	3.9	1.6	1.0	1.5	1.5	1.0	1.3	1.3
C1655	1.7	3.3	1.8	1.0	1.8	1.5	1.0	1.2	2.0
HS82-5930	2.0	4.8	2.0	1.0	2.0	2.0	1.0	1.2	1.8
HW8366	1.9	3.9	1.7	1.0	1.8	2.0	1.0	1.3	2.3
HW8371	1.7	3.3	1.7	1.0	1.5	1.5	1.5	1.4	1.5
U80-64032	1.6	3.7	1.7	1.0	1.5	1.5	1.0	1.1	1.3
U80-70070	1.8	3.3	2.6	1.0	1.8	1.5	1.5	1.4	1.0
Hobbit	1.2	1.6	1.3	1.0	1.0	1.0	1.0	1.0	1.5
HC78-350	1.2	1.6	1.5	1.0	1.0	1.0	1.0	1.1	1.3
HC79-3831	1.2	1.7	1.7	1.0	1.0	1.0	1.0	1.0	1.3
HC79-3850	1.2	2.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0
HC80-585	1.2	1.5	1.4	1.0	1.0	1.0	1.0	1.0	1.5
HC80-589	1.1	1.2	1.3	1.0	1.0	1.0	1.0	1.0	1.0
HC80-1209	1.1	1.4	1.4	1.0	1.0	1.0	1.0	1.0	1.0
HC80-1417	1.1	1.4	1.3	1.0	1.0	1.0	1.0	1.0	1.0
HC80-1613	1.1	1.5	1.4	1.0	1.0	1.0	1.0	1.0	1.0
HC80-2280	1.2	1.6	1.5	1.0	1.0	1.0	1.0	1.0	1.3
HC80-2666	1.1	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0
HC81-1334	1.6	1.6	1.4	1.0	1.0	1.0	1.0	4.0	1.5
HC81-1646	1.1	1.4	1.4	1.0	1.0	1.0	1.0	1.0	1.0
HC81-2104	1.2	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.3
LN81-2175	1.5	2.8	1.8	1.0	1.0	1.0	1.0	1.2	1.8

PRELIMINARY TEST IIIB, 1984

PLANT HEIGHT (Inches)

Strain	Mean 8 Tests	Ottumwa, IA	Stuart, IA	Urbana, IL	Lafayette, IN	Manhattan, KS	Mead, NE	Hoytville, OH	S. Charleston, OH
Century (II)	33	40	36	32	33	31	31	22	37
Harper (III)	33	39	33	35	36	36	25	23	33
Sparks (IV)	42	48	44	44	43	44	34	35	43
Williams 82	41	46	42	42	43	44	35	38	40
C1643	36	43	38	35	38	34	35	23	41
C1644	34	42	38	33	36	32	30	24	36
C1646	34	42	36	34	36	33	28	22	38
C1647	37	44	40	38	38	37	33	27	36
C1648	40	46	43	44	40	41	35	31	41
C1649	32	42	34	32	36	31	25	20	33
C1652	38	44	36	41	42	38	32	26	42
C1655	33	38	36	37	40	24	26	26	40
HS82-5930	32	34	34	39	36	35	28	18	33
HW8366	43	50	45	47	46	48	36	29	43
HW8371	39	43	40	41	42	42	35	27	40
U80-64032	33	39	32	30	36	34	29	20	31
U80-70070	38	48	42	36	42	35	35	24	40
Hobbit	21	24	24	21	21	20	21	13	20
HC78-350	20	22	22	21	20	18	21	13	21
HC79-3831	21	23	26	23	23	19	23	11	17
HC79-3850	20	22	22	24	21	19	22	11	20
HC80-585	22	24	26	25	22	21	23	9	22
HC80-589	20	22	22	21	23	19	22	11	19
HC80-1209	21	24	22	23	21	19	23	13	21
HC80-1417	19	24	22	21	20	18	21	8	21
HC80-1613	17	20	20	19	18	16	17	9	16
HC80-2280	21	22	23	22	25	20	22	11	21
HC80-2666	20	22	23	23	21	18	21	11	21
HC81-1334	21	22	24	23	22	20	23	10	26
HC81-1646	21	24	24	22	19	18	22	13	22
HC81-2104	21	24	28	22	21	20	22	13	21
LN81-2175	23	26	28	25	26	22	23	14	23

PRELIMINARY TEST IIIB, 1984

SEED QUALITY (score)

Strain	Mean 6 Tests	Ottumwa, IA	Stuart, IA	Urbana, IL	Lafayette, IN	Manhattan, KS	Mead, NE	Hoytville, OH	S. Charleston, OH
Century (II)	1.9	1.4		2.0	1.5	2.0	2.3	2.0	
Harper (III)	1.9	1.7		1.7	1.0	3.0	2.0	2.0	
Sparks (IV)	2.1	1.9		1.5	1.5	3.0	2.8	1.8	
Williams 82	1.5	1.5		1.5	1.0	2.0	1.5	1.7	
C1643	2.0	1.8		1.8	1.5	3.0	1.5	2.3	
C1644	1.9	1.4		1.7	1.5	3.0	2.0	1.9	
C1646	1.7	1.3		1.5	1.5	2.0	2.0	1.6	
C1647	2.4	2.0		1.8	2.0	4.0	2.0	2.5	
C1648	1.8	1.4		1.3	1.0	3.0	1.8	2.2	
C1649	2.1	1.8		1.9	1.5	3.0	1.8	2.6	
C1652	1.9	1.8		1.8	1.5	3.0	1.8	1.3	
C1655	1.8	1.7		1.5	1.0	3.0	1.8	2.0	
HS82-5930	2.1	1.9		1.5	1.5	3.0	2.3	2.4	
HW8366	2.1	2.0		1.5	1.5	4.0	1.8	1.8	
HW8371	2.0	1.9		1.7	1.5	3.0	2.0	1.6	
U80-64032	2.5	2.0		2.2	2.0	4.0	2.3	2.3	
U80-70070	2.1	1.9		1.8	1.5	3.0	2.0	2.4	
Hobbit	1.6	1.4		1.1	1.0	2.0	1.5	2.4	
HC78-350	1.8	1.5		1.9	2.0	2.0	1.8	1.5	
HC79-3831	1.8	1.5		1.5	1.0	3.0	1.3	2.3	
HC79-3850	1.4	1.3		1.3	1.0	2.0	1.5	1.4	
HC80-585	1.8	1.5		1.5	1.0	3.0	1.5	2.1	
HC80-589	1.6	1.8		1.3	1.0	2.0	1.8	1.6	
HC80-1209	1.7	1.4		1.5	1.0	3.0	1.5	1.7	
HC80-1417	1.7	1.3		1.3	1.0	3.0	1.5	2.2	
HC80-1613	1.6	1.6		1.1	1.0	3.0	1.3	1.4	
HC80-2280	1.8	1.5		1.1	1.5	3.0	1.8	2.0	
HC80-2666	1.5	1.5		1.1	1.0	2.0	1.5	2.0	
HC81-1334	1.5	1.5		1.1	1.0	2.0	1.5	2.1	
HC81-1646	1.6	1.4		1.1	1.0	2.0	1.5	2.3	
HC81-2104	1.6	1.4		1.1	1.0	2.0	1.5	2.5	
LN81-2175	1.6	1.7		1.3	1.5	2.0	1.5	1.3	

PRELIMINARY TEST IIIB, 1984

SEED SIZE (g/100)

Strain	Mean 6 Tests	Ottumwa, IA	Stuart, IA	Urbana, IL	Lafayette, IN	Manhattan, KS	Mead, NE	Hoytville, OH	S. Charleston, OH
Century (II)	16.9	15.2		17.8	19.4	15.8	16.3	16.8	
Harper (III)	18.7	16.9		19.8	20.6	16.7	19.9	18.0	
Sparks (IV)	15.3	15.4		15.6	16.6	13.2	15.8	15.4	
Williams 82	15.5	16.1		15.2	16.5	14.2	15.4	15.4	
C1643	15.2	11.8		15.0	18.7	14.7	14.9	15.8	
C1644	13.8	11.8		15.2	13.9	13.3	14.7	13.9	
C1646	16.2	14.8		15.2	16.9	16.3	17.8	16.2	
C1647	19.5	18.2		20.5	20.6	17.8	20.1	19.5	
C1648	14.4	13.9		15.5	15.1	12.3	15.5	14.3	
C1649	17.8	14.9		19.4	19.2	17.6	17.9	17.7	
C1652	15.0	13.8		16.4	16.4	13.2	15.3	14.7	
C1655	16.1	14.5		16.5	16.5	16.0	17.7	15.3	
HS82-5930	16.0	13.9		16.1	18.3	15.2	16.9	15.8	
HW8366	16.3	15.9		17.5	16.8	14.9	17.0	15.6	
HW8371	15.7	15.5		15.7	19.3	14.1	15.3	14.2	
U80-64032	16.5	13.2		20.0	17.0	16.5	16.3	16.1	
U80-70070	15.4	14.0		16.1	15.0	15.7	16.7	14.6	
Hobbit	14.5	13.1		16.0	15.2	14.6	13.5	14.7	
HC78-350	16.6	16.2		17.7	18.1	14.3	16.0	17.0	
HC79-3831	12.9	12.4		11.9	13.8	12.4	12.7	14.3	
HC79-3850	12.6	11.2		12.4	12.2	13.1	12.4	14.1	
HC80-585	17.1	14.4		19.1	17.0	17.0	16.1	18.9	
HC80-589	16.9	14.2		17.3	19.0	17.5	14.6	18.5	
HC80-1209	12.6	11.8		12.6	13.0	12.6	11.5	13.8	
HC80-1417	14.5	12.1		14.6	14.8	13.8	15.8	16.1	
HC80-1613	13.1	11.4		12.9	14.2	12.9	12.7	14.2	
HC80-2280	13.1	11.5		12.6	14.0	11.9	13.3	15.3	
HC80-2666	13.8	12.2		13.7	14.5	13.0	14.6	14.5	
HC81-1334	14.9	13.2		14.0	14.8	15.0	14.3	17.8	
HC81-1646	15.8	14.1		15.6	17.2	16.1	14.3	17.3	
HC81-2104	12.2	11.0		12.3	11.3	12.5	12.5	13.4	
LN81-2175	14.1	11.6		13.1	14.9	14.2	14.5	16.1	

PRELIMINARY TEST IIIB, 1984

PROTEIN (%)

Strain	Mean 5 Tests	Ottumwa, IA	Urbana, IL	Lafayette, IN	Manhattan, KS	Hoytville, OH
Century (II)	35.8	37.8	39.5	42.0	38.6	20.9
Harper (III)	36.4	40.6	39.8	41.4	39.6	20.6
Sparks (IV)	35.0	38.1	39.7	40.1	36.7	20.4
Williams 82	36.7	41.1	40.5	42.1	39.5	20.3
C1643	35.4	41.5	36.0	40.5	37.5	21.3
C1644	35.5	40.6	36.4	39.9	37.7	22.7
C1646	36.4	42.9	39.4	41.7	38.9	18.9
C1647	34.8	39.2	37.7	39.5	36.4	21.1
C1648	37.1	41.8	41.5	42.3	38.6	21.5
C1649	35.9	41.6	38.5	41.2	37.3	20.7
C1652	37.0	42.0	40.8	42.8	38.9	20.5
C1655	36.4	40.2	39.7	42.0	38.7	21.4
HS82-5930	36.3	41.6	39.0	41.9	37.9	21.1
HW8366	34.7	38.5	38.0	38.8	37.1	21.0
HW8371	37.5	43.4	40.9	43.9	39.2	19.9
U80-64032	35.6	40.9	38.7	41.4	37.4	19.7
U80-70070	35.6	41.3	38.7	40.7	36.3	21.0
Hobbit	35.5	42.7	37.9	38.8	35.7	22.3
HC78-350	37.5	44.1	40.7	41.7	40.0	21.0
HC79-3831	35.9	41.2	39.0	41.2	37.0	21.1
HC79-3850	37.2	43.4	40.5	42.2	40.0	20.1
HC80-585	35.8	41.9	37.1	40.3	37.0	22.9
HC80-589	36.5	42.7	39.0	41.6	38.1	21.2
HC80-1209	37.3	42.6	41.0	42.3	39.1	21.6
HC80-1417	37.3	43.5	40.4	42.2	39.8	20.6
HC80-1613	38.4	44.3	42.6	44.3	41.4	19.5
HC80-2280	37.8	44.4	40.8	44.1	39.5	20.0
HC80-2666	36.9	43.0	40.0	41.9	38.8	20.9
HC81-1334	36.8	43.5	40.2	42.5	37.7	20.2
HC81-1646	37.7	43.6	41.7	43.1	40.3	19.7
HC81-2104	36.4	44.0	39.2	41.2	37.6	20.0
LN81-2175	37.5	44.3	41.2	43.7	39.1	19.4

PRELIMINARY TEST IIIB, 1984

OIL (%)

Strain	Mean 5 Tests	Ottumwa, IA	Urbana, IL	Lafayette, IN	Manhattan, KS	Hoytville, OH
Century (II)	21.5	21.2	22.6	20.4	22.4	20.9
Harper (III)	21.2	21.0	21.7	20.8	21.9	20.6
Sparks (IV)	20.9	20.7	21.5	19.6	22.3	20.4
Williams 82	21.6	21.6	22.5	20.7	22.7	20.3
C1643	21.7	20.4	23.2	20.4	23.4	21.3
C1644	22.8	20.8	24.6	22.0	24.0	22.7
C1646	20.7	20.0	22.1	20.2	22.4	18.9
C1647	21.8	21.2	22.4	21.3	23.0	21.1
C1648	21.1	20.9	20.8	19.6	22.8	21.5
C1649	21.9	20.4	23.2	21.5	23.9	20.7
C1652	21.1	20.9	21.4	20.3	22.3	20.5
C1655	21.9	21.1	22.7	21.1	23.4	21.4
HS82-5930	22.2	21.6	23.7	20.8	23.6	21.1
HW8366	21.7	20.9	22.6	20.9	23.1	21.0
HW8371	20.6	19.7	21.2	19.9	22.2	19.9
U80-64032	20.8	19.7	21.9	19.9	22.8	19.7
U80-70070	22.6	21.7	23.2	22.2	24.9	21.0
Hobbit	22.4	20.1	23.8	21.0	24.9	22.3
HC78-350	22.1	20.8	23.6	22.1	23.1	21.0
HC79-3831	21.6	21.1	21.7	20.9	23.3	21.1
HC79-3850	20.6	19.1	21.7	19.9	22.4	20.1
HC80-585	23.2	21.3	25.1	22.5	24.2	22.9
HC80-589	21.5	20.3	22.4	21.0	22.8	21.2
HC80-1209	21.7	20.1	22.5	20.8	23.6	21.6
HC80-1417	21.3	20.1	22.6	20.7	22.4	20.6
HC80-1613	20.1	19.1	20.6	20.0	21.4	19.5
HC80-2280	20.3	18.8	21.3	19.0	22.5	20.0
HC80-2666	20.8	18.4	21.6	20.3	22.6	20.9
HC81-1334	21.2	19.6	22.0	20.9	23.2	20.2
HC81-1646	20.4	18.8	21.7	20.1	21.5	19.7
HC81-2104	20.5	18.9	21.7	19.6	22.3	20.0
LN81-2175	19.5	18.2	20.4	18.3	21.4	19.4

	Strain	Parentage	Previous* Testing	Generation Composited	Descriptive Code
1.	Douglas	Williams x Calland	6	F_5	WTBrIYBr I
2.	Franklin	L12 x Custer	5	F_3	PGBrDYIb I
3.	Pixie	Williams x Ransom	6	F_5	PTT SYBI D
4.	Sparks (IV)	$Williams_5$ x Calland	5	F_5^6	WTT SYBI I
5.	Union	$Williams^7$ x SL12 (Wayne Rpm Rps_1)	-	$9BC_4^6$ F_3	WTT SYBI I
6.	Williams 82 (III)	$Williams_8$ x Kingwa	2	$4BC_6$ F_3	WTT SYBI I
7.	C-Union BC	$Union^8$ x (PI 86972-1 x PI 84637)	-	BC_7^7 F_3	WTT SYBI I
8.	C1635	Union x Century	PT IV	F_5	WTT SYBI I
9.	HC77-2204	Hodgson x V68-1034	2	F_5	PGT IYBf D
10.	HC78-1093	L72U-2567 x Essex	PT IV	F_5	PTT IYBI D
11.	HC78-1119	L72U-2567 x Essex	PT IV	F_5	PTT SYBI D
12.	HC78-1279	L72U-2567 x Ransom	PT IV	F_5	PTT SYBI D
13.	HC78-2509	L72U-2567 x Ransom	PT IV	F_5	PTT SYBI D
14.	HC78-2510	L72U-2567 x Ransom	PT IIIA	F_5	PTT IYBI D
15.	HC78-2836	L72U-2567 x Essex	PT IIIA	F_5	PTT IYBI D
16.	HC79-1644	L72U-2567 x Ransom	1	F_5	PTT SYBI D
17.	HC79-1737	L72U-2567 x Essex	PT IV	F_5	PTT DYBI D
18.	LN80-8184	A76-304020 x Century	1	F_4	WTBrIYBI I
19.	LS78W-110	Franklin x Nathan	1	F_4	PGT IYBI I
20.	Md79-5043	Union x Miles	1	F_5	WTT IYBI I
21.	Md80-IL2-I	Forrest x (Bonus x Cutler)	PT IV	F_7	WTBrDYBI I
22.	V80-174B	Hodgson x Essex	PT IV	F_5	PGT DYIb D

*Number of years in test or 1983 test.

UNIFORM TEST IV, 1984

Descriptive and Disease Data

Strain	Emergence Score	Shattering Score			BSR Ames		BTS Ames	FE Lafayette
					Plant N	Stem N		
	Ames	Columbia	Lubbock	Manhattan	%	%	a Score	Race 2 Score
Douglas	4	1.0	1.5	1.0	-	--	3	3
Franklin	2	1.0	2.7	1.0	-	--	5	5
Pixie	2	1.0	2.5	1.0	-	--	2	1
Sparks (IV)	3	1.6	2.3	-	-	--	-	5
Union	4	1.0	2.0	1.0	-	--	4	5
Williams 82 (III)	4	1.0	2.2	1.0	-	--	3	2
C-Union BC	2	1.0	2.0	1.0	-	--	4	4
C1635	5	1.0	2.0	1.0	-	--	3	5
HC77-2204	1	1.0	1.8	1.0	-	--	3	5
HC78-1093	1	1.0	4.0	1.0	-	--	3	1
HC78-1119	2	1.0	2.5	1.0	-	--	2	1
HC78-1279	2	1.1	4.3	1.0	-	--	2	1
HC78-2509	1	1.3	4.0	1.0	-	--	3	1
HC78-2510	1	1.3	3.3	1.0	-	--	3	1
HC78-2836	1	1.1	3.7	1.0	-	--	2	1
HC79-1644	1	1.1	1.7	1.0	-	--	3	1
HC79-1737	1	1.0	3.0	1.0	-	--	3	1
LN80-8184	1	1.0	1.7	2.0	100	60.7	3	4
LS78W-110	1	1.0	1.7	1.0	100	73.6	4	3
Md79-5043	1	1.0	2.7	2.0	70	39.0	4	4
Md80-1L2-1	1	1.1	4.2	1.0	90	54.6	3	5
V80-174B	3	1.0	1.5	1.0	-	--	3	5

UNIFORM TEST IV, 1984

Disease Data

Strain	PR			PS	PSB	SMV	GERM
	Ames	Lafayette	Vickery	Lafayette			
	Race 4 Reaction	Race 1 Reaction	Tolerance Score	a %	n %	a Score	%
Douglas	S	R	3.4	27	5	5E	57
Franklin	S	R	3.1	26	3	5M	89
Pixie	S	S	3.9	16	0	3E	98
Sparks (IV)	S	R	3.3	32	23	5E	71
Union	S	S	3.0	17	7	5E	87
Williams 82 (III)	R	R	2.8	49	12	4E	73
C-Union BC	R	R	2.6	21	4	5E	91
C1635	S	R	4.3	66	35	5E	28
HC77-2204	R(?)	R	2.8	4	40	2E	45
HC78-1093	S	R	3.4	27	24	4E	60
HC78-1119	S	R	4.1	14	28	4E	58
HC78-1279	S	S	3.4	63	29	4E	36
HC78-2509	S	S	3.5	27	18	4E	51
HC78-2510	S	S	4.0	43	46	1	35
HC78-2836	S	S	3.5	53	47	3E	24
HC79-1644	S	S	4.4	66	26	2E	35
HC79-1737	S	S	3.0	48	27	3E	58
LN80-8184	S	S	3.1	29	20	5E	46
LS78W-110	S	S	3.6	30	12	5E	76
Md79-5043	S	S	3.3	15	18	5E	62
Md80-1L2-1	-	R	4.0	47	16	5E	81
V80-174B	-	S	3.3	7	8	4E	92

UNIFORM TEST IV, 1984

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	18 bu/a	18 No.	17 Date	18 Score	18 In.	18 Score	16 g/100	2 %	2 %
Douglas	42.4	12	+5.7	1.9	38	2.6	18.2	40.0	21.8
Franklin	36.1	22	-0.1	2.3	43	2.4	15.3	36.3	22.3
Pixie	42.6	9	-1.6	1.3	21	1.8	17.0	40.4	22.0
Sparks (IV)	39.8	19	9-25.9*	2.3	41	2.2	16.6	38.5	22.1
Union	44.4	5	-1.7	2.4	43	2.0	18.7	40.1	21.9
Williams 82 (III)	42.6	9	-3.8	1.8	39	1.9	16.9	40.3	22.1
C-Union BC	44.6	4	-1.6	2.3	41	1.9	17.5	40.2	22.1
C1635	44.7	3	-0.6	1.5	37	2.1	18.4	41.7	21.1
HC77-2204	44.0	6	-0.8	1.3	23	1.7	13.7	37.8	22.1
HC78-1093	42.5	11	+1.5	1.2	19	1.8	18.3	42.2	21.7
HC78-1119	43.3	7	+2.9	1.2	20	1.9	18.8	42.5	21.4
HC78-1279	39.0	21	-1.1	1.1	20	1.9	16.0	40.1	22.4
HC78-2509	40.6	17	-1.5	1.2	21	1.9	16.4	38.3	24.0
HC78-2510	39.3	20	-3.8	1.2	20	2.0	16.0	37.6	24.2
HC78-2836	40.7	16	-2.2	1.1	19	2.2	17.6	40.7	22.5
HC79-1644	42.4	12	+0.4	1.2	20	1.7	16.5	38.7	23.4
HC79-1737	40.8	15	+0.2	1.3	20	1.8	18.4	42.3	21.1
LN80-8184	44.8	2	-0.5	2.0	36	2.1	16.4	39.7	21.6
LS78W-110	40.3	18	+4.8	2.6	44	2.1	14.5	38.2	21.8
Md79-5043	45.7	1	+1.1	1.9	40	1.8	17.2	41.2	20.7
Md80-1L2-1	42.8	8	+3.5	2.4	45	2.2	15.3	38.2	21.9
V80-174B	42.3	14	+5.4	2.0	27	1.9	14.3	37.1	23.0

*128 days after planting.

UNIFORM TEST IV, 1984

1983-1984 2-Year Mean

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	34	34	32	34	35	36	33	6	6
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Douglas	39.4	7	+4.2	1.7	36	2.7	17.2	41.5	21.5
Franklin	33.7	9	-0.2	2.1	41	2.6	14.4	38.0	22.5
Pixie	40.1	5	-1.1	1.3	21	2.0	16.1	40.8	22.3
Sparks (IV)	39.5	6	9-25.4*	2.3	39	2.4	16.3	40.0	22.2
Williams 82 (III)	40.5	3	-3.3	1.7	37	2.0	15.9	40.4	22.4
HC77-2204	42.3	1	-0.6	1.3	23	1.8	13.2	38.9	22.6
HC79-1644	40.2	4	+0.5	1.2	20	2.0	15.8	39.6	23.6
LN80-8184	42.3	1	-0.8	1.8	33	2.6	15.8	40.8	21.5
LS78W-110	37.2	8	+3.8	2.3	40	2.4	13.7	38.9	22.4
Md79-5043	41.9	2	+0.6	1.8	37	2.0	15.9	42.1	21.2

*126 days after planting

1982-1984 3-Year Mean

No. of Tests	54	54	50	54	55	56	52	11	11
Douglas	42.6	4	5.6	1.7	36	2.7	17.7	41.2	20.2
Franklin	36.5	6	+1.7	2.1	41	2.5	14.7	38.2	21.1
Pixie	41.9	5	0.0	1.3	21	1.8	16.3	41.0	21.0
Sparks (IV)	42.9	2	9-24.2*	2.2	40	2.3	16.7	39.6	20.7
Williams 82 (III)	42.8	3	-2.5	1.7	37	1.9	16.3	40.5	21.0
HC77-2204	45.0	1	0.0	1.4	24	1.7	13.4	38.9	21.0

*127 days after planting

The strain Md79-5043 was the highest yielding entry in 1984, the strains HC77-2204 and LN80-8184 had the highest two-year mean yield and HC77-2204 had the highest three-year mean yield. All three strains matured within one day of Sparks and all three had very good resistance to lodging. HC77-2204 was susceptible to race 2 of frogeye leafspot but resistant to race 1 of PR. LN80-8184 and Md79-5043 were susceptible to frogeye leafspot race 2 and to PR races 1 and 4.

UNIFORM TEST IV, 1984

YIELD

Strain	Mean 18 Tests	Belleville, IL	Carbondale, IL	Eldorado, IL	Greenfield, IN	Lafayette, IN	Sullivan, IN	Manhattan, KS	Topeka, KS
Douglas	42.4	51.3	23.1	49.1	33.7	48.8	33.3	30.9	49.0
Franklin	36.1	44.2	20.9	39.9	33.8	42.5	29.2	26.9	47.6
Pixie	42.6	58.1	32.3	50.2	29.1	48.5	34.6	42.4	36.8
Sparks (IV)	39.8	46.6	32.9	42.3	36.5	48.5	36.6	31.7	50.8
Union	44.4	50.8	29.5	48.1	39.2	46.2	46.8	38.9	58.6
Williams 82 (III)	42.6	55.2	30.8	45.6	41.8	51.4	33.2	36.9	52.5
C-Union BC	44.6	54.7	33.1	49.4	43.9	53.0	38.1	40.9	53.7
C1635	44.7	55.1	32.8	49.7	40.3	54.3	39.9	35.4	48.4
HC77-2204	44.0	59.7	49.7	48.4	31.2	51.9	22.4	38.1	49.2
HC78-1093	42.5	55.6	37.5	49.0	23.9	52.0	32.6	37.7	39.1
HC78-1119	43.3	59.9	33.0	55.5	32.2	48.1	29.9	37.8	44.1
HC78-1279	39.0	54.7	36.2	46.8	25.3	48.7	17.6	35.9	38.0
HC78-2509	40.6	54.6	39.9	45.5	16.6	51.8	18.4	39.6	49.1
HC78-2510	39.3	53.6	34.4	42.5	17.6	50.3	21.2	37.3	42.3
HC78-2836	40.7	52.1	30.6	42.5	34.0	52.6	18.4	43.2	37.3
HC79-1644	42.4	61.2	41.5	54.2	25.6	50.5	28.3	34.8	44.7
HC79-1737	40.8	56.8	36.0	48.6	29.2	46.9	23.9	35.5	44.6
LN80-8184	44.8	50.6	39.7	47.9	42.3	48.1	34.7	35.1	53.7
LS78W-110	40.3	54.2	27.9	--	29.7	42.7	39.0	27.2	55.6
Md79-5043	45.7	55.5	39.8	51.8	45.9	53.1	50.5	33.6	56.7
Md80-1L2-1	42.8	59.0	38.0	41.5	40.4	54.0	34.6	31.4	50.5
V80-174B	42.3	62.2	43.3	43.5	29.9	52.5	30.7	31.2	42.9
C.V. (%)		6.5	15.2	9.6	15.1	8.3	23.8	9.8	11.0
L.S.D.		7.2	8.6	7.1	8.7	6.7	12.4	5.7	8.6
Row sp. (in.)		30	30	30	30	24	28	30	30
Rows/plot		4	4	4	3	4	3	4	4
Reps		3	3	3	3	3	3	3	3

UNIFORM TEST IV, 1984

YIELD (bu/a)

Strain	Lexington, KY	Queenstown, MD	Portageville, MO Clay	Portageville, MO Loam	Columbia, MO	Adelphia, NJ	Ripley, OH	S. Charleston, OH	Landisville, PA	Lubbock, TX
Douglas	31.9	39.6	19.5	53.4	43.6	40.4	42.8	61.3	75.4	36.0
Franklin	26.4	32.5	18.7	51.8	34.8	31.7	37.3	53.1	64.1	14.2
Pixie	31.8	47.3	13.0	42.8	51.4	54.9	43.3	61.1	70.7	17.7
Sparks (IV)	32.0	43.9	16.8	44.6	32.4	42.4	41.0	60.3	53.5	24.4
Union	32.4	41.7	23.2	54.2	41.1	42.7	42.4	62.3	77.6	23.0
Williams 82 (III)	30.8	44.1	21.5	56.6	35.4	42.3	36.3	60.4	71.6	19.5
C-Union BC	33.1	43.3	23.6	55.3	39.1	40.6	38.9	64.8	73.9	23.8
C1635	36.3	46.5	20.2	54.3	40.0	45.8	38.1	61.5	76.8	28.8
HC77-2204	30.9	41.4	15.6	52.4	41.5	46.1	44.2	60.8	75.3	32.8
HC78-1093	32.3	45.0	18.8	45.6	55.4	53.2	42.3	57.6	64.7	22.0
HC78-1119	32.7	44.4	15.9	52.5	51.3	56.5	38.5	58.4	69.7	19.0
HC78-1279	32.5	44.8	9.2	44.1	45.4	50.6	43.8	53.5	65.2	9.9
HC78-2509	32.5	46.7	9.2	47.1	45.4	48.4	38.6	59.7	76.4	10.7
HC78-2510	42.9	42.9	9.5	52.9	43.8	45.0	38.2	57.7	74.5	13.8
HC78-2836	31.7	53.5	11.0	46.4	45.6	58.4	36.4	58.1	71.6	8.5
HC79-1644	31.6	45.2	7.4	47.4	45.0	50.0	45.6	58.0	71.9	19.9
HC79-1737	31.1	44.1	13.5	47.4	37.2	54.4	44.7	55.8	64.3	19.7
LN80-8184	34.7	46.2	18.7	52.9	46.4	38.2	41.1	63.5	81.7	31.4
LS78W-110	26.8	35.8	24.6	52.4	44.0	39.4	45.0	51.0	59.4	31.2
Md79-5043	29.6	48.2	21.2	57.0	35.1	44.7	41.6	60.8	75.6	22.9
Md80-1L2-1	31.0	37.8	25.0	52.6	41.3	44.6	34.5	58.4	74.6	21.2
V80-174B	31.3	41.5	11.0	48.4	47.4	39.3	44.7	55.4	72.9	33.3
C.V. (%)	13.5	--	2.4	0.7	22.0	5.6	4.2	9.2	9.2	18.7
L.S.D.	NS	--	6.5	6.3	13.0	5.1	4.1	2.2	10.7	6.8
Row sp. (in.)	30	30	30	30	30	30	30	30	24	40
Rows/plot	4	4	4	4	4	4	4	4	4	4
Reps	3	3	3	3	4	3	3	3	3	3

UNIFORM TEST IV, 1984

YIELD RANK

Strain		Belleville, IL	Carbondale, IL	Eldorado, IL	Greenfield, IN	Lafayette, IN	Sullivan, IN	Manhattan, KS	Topeka, KS
Douglas	12	18	21		11	13	10	20	10
Franklin	22	22	22		10	22	15	22	12
Pixie	9	6	16		17	15	8	2	22
Sparks (IV)	19	21	14		8	15	6	17	6
Union	5	19	19		7	20	2	5	1
Williams 82 (III)	9	10	17		4	10	16	10	5
C-Union BC	4	12	12		2	4	5	3	3
C1635	3	11	15		6	1	3	13	11
HC77-2204	6	4	1		13	8	18	6	8
HC78-1093	11	9	8		20	7	12	8	19
HC78-1119	7	3	13		12	17	14	7	16
HC78-1279	21	12	9		19	14	22	11	20
HC78-2509	17	14	4		22	9	21	4	9
HC78-2510	20	16	11		21	12	19	9	18
HC78-2836	16	17	18		9	5	20	1	21
HC79-1644	12	2	3		18	11	16	15	14
HC79-1737	15	7	10		16	19	17	12	15
LN80-8184	2	20	6		3	17	7	14	3
LS78W-110	18	15	20		15	21	4	21	13
Md79-5043	1	8	5		1	3	1	16	2
Md80-1L2-1	8	5	7		5	2	8	18	7
V80-174B	14	1	2		14	6	13	19	17

UNIFORM TEST IV, 1984

YIELD RANK

Strain	Lexington, KY	Queenstown, MD	Portageville, MO Clay	Portageville, MO Loam	Columbia, MO	Adelphia, NJ	Ripley, OH	S. Charleston, OH	Landisville, PA	Lubbock, TX
Douglas	10	19	8	6	11	18	8	5	6	1
Franklin	22	22	10	13	20	22	19	21	20	18
Pixie	11	3	16	22	2	3	7	6	15	17
Sparks (IV)	9	13	12	20	21	15	13	10	22	7
Union	7	16	4	5	14	14	9	3	2	9
Williams 82 (III)	18	11	5	2	18	16	21	9	13	15
C-Union BC	3	14	3	3	16	17	14	1	10	8
C1635	1	5	7	4	15	10	18	4	3	6
HC77-2204	17	18	14	11	12	9	5	7	7	3
HC78-1093	8	8	9	19	1	5	10	17	18	11
HC78-1119	4	10	13	10	3	2	16	12	16	16
HC78-1279	5	9	20	21	7	6	6	20	17	21
HC78-2509	5	4	20	17	7	8	15	11	4	20
HC78-2510	19	15	19	7	10	11	17	16	9	19
HC78-2836	12	1	17	18	6	1	20	14	13	22
HC79-1644	13	7	22	15	8	7	1	15	12	13
HC79-1737	15	11	15	15	17	4	3	18	19	14
LN80-8184	2	6	10	7	5	21	12	2	1	4
LS78W-110	21	21	2	11	9	19	2	22	21	5
Md79-5043	20	2	6	1	19	12	11	7	5	10
Md80-1L2-1	16	20	1	9	13	13	22	12	8	12
V80-174B	14	17	17	14	4	20	3	19	11	2

UNIFORM TEST IV, 1984

MATURITY (date)

Strain	Mean 17 Tests	Belleville, IL	Carbondale, IL	Eldorado, IL	Greenfield, IN	Lafayette, IN	Sullivan, IN	Manhattan, KS	Topeka, KS
Douglas	+5.7	+10	+6	+2	+3	+10	+4	+3	
Franklin	-0.1	0	-11	-1	0	+4	+1	-2	
Pixie	-1.6	-1	-14	-1	-2	+1	+1	+1	
Sparks (IV)	9-25.9*	9-28	10-2	9-24	10-7	9-21	9-26	9-24	
Union	-1.7	-4	-9	0	+1	+1	-1	-1	
Williams 82 (III)	-3.8	-5	-12	-3	-1	0	-2	-4	
C-Union BC	-1.6	-3	-8	0	0	+2	-1	+1	
C1635	-0.6	-2	+6	-3	+1	+3	0	0	
HC77-2204	-0.8	+1	-5	-1	+1	+4	0	-4	
HC78-1093	+1.5	+1	-3	+1	0	+4	+1	+1	
HC78-1119	+2.9	+3	+2	+6	+2	+4	+2	+3	
HC78-1279	-1.1	-2	-4	0	-3	+2	-2	-1	
HC78-2509	-1.5	-3	-9	-2	-1	+4	-2	0	
HC78-2510	-3.8	-5	-13	-4	-4	-2	-4	0	
HC78-2836	-2.2	-2	-12	0	-1	0	-1	+2	
HC79-1644	+0.4	-1	+1	+1	0	+3	0	0	
HC79-1737	+0.2	0	-3	0	0	+2	-3	+1	
LN80-8184	-0.5	-5	+1	-4	-2	0	+2	0	
LS78W-110	+4.8	+8	-10	--	+5	+11	+7	+5	
Md79-5043	+1.1	-1	-8	+1	+1	+5	+2	+1	
Md80-1L2-1	+3.5	+4	-4	+2	+3	+8	+5	+5	
V80-174B	+5.4	+9	+8	+4	+5	+11	+3	+1	
Date Planted	5-21	5-15	5-18	5-31	6-2	5-10	5-25	5-31	5-15
Days to mature	128	136	137	116	127	134	124	116	--

UNIFORM TEST IV, 1984

MATURITY (date)

Strain	Lexington, KY	Queenstown, MD	Portageville, MO Clay	Portageville, MO Loam	Columbia, MO	Adelphia, NJ	Ripley, OH	S. Charleston, OH	Landisville, PA	Lubbock, TX
Douglas	+1	+10	+1	+6	+13	+8	+6	+12	0	+2
Franklin	-1	+3	-4	-4	+3	-1	+3	+9	0	-1
Pixie	-8	0	-5	+1	+2	+7	0	+6	-12	-3
Sparks (IV)	9-18	9-28	9-19	9-14	9-22	10-14	9-18	9-25	10-10	9-20
Union	-5	-2	-5	0	0	+1	+1	+4	-2	-8
Williams 82 (III)	-8	-3	-6	-3	-2	-3	0	+1	-5	-9
C-Union BC	-5	-2	-5	-2	+2	-5	+1	+7	-2	-8
C1635	-3	0	-4	-1	+2	-6	+1	+5	-2	-7
HC77-2204	-7	-3	-6	-2	+2	-10	+8	+9	-2	+2
HC78-1093	-3	+2	+1	+2	+10	+6	+5	+6	-5	-4
HC78-1119	-1	+3	+1	+3	+9	+5	+2	+8	-2	0
HC78-1279	-8	-3	0	0	+6	-4	+1	+7	-5	-2
HC78-2509	-8	-2	-4	+1	0	-3	+3	+7	-2	-4
HC78-2510	-11	-3	-4	+1	-2	-4	+3	+2	-11	-4
HC78-2836	-11	-1	-4	+1	+4	-1	0	+3	-11	-4
HC79-1644	-7	+3	-3	+1	+8	-2	+1	+8	-2	-4
HC79-1737	-7	+2	0	+1	+8	+4	+1	+4	-2	-4
LN80-8184	-6	+3	-3	-4	+12	-5	0	+7	0	-5
LS78W-110	+2	+6	+1	+3	+4	+8	+8	+14	+2	+2
Md79-5043	-3	+4	-3	+1	+13	-3	+2	+9	+2	-4
Md80-1L2-1	+1	+11	-3	+2	+6	+5	+1	+13	+2	-1
V80-174B	0	+2	0	+5	+14	-2	+10	+14	0	+8
Date planted	5-18	6-12	5-23	5-22	5-10	5-25	5-14	5-2	5-25	5-15
Days to mature	123	108	119	115	135	142	127	146	138	128

UNIFORM TEST IV, 1984

LODGING (score)

Strain	Mean 18 Tests	Belleville, IL	Carbondale, IL	Eldorado, IL	Greenfield, IN	Lafayette, IN	Sullivan, IN	Manhattan, KS	Topeka, KS
Douglas	1.9	1.9	1.5	1.8	1.3	2.0	1.0	2.0	3.3
Franklin	2.3	2.4	2.0	2.4	2.3	2.3	1.2	2.0	3.0
Pixie	1.3	1.3	1.0	1.1	1.0	1.0	1.2	1.0	1.0
Sparks (IV)	2.3	2.7	2.5	1.9	2.8	3.0	1.7	2.0	2.3
Union	2.4	2.9	1.5	3.5	2.2	2.3	1.7	2.0	2.7
Williams 82 (III)	1.8	2.6	1.0	1.6	1.3	1.5	1.5	1.7	2.0
C-Union BC	2.3	3.1	1.5	2.7	1.5	2.2	1.7	2.7	2.3
C1635	1.5	1.3	1.0	1.2	1.3	1.0	1.0	1.3	1.7
HC77-2204	1.3	1.2	1.0	1.1	1.0	1.0	1.0	1.0	1.0
HC78-1093	1.2	1.4	1.0	1.1	1.0	1.0	1.0	1.0	1.0
HC78-1119	1.2	1.4	1.0	1.2	1.0	1.0	1.0	1.0	1.0
HC78-1279	1.1	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
HC78-2509	1.2	1.2	1.0	1.1	1.0	1.0	1.0	1.0	1.0
HC78-2510	1.2	1.2	1.0	1.1	1.0	1.0	1.0	1.0	1.0
HC78-2836	1.1	1.3	1.0	1.1	1.0	1.0	1.0	1.0	1.0
HC79-1644	1.2	1.2	1.0	1.1	1.0	1.0	1.0	1.0	1.0
HC79-1737	1.3	1.4	1.0	1.1	1.0	1.0	1.0	1.0	1.0
LN80-8184	2.0	2.1	1.0	1.4	1.2	2.0	1.3	2.0	3.0
LS78W-110	2.6	3.2	2.5	-	2.7	2.5	1.7	2.3	3.7
Md79-5043	1.9	3.0	1.5	2.1	1.5	2.2	1.3	2.0	2.0
Md80-1L2-1	2.4	2.9	2.0	3.3	2.2	3.0	1.0	3.0	4.0
V80-174B	2.0	1.6	1.0	1.7	1.8	2.0	1.0	2.0	1.0

UNIFORM TEST IV, 1984

LODGING (score)

Strain	Lexington, KY	Queenstown, MD	Portageville, MO Clay	Portageville, MO Loam	Columbia, MO	Adelphia, NJ	Ripley, OH	S. Charleston, OH	Landisville, PA	Lubbock, TX
Douglas	1.0	4.0	1.0	1.5	1.9	2.0	1.0	1.8	3.0	1.7
Franklin	3.0	4.2	1.0	1.5	3.0	2.0	1.3	2.7	2.8	2.0
Pixie	2.0	3.3	1.0	1.0	1.0	1.0	1.0	1.2	1.5	1.0
Sparks (IV)	2.0	3.7	1.5	1.5	2.1	2.6	1.0	2.7	3.3	2.0
Union	2.0	4.2	1.0	3.0	2.4	2.3	1.2	2.8	3.3	3.0
Williams 82 (III)	2.0	3.0	1.0	1.0	1.6	1.6	1.0	2.3	2.8	2.8
C-Union BC	2.0	3.5	1.0	1.5	2.8	2.0	1.2	3.0	3.3	3.0
C1635	2.0	2.2	1.0	1.0	1.5	1.6	1.0	2.0	2.8	2.3
HC77-2204	1.0	2.7	1.0	1.0	1.1	1.0	1.0	1.3	3.2	1.0
HC78-1093	2.0	2.8	1.0	1.0	1.1	1.0	1.0	1.2	1.5	1.0
HC78-1119	2.0	2.5	1.0	1.0	1.1	1.0	1.0	1.3	1.5	1.0
HC78-1279	2.0	1.8	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.0
HC78-2509	1.0	2.5	1.0	1.0	1.0	1.0	1.0	1.0	2.2	1.0
HC78-2510	2.0	2.3	1.0	1.0	1.0	1.0	1.0	1.2	2.3	1.0
HC78-2836	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.0
HC79-1644	2.0	2.3	1.0	1.0	1.0	1.0	1.0	1.3	1.5	1.0
HC79-1737	2.0	2.7	1.0	1.0	1.1	1.0	1.0	1.5	1.5	1.3
LN80-8184	2.0	2.8	1.0	1.0	2.8	2.0	1.0	2.7	3.5	2.8
LS78W-110	2.0	3.7	1.5	2.5	3.0	2.0	2.5	3.7	3.2	2.0
Md79-5043	1.0	2.0	1.0	1.5	3.0	1.6	1.0	2.5	3.2	2.3
Md80-1L2-1	3.0	3.5	1.0	1.5	1.9	1.6	1.0	2.7	3.5	2.5
V80-174B	2.0	2.7	1.0	1.0	3.5	2.6	2.2	2.3	4.0	2.2

UNIFORM TEST IV, 1984

PLANT HEIGHT (inches)

Strain	Mean 18 Tests	Belleville, IL	Carbondale, IL	Eldorado, IL	Greenfield, IN	Lafayette, IN	Sullivan, IN	Manhattan, KS	Topeka, KS
Douglas	38	40	33	50	35	44	42	40	43
Franklin	43	45	42	51	44	46	35	44	45
Pixie	21	21	20	20	17	20	37	20	18
Sparks (IV)	41	42	35	51	42	44	48	42	40
Union	43	44	40	51	40	46	49	45	49
Williams 82 (III)	39	42	34	48	37	45	46	41	46
C-Union BC	41	41	38	48	38	45	47	43	45
C1635	37	37	31	46	33	43	35	37	42
HC77-2204	23	22	22	25	25	26	19	24	20
HC78-1093	19	19	17	18	16	22	16	20	17
HC78-1119	20	20	18	19	19	21	16	20	20
HC78-1279	20	25	17	18	18	23	13	22	18
HC78-2509	21	20	21	20	17	22	15	22	19
HC78-2510	20	20	20	19	14	22	15	22	17
HC78-2836	19	19	18	19	19	21	15	20	16
HC79-1644	20	19	17	19	18	22	15	20	18
HC79-1737	20	19	19	19	17	23	19	20	19
LN80-8184	36	33	30	44	33	41	41	37	44
LS78W-110	44	49	42	--	42	49	47	41	44
Md79-5043	40	40	36	48	36	46	47	42	46
Md80-1L2-1	45	52	46	52	46	50	37	47	52
V80-174B	27	23	23	27	27	33	30	27	19

UNIFORM TEST IV, 1984

PLANT HEIGHT (Inches)

Strain	Lexington, KY	Queenstown, MD	Portageville, MO Clay	Portage, ville, MO Loam	Columbia, MO	Adelphia, NJ	Ripley, OH	S. Charleston, OH	Landisville, PA	Lubbock, TX
Douglas	40	41	21	42	44	41	34	37	35	29
Franklin	41	44	37	48	50	45	40	41	46	29
Pixie	23	20	13	18	20	25	21	23	23	12
Sparks (IV)	45	45	33	36	37	42	39	42	44	28
Union	39	44	40	44	44	44	41	42	48	31
Williams 82 (III)	33	39	35	44	40	40	35	39	39	25
C-Union BC	39	39	36	43	44	41	36	42	40	28
C1635	36	39	30	37	39	40	34	39	38	25
HC77-2204	26	27	17	18	21	28	25	28	30	17
HC78-1093	23	21	14	22	20	24	20	20	23	14
HC78-1119	23	21	13	19	21	25	21	25	24	13
HC78-1279	23	23	13	18	21	26	21	21	22	12
HC78-2509	24	26	13	22	23	27	21	23	28	11
HC78-2510	23	25	11	17	23	27	20	24	26	12
HC78-2836	23	22	14	23	22	26	19	20	22	11
HC79-1644	25	22	13	19	21	24	21	22	26	12
HC79-1737	24	20	12	18	21	23	22	19	24	13
LN80-8184	33	38	26	36	50	34	29	38	37	27
LS78W-110	44	49	38	49	41	42	45	43	51	33
Md79-5043	35	38	34	44	42	40	36	40	38	30
Md80-1L2-1	45	48	38	48	39	46	39	45	50	32
V80-174B	29	28	13	18	52	31	31	27	33	19

UNIFORM TEST IV, 1984

SEED QUALITY (score)

Strain	Mean 18 Tests	Belleville, IL	Carbondale, IL	Eldorado, IL	Greenfield, IN	Lafayette, IN	Sullivan, IN	Manhattan, KS	Topeka, KS
Douglas	2.6	4.0	4.0	3.2	1.0	2.0	2.5	2.0	3.0
Franklin	2.4	3.8	3.0	2.8	1.5	1.5	2.5	3.0	3.0
Pixie	1.8	3.2	3.0	1.7	1.0	1.5	1.0	1.5	2.0
Sparks (IV)	2.2	3.8	3.0	3.0	1.5	2.0	2.0	3.0	2.0
Union	2.0	3.2	4.0	2.2	1.0	2.0	1.5	2.0	2.0
Williams 82 (III)	1.9	3.7	4.0	2.2	1.0	1.5	1.0	2.0	2.0
C-Union BC	1.9	3.7	3.0	2.7	1.0	1.5	1.5	1.5	2.0
C1635	2.1	4.0	4.0	2.5	1.0	1.5	2.0	2.0	2.0
HC77-2204	1.7	2.8	2.0	1.3	1.0	1.0	1.5	1.5	2.0
HC78-1093	1.8	3.3	3.0	2.0	1.0	1.5	1.5	1.5	1.0
HC78-1119	1.9	3.0	2.0	2.0	1.0	1.5	1.5	2.0	2.0
HC78-1279	1.9	3.5	5.0	1.8	1.0	2.0	1.5	1.5	2.0
HC78-2509	1.9	3.8	2.0	2.2	1.5	1.5	1.0	2.0	2.0
HC78-2510	2.0	4.0	4.0	2.2	1.0	1.5	1.5	1.5	2.0
HC78-2836	2.2	4.0	5.0	2.3	1.0	2.0	2.0	2.0	1.0
HC79-1644	1.7	3.0	3.0	2.0	1.0	1.5	1.0	1.0	1.0
HC79-1737	1.8	3.0	3.0	2.0	1.0	1.5	1.5	1.5	2.0
LN80-8184	2.1	3.8	3.0	2.8	1.0	2.0	1.5	2.0	2.0
LS78W-110	2.1	3.7	3.0	-	1.5	1.5	1.0	2.5	2.0
Md79-5043	1.8	3.3	2.0	2.3	1.0	1.5	1.5	1.5	2.0
Md80-1L2-1	2.2	3.3	2.0	2.7	1.0	1.5	1.5	1.5	3.0
V80-174B	1.9	2.3	4.0	2.3	1.0	1.5	1.5	1.5	1.0

UNIFORM TEST IV, 1984

SEED QUALITY (score)

Strain	Lexington, KY	Queenstown, MD	Portageville, MO Clay	Portage, ville, MO Loam	Columbia, MO	Adelphia, NJ	Ripley, OH	S. Charleston, OH	Landisville, PA	Lubbock, TX
Douglas	2.0	3.8	3.0	3.0	2.0	2.0	2.0	2.0	2.0	3.7
Franklin	1.0	3.0	3.0	2.5	2.0	1.6	2.0	1.5	2.0	3.5
Pixie	1.0	2.2	2.5	2.0	1.0	1.0	1.0	1.0	2.5	3.2
Sparks (IV)	1.0	2.7	3.0	2.0	1.0	1.6	1.5	1.5	2.0	3.7
Union	1.0	2.3	2.5	2.5	1.0	1.0	1.0	1.5	2.0	3.0
Williams 82 (III)	1.0	1.8	2.5	2.0	1.0	1.3	1.5	1.5	1.5	3.5
C-Union BC	1.0	2.2	2.5	2.0	1.0	1.0	1.0	1.5	2.0	3.5
C1635	1.0	2.5	2.5	2.5	1.0	1.3	1.5	1.5	2.0	3.2
HC77-2204	2.0	1.8	2.5	2.0	1.0	1.0	1.0	1.0	2.0	2.5
HC78-1093	1.0	2.2	2.5	2.5	1.0	1.0	1.0	1.0	2.0	3.0
HC78-1119	2.0	1.8	2.5	2.5	1.0	1.0	1.0	1.5	2.0	3.2
HC78-1279	1.0	2.2	2.5	2.0	1.0	1.0	1.0	1.0	2.0	3.0
HC78-2509	1.0	2.0	2.5	2.5	2.0	1.0	1.5	1.0	2.0	3.0
HC78-2510	1.0	2.0	2.5	2.5	2.0	1.3	1.0	1.0	2.0	2.5
HC78-2836	1.0	2.7	2.5	3.5	2.0	1.0	1.5	1.0	2.0	3.2
HC79-1644	1.0	2.0	3.0	2.5	1.0	1.0	1.0	1.0	2.5	2.7
HC79-1737	1.0	2.0	2.5	2.5	1.0	1.0	1.0	1.0	2.0	3.5
LN80-8184	1.0	2.3	3.0	2.5	1.0	1.3	1.5	1.5	2.0	3.0
LS78W-110	1.0	2.2	3.0	2.5	1.0	1.3	2.0	1.5	2.5	2.7
Md79-5043	1.0	1.8	2.5	2.5	1.0	1.0	1.0	1.5	2.0	2.5
Md80-1L2-1	1.0	2.8	2.5	2.5	3.0	1.3	1.0	1.5	2.5	4.7
V80-174B	1.0	2.2	3.5	2.5	1.0	1.0	1.5	1.5	2.5	2.0

UNIFORM TEST IV, 1984

SEED SIZE (g/100)

Strain	Mean 16 Tests	Belleville, IL	Carbondale, IL	Eldorado, IL	Greenfield, IN	Lafayette, IN	Sullivan, IN	Manhattan, KS	Topeka, KS
Douglas	18.2	18.7	20.4	15.8	18.9	19.2	17.3	15.5	17.7
Franklin	15.3	15.9	16.4	13.7	16.4	14.7	14.6	12.0	14.9
Pixie	17.0	16.0	19.7	16.4	16.8	15.7	16.1	15.4	17.5
Sparks (IV)	16.6	17.3	18.6	13.4	18.1	16.4	14.7	14.1	16.3
Union	18.7	18.7	19.4	17.6	20.3	19.5	18.5	16.0	18.2
Williams 82 (III)	16.9	16.6	18.8	16.0	17.8	17.6	15.4	13.7	16.8
C-Union BC	17.5	17.7	18.8	15.9	18.3	17.9	16.7	14.9	18.3
C1635	18.4	18.5	21.9	17.0	20.1	19.9	17.4	15.4	17.0
HC77-2204	13.7	14.2	16.5	12.2	13.3	13.8	12.9	10.6	13.4
HC78-1093	18.3	18.1	20.0	17.8	19.2	18.8	18.2	15.1	19.7
HC78-1119	18.8	17.8	21.4	18.2	19.5	18.9	19.1	16.6	18.7
HC78-1279	16.0	15.6	17.8	15.7	18.0	15.2	15.6	14.6	16.0
HC78-2509	16.4	16.1	19.1	16.9	17.4	15.9	16.4	13.4	16.7
HC78-2510	16.0	16.1	19.1	15.7	16.7	15.6	15.0	13.7	15.7
HC78-2836	17.6	17.8	18.1	18.4	18.0	17.9	16.7	15.9	17.4
HC79-1644	16.5	16.0	20.2	16.5	16.5	15.3	15.5	13.5	17.3
HC79-1737	18.4	18.1	21.9	16.6	19.4	17.1	16.4	16.1	18.4
LN80-8184	16.4	16.6	19.4	13.7	17.8	17.1	15.3	13.6	16.7
LS78W-110	14.5	15.1	15.8	--	15.1	15.4	13.9	11.2	14.4
Md79-5043	17.2	16.7	18.1	16.8	17.7	19.5	15.8	13.7	17.6
Md80-1L2-1	15.3	16.4	17.0	13.5	15.9	15.3	14.5	12.1	16.0
V80-174B	14.3	14.1	16.9	16.1	13.8	13.3	12.6	11.0	14.6

UNIFORM TEST IV, 1984

SEED SIZE (g/100)

Strain	Lexington, KY	Queenstown, MD	Portageville, MO Clay	Portage, ville, MO Loam	Columbia, MO	Adelphia, NJ	Ripley, OH	S. Charleston, OH	Landisville, PA	Lubbock, TX
Douglas	15.9	18.4		16.7	18.5		17.2	17.8	21.3	21.7
Franklin	13.5	15.3		15.2	15.8		13.9	15.2	19.0	17.9
Pixie	13.2	16.1		17.3	18.7		15.8	15.7	19.8	21.3
Sparks (IV)	15.4	16.3		14.8	17.1		15.5	18.2	19.6	19.7
Union	15.4	18.1		19.4	19.1		16.5	19.5	23.0	20.5
Williams 82 (III)	14.6	16.8		16.9	17.0		15.0	16.6	21.1	20.1
C-Union BC	14.3	17.7		16.8	17.2		15.2	17.7	21.6	21.1
C1635	15.0	17.7		18.5	17.9		15.9	18.3	22.6	21.8
HC77-2204	10.2	12.5		15.0	15.4		13.3	13.4	15.5	16.6
HC78-1093	16.1	17.3		18.5	20.3		16.0	17.7	19.1	21.3
HC78-1119	15.3	18.1		20.0	20.4		16.8	17.8	20.8	21.3
HC78-1279	11.8	14.0		15.8	17.7		14.0	14.9	19.0	19.7
HC78-2509	12.3	14.7		17.4	17.7		14.5	15.8	19.0	19.6
HC78-2510	12.2	14.4		18.1	17.2		14.5	14.8	18.3	19.1
HC78-2836	13.4	16.2		19.7	18.7		15.5	16.9	19.0	21.6
HC79-1644	13.5	15.5		16.9	18.0		14.6	15.3	19.7	19.7
HC79-1737	15.3	17.3		18.5	22.5		15.9	16.7	21.8	23.1
LN80-8184	13.4	15.6		16.1	16.1		15.0	16.8	19.3	20.3
LS78W-110	12.4	15.2		14.2	14.9		13.8	14.3	16.5	15.9
Md79-5043	12.9	17.7		17.3	16.8		14.7	17.7	21.6	20.3
Md80-1L2-1	14.3	15.2		15.0	15.2		12.4	16.5	17.9	18.0
V80-174B	11.1	12.8		15.1	17.3		13.6	14.1	15.5	16.3

UNIFORM TEST IV, 1984

Strain	PROTEIN (%) Mean 2 Tests	PROTEIN (%) Lafayette, IN	PROTEIN (%) Manhattan, KS	OIL (%) Mean 2 Tests	OIL (%) Lafayette, IN	OIL (%) Manhattan, KS
Douglas	40.0	40.6	39.3	21.8	21.8	21.7
Franklin	36.3	36.8	35.8	22.3	22.3	22.2
Pixie	40.4	41.7	39.0	22.0	21.6	22.4
Sparks (IV)	38.5	39.3	37.7	22.1	21.5	22.6
Union	40.1	40.5	39.7	21.9	21.9	21.9
Williams 82 (III)	40.3	40.6	39.9	22.1	22.0	22.2
C-Union BC	40.2	41.1	39.3	22.1	21.8	22.3
C1635	41.7	42.6	40.7	21.1	20.3	21.9
HC77-2204	37.8	38.5	37.0	22.1	22.2	21.9
HC78-1093	42.2	42.7	41.6	21.7	21.6	21.8
HC78-1119	42.5	43.9	41.1	21.4	21.1	21.7
HC78-1279	40.1	41.5	38.6	22.4	22.0	22.8
HC78-2509	38.3	38.7	37.8	24.0	23.8	24.1
HC78-2510	37.6	38.3	36.8	24.2	23.6	24.8
HC78-2836	40.7	42.2	39.2	22.5	22.1	22.8
HC79-1644	38.7	39.4	38.0	23.4	23.3	23.4
HC79-1737	42.3	43.3	41.3	21.1	20.9	21.3
LN80-8184	39.7	41.3	38.1	21.6	21.5	21.6
LS78W-110	38.2	38.9	37.4	21.8	21.6	21.9
Md79-5043	41.2	42.6	39.7	20.7	20.5	20.9
Md80-1L2-1	39.2	40.6	37.7	21.9	21.7	22.1
V80-174B	37.1	38.1	36.0	23.0	22.5	23.5

PRELIMINARY TEST IVA, 1984

	Strain	Parentage	Generation Composited	Descriptive Code
1.	Franklin	L12 x Custer	F_3	PGB DYIb I
2.	Sparks (IV)	Williams x Calland	F_6	WTT SYBI I
3.	Williams 82 (III)	Williams x Kingwa	$4BC_6F_3$	WTT SYBI I
4.	C1641	Hodgson x Union	F_5	PGT SYBf I
5.	C1642	Hodgson x Union	F_5	P+WTT+BDYBI I
6.	C1645	Union x Weber	F_5	WTB DYBI I
7.	C1653	A75-305022 x Century	F_5	WTB IYBr I
8.	C1654	A76-304020 x Century	F_6	PTB SYBI I
9.	C1656	Hobbit x Century	F_6	PTT SYBI I
10.	C1657	Hobbit x Century	F_6	PTB SYBI I
11.	C1659	Nebsoy x A76-304020	F_4	WGB SYBf I
12.	LN80-15170	K1034 x Essex	F_4	WTT DYBI I
13.	LN80-15885	Union x C1520	F_4	WTT SYBI I
14.	LN80-16017	Tracy x Williams	F_4	WTT DYBI I
15.	LN81-2686	BSR 301 x Pella	F_4	PTT IYBI I
16.	LN81-2934	K1030 x Pella	F_4	WTT IYBI I
17.	LS80-6358	L73-6356 x Pixie	F_5	PTT DYBI I+D
18.	LS80-6521	L73-6356 x Pixie	F_5	PTT IYBI I
19.	LS81-25	Forrest x Woodworth	F_6	WTT DYBI I
20.	Md81-AIC2-48	BSR 301 x Essex	F_5	PTB DYBI I
21.	Md81-5123	DeSoto x A75-302003	F_5	PTB DYBI I
22.	Md81-5129	DeSoto x A75-302003	F_5	PTB IYBI I
23.	S82-1104	L75-8064 x Essex	F_5	PGB SYBf I
24.	S82-1174	L75-8064 x Essex	F_5	WGT SYBf I
25.	V81-1185	Bay x SRF 400	F_5	PTT SYBI I

PRELIMINARY TEST IVA, 1984

Descriptive and Other Data		Disease Data							
		FE	PR			PS	PSB	SMV	GERM
	Shattering Score	Lafayette	Ames	Lafayette	Vickery	Lafayette			
Strain	Manhattan	Race 2 Score	Race 4 Reaction	Race 1 Reaction	Tolerance Score	a %	n %	a Score	%
Franklin	1.0	5	S	R	3.9	26	3	5M	89
Sparks (IV)	-	5	S	R	3.0	32	23	5E	71
Williams 82 (III)	1.0	2	R	R	2.3	49	27	4E	73
C1641	1.0	5	S	R	2.9	57	20	1	60
C1642	1.0	4	S	H	4.0	30	22	5E	50
C1645	1.0	5	S	S	3.6	49	37	4E	40
C1653	1.0	5	S	S	3.5	57	19	3E	71
C1654	1.0	3	S	R	3.3	70	10	5E	55
C1656	1.0	5	S	R	3.3	85	21	3E	58
C1657	-	4	S	R	2.9	61	26	4E	55
C1659	1.0	2	S	S	3.5	38	13	3M	70
LN80-15170	2.0	4	S	R	2.9	38	26	3E	46
LN80-15885	1.0	4	S	R	3.3	46	30	4E	44
LN80-16017	1.0	4	R	R	3.3	31	29	4E	37
LN81-2686	1.0	4	S	R	3.5	53	39	4E	27
LN81-2934	1.0	5	S	R	3.9	48	21	4E	54
LS80-6358	1.0	1	S	S	3.0	23	9	5E	68
LS80-6521	-	1	S	S	3.6	13	14	5E	69
LS81-25	2.0	5	S	S	3.8	25	32	5M	44
Md81-AIC2-48	1.0	2	S	S	4.8	28	22	4E	55
Md81-5123	1.0	1	S	R	3.3	30	11	5E	72
Md81-5129	1.0	1	S	R	3.3	15	7	5E	80
S82-1104	1.0	5	S	R	3.4	46	16	5E	78
S82-1174	1.0	5	S	R	4.5	27	27	5E	59
V81-1185	-	5	S	S	5.0	33	25	5E	34

PRELIMINARY TEST IVA, 1984

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	7 bu/a	7 No.	7 Date	7 Score	7 In.	7 Score	7 g/100	2 %	2 %
Franklin	31.4	24	-1.0	2.2	44	1.9	13.7	36.1	22.1
Sparks (IV)	42.9	3	9-24.4*	2.4	42	2.0	15.9	39.0	21.8
Williams 82 (III)	42.5	6	-3.9	1.9	41	1.5	15.6	40.4	21.7
C1641	41.0	11	-6.4	1.5	40	1.8	15.7	37.9	22.2
C1642	39.9	16	+0.3	2.1	42	1.7	13.7	38.5	22.5
C1645	42.3	7	-1.3	1.9	41	1.7	13.7	40.8	20.8
C1653	46.1	1	+2.4	1.4	38	1.7	16.9	39.3	21.7
C1654	40.3	13	-3.6	2.1	39	2.2	16.3	42.4	20.0
C1656	39.2	17	-5.9	1.7	34	2.0	15.9	38.5	23.2
C1657	42.8	4	+0.7	1.7	41	1.8	15.2	40.7	20.5
C1659	42.0	8	+1.4	1.8	41	1.7	13.8	38.4	21.6
LN80-15170	40.8	12	-0.3	1.8	34	2.0	16.4	41.9	20.3
LN80-15885	40.2	15	-6.0	1.7	39	1.5	16.1	40.1	21.4
LN80-16017	45.7	2	-5.1	1.8	35	1.4	18.4	41.8	19.9
LN81-2686	42.6	5	-6.1	2.2	42	1.9	17.0	37.1	23.1
LN81-2934	41.7	9	-2.1	1.5	38	1.9	18.1	38.5	22.2
LS80-6358	37.3	20	+9.7	2.0	48	1.7	15.2	39.6	20.8
LS80-6521	39.2	17	+5.8	1.6	41	1.5	14.3	37.6	22.0
LS81-25	36.8	21	+3.9	1.9	42	1.4	11.8	37.7	21.7
Md81-AIC2-48	35.4	23	-2.7	1.5	34	1.6	14.2	38.8	21.9
Md81-5123	38.7	19	+0.9	1.9	43	1.8	15.2	39.2	20.7
Md81-5129	40.3	13	+6.2	2.2	45	1.8	15.1	39.5	20.9
S82-1104	35.9	22	+12.5	2.0	45	2.0	11.5	39.1	20.5
S82-1174	31.4	24	+10.7	2.2	46	1.9	14.5	40.6	20.1
V81-1185	41.1	10	+2.3	2.3	42	1.6	14.9	38.8	20.9

*126 days after planting.

Two strains, C1653 and LN80-16017 exceeded the yield of the cultivar Sparks. LN80-16017 was resistant to PR races 1 and 4 while C1653 was resistant only to race 1. The three LS strains were all resistant to race 3 of the SCN and all were superior in yield to the SCN resistant Franklin.

PRELIMINARY TEST IVA, 1984

YIELD (bu/a)

Strain	Mean 7 Tests	Carbondale, IL	Sullivan, IN	Manhattan, KS	Lexington, KY	Queenstown, MD	Ripley, OH	S. Charleston, OH
Franklin	31.4	23.4	24.9	29.7	25.9	29.0	35.4	51.6
Sparks (IV)	42.9	38.1	50.0	53.8	24.1	38.5	38.1	57.4
Williams 82 (III)	42.5	34.7	50.2	53.1	28.8	38.6	32.2	60.0
C1641	41.0	37.8	34.8	48.7	32.2	40.7	39.7	52.9
C1642	39.9	48.7	26.0	41.7	25.5	39.4	38.1	59.7
C1645	42.3	29.1	46.0	51.6	30.6	42.8	34.6	61.7
C1653	46.1	50.6	36.0	46.6	34.6	52.3	36.7	65.7
C1654	40.3	39.7	37.3	45.7	26.1	44.8	33.3	55.4
C1656	39.2	36.3	16.9	52.0	27.3	49.1	31.1	61.8
C1657	42.8	47.6	38.4	49.2	30.3	44.1	31.5	58.6
C1659	42.0	44.2	35.5	42.3	36.0	43.5	34.3	58.5
LN80-15170	40.8	24.9	45.7	49.7	27.6	43.8	33.6	60.0
LN80-15885	40.2	38.4	27.4	45.9	32.1	43.6	35.6	58.4
LN80-16017	45.7	44.5	51.2	53.2	35.8	45.6	31.2	58.7
LN81-2686	42.6	39.8	50.2	46.6	26.8	41.0	36.2	57.5
LN81-2934	41.7	46.0	31.5	39.8	35.2	40.5	36.4	62.8
LS80-6358	37.3	41.6	35.9	32.0	30.0	35.7	34.9	50.8
LS80-6521	39.2	34.7	47.3	41.1	28.1	37.1	34.4	51.7
LS81-25	36.8	42.2	28.3	27.9	31.4	36.0	36.1	55.5
Md81-AIC2-48	35.4	35.3	16.4	51.0	33.3	46.8	34.6	60.6
Md81-5123	38.7	32.5	42.6	38.3	28.5	38.2	34.1	57.0
Md81-5129	40.3	37.3	46.3	37.4	25.0	42.3	38.6	55.3
S82-1104	35.9	43.4	33.5	27.9	26.6	36.7	39.2	44.0
S82-1174	31.4	38.4	23.3	23.5	24.7	34.5	33.7	41.4
V81-1185	41.1	43.7	26.5	43.6	34.2	39.1	41.6	59.1
C.V. (%)		10.9	17.5	5.7	13.1	8.4	10.5	5.9
L.S.D. (5%)		8.8	11.7	5.1	10.9	7.1	7.7	7.0
Row sp. (In.)		30	28	30	30	30	30	30
Rows/plot		4	3	4	4	4	4	4
Reps		2	2	2	2	2	2	2

PRELIMINARY TEST IVA, 1984

YIELD RANK

Strain	Mean 7 Tests	Carbondale, IL	Sullivan, IN	Manhattan, KS	Lexington, KY	Queenstown, MD	Ripley, OH	S. Charleston, OH
Franklin	24	25	22	22	21	25	12	22
Sparks (IV)	3	15	4	1	25	18	5	15
Williams 82 (III)	6	20	2	3	13	17	22	6
C1641	11	16	15	9	7	13	2	20
C1642	16	2	21	16	22	15	5	8
C1645	7	23	7	5	10	10	14	4
C1653	1	1	12	10	4	1	7	1
C1654	13	12	11	13	20	5	21	18
C1656	17	18	24	4	17	2	25	3
C1657	4	3	10	8	11	6	23	11
C1659	8	6	14	15	1	9	17	12
LN80-15170	12	24	8	7	16	7	20	6
LN80-15885	15	13	19	12	8	8	11	13
LN80-16017	2	5	1	2	2	4	24	10
LN81-2686	5	11	2	10	18	12	9	14
LN81-2934	9	4	17	18	3	14	8	2
LS80-6358	20	10	13	21	12	23	13	23
LS80-6521	17	20	5	17	15	20	16	21
LS81-25	21	9	18	23	9	22	10	17
Md81-AIC2-48	23	19	25	6	6	3	14	5
Md81-5123	19	22	9	19	14	19	18	16
Md81-5129	13	17	6	20	23	11	4	19
S82-1104	22	8	16	23	19	21	3	24
S82-1174	24	13	23	25	24	24	19	25
V81-1185	10	7	20	14	5	16	1	9

PRELIMINARY TEST IVA, 1984

MATURITY (date)

Strain	Mean 7 Tests	Carbondale, IL	Sullivan, IN	Manhattan, KS	Lexington, KY	Queenstown, MD	Ripley, OH	S. Charleston, OH
Franklin	-1.0	-5	-3	-4	+3	-1	+1	+2
Sparks (IV)	9-24.4	9-28	9-29	10-2	9-10	9-27	9-20	9-25
Williams 82 (III)	-3.9	-11	-5	-6	-2	-2	-1	0
C1641	-6.4	-11	-13	-8	-7	-2	-1	-3
C1642	+0.3	0	-5	-1	-2	+4	+1	+5
C1645	-1.3	0	-7	-1	-2	0	-1	+2
C1653	+2.4	+7	-3	0	+2	+7	+1	+3
C1654	-3.6	-9	-8	-7	-2	+1	-1	+1
C1656	-5.9	-8	-14	-7	-7	-2	-4	+1
C1657	+0.7	+3	-3	-3	+2	+3	+1	+2
C1659	+1.4	-5	0	-3	+1	+4	+2	+11
LN80-15170	-0.3	-3	0	-2	0	+4	-2	+1
LN80-15885	-6.0	-12	-11	-7	-4	-2	-4	-2
LN80-16017	-5.1	-11	-6	-7	-2	-2	-4	-4
LN81-2686	-6.1	-11	-9	-7	-7	-2	-4	-3
LN81-2934	-2.1	-3	-5	-6	0	-2	+1	0
LS80-6358	+9.7	+7	+8	F*	+14	+12	+2	+15
LS80-6521	+5.8	-2	+6	F*	+7	+9	+2	+13
LS81-25	+3.9	-3	+4	0	+4	+5	+6	+11
Md81-AIC2-48	-2.7	-5	-5	-5	-2	+1	0	-3
Md81-5123	+0.9	-2	-2	-3	+4	+2	+1	+6
Md81-5129	+6.2	+3	+4	F*	+7	+9	+2	+12
S82-1104	+12.5	+13	+10	F*	+15	+13	+9	+15
S82-1174	+10.7	+7	+8	F*	+10	+16	+8	+15
V81-1185	+2.3	-6	-1	-1	+7	+5	0	+12
Date planted	5-20	5-18	5-25	5-31	5-18	6-12	5-14	5-2
Days to mature	126	133	127	124	115	107	129	146

*Data not included in mean.

PRELIMINARY TEST IVA, 1984

LODGING (score)

Strain	Mean 7 Tests	Carbondale, IL	Sullivan, IN	Manhattan, KS	Lexington, KY	Queenstown, MD	Ripley, OH	S. Charleston, OH
Franklin	2.2	2.0	1.0	2.0	3.0	4.0	1.3	2.3
Sparks (IV)	2.4	2.5	1.8	3.0	2.0	4.0	1.0	2.8
Williams 82 (III)	1.9	1.5	1.8	2.0	2.0	2.8	1.0	2.0
C1641	1.5	1.0	1.0	1.5	2.0	2.8	1.0	1.0
C1642	2.1	1.0	1.3	2.5	3.0	3.5	1.0	2.3
C1645	1.9	1.0	1.0	3.0	2.0	4.0	1.0	1.5
C1653	1.4	1.0	1.0	2.0	1.0	2.8	1.0	1.0
C1654	2.1	2.5	1.3	2.5	2.0	3.3	1.0	2.3
C1656	1.7	1.0	1.0	2.0	1.0	4.0	1.0	1.8
C1657	1.7	1.0	1.3	2.0	2.0	3.0	1.0	1.5
C1659	1.8	1.0	1.0	2.0	2.0	3.8	1.0	1.8
LN80-15170	1.8	1.0	1.8	2.0	2.0	3.0	1.0	1.8
LN80-15885	1.7	1.5	1.0	1.5	2.0	2.8	1.0	1.8
LN80-16017	1.8	2.0	1.8	1.5	2.0	2.8	1.0	1.3
LN81-2686	2.2	2.0	1.3	2.5	2.0	4.0	1.0	2.3
LN81-2934	1.5	1.0	1.0	1.0	2.0	3.3	1.0	1.3
LS80-6358	2.0	1.0	1.8	2.5	2.0	3.8	1.0	2.0
LS80-6521	1.6	1.0	1.0	2.0	2.0	1.8	1.0	2.3
LS81-25	1.9	2.0	1.5	2.0	2.0	2.8	1.0	2.3
Md81-AIC2-48	1.5	1.5	1.0	1.5	2.0	2.0	1.0	1.3
Md81-5123	1.9	1.0	1.0	2.0	2.0	3.5	1.0	2.8
Md81-5129	2.2	2.5	1.5	2.0	2.0	3.0	1.0	3.3
S82-1104	2.0	2.0	1.0	2.0	2.0	3.0	1.3	2.8
S82-1174	2.2	2.0	1.5	2.0	2.0	3.8	1.3	2.5
V81-1185	2.3	2.0	1.5	2.0	2.0	4.5	1.0	3.3

PRELIMINARY TEST IVA, 1984

PLANT HEIGHT (inches)

Strain	Mean 7 Tests	Carbondale, IL	Sullivan, IN	Manhattan, KS	Lexington, KY	Queenstown, MD	Ripley, OH	S. Charleston, OH
Franklin	44	48	39	47	46	44	39	43
Sparks (IV)	42	44	47	43	41	46	37	39
Williams 82 (III)	41	42	46	46	39	41	33	40
C1641	40	40	37	41	45	39	35	39
C1642	42	40	39	43	45	43	39	43
C1645	41	45	45	43	44	36	30	41
C1653	38	38	39	42	34	42	33	38
C1654	39	38	37	41	38	43	35	39
C1656	34	34	39	35	31	37	24	37
C1657	41	37	43	46	40	43	37	41
C1659	41	38	43	48	40	40	32	44
LN80-15170	34	34	36	33	33	33	29	35
LN80-15885	39	37	42	43	43	40	32	39
LN80-16017	35	33	41	37	34	35	30	34
LN81-2686	42	43	48	45	39	44	34	40
LN81-2934	38	44	36	38	40	41	29	38
LS80-6358	48	48	52	51	51	49	43	44
LS80-6521	41	40	43	44	42	40	38	41
LS81-25	42	46	42	40	42	40	41	43
Md81-AIC2-48	34	32	33	39	37	36	34	36
Md81-5123	43	40	48	46	47	41	38	43
Md81-5129	45	45	47	45	47	46	42	44
S82-1104	45	47	42	48	44	45	45	46
S82-1174	46	45	50	46	44	44	43	44
V81-1185	42	41	41	47	46	43	38	42

PRELIMINARY TEST IVA, 1984

SEED QUALITY (score)

Strain	Mean 7 Tests	Carbondale, IL	Sullivan, IN	Manhattan, KS	Lexington, KY	Queenstown, MD	Ripley, OH	S. Charleston, OH
Franklin	1.9	3.0	1.5	1.5	1.0	3.0	1.5	1.5
Sparks (IV)	2.0	3.0	2.0	1.7	1.0	3.0	1.5	1.5
Williams 82 (III)	1.5	2.0	1.5	1.5	1.0	1.8	1.5	1.0
C1641	1.8	4.0	1.5	2.0	1.0	2.0	1.0	1.0
C1642	1.7	3.0	2.0	1.5	1.0	2.0	1.0	1.5
C1645	1.7	3.0	2.0	1.5	1.0	2.0	1.0	1.5
C1653	1.7	3.0	1.5	1.5	1.0	1.8	1.5	1.5
C1654	2.2	5.0	1.5	1.5	1.0	2.8	1.5	2.0
C1656	2.0	4.0	2.0	2.0	1.0	2.3	1.5	1.5
C1657	1.8	3.0	1.5	2.0	1.0	2.3	1.5	1.5
C1659	1.7	3.0	1.5	1.5	1.0	2.5	1.5	1.5
LN80-15170	2.0	4.0	2.0	1.5	1.0	2.8	1.0	1.5
LN80-15885	1.5	2.0	1.0	1.5	1.0	2.0	1.5	1.5
LN80-16017	1.4	2.0	1.5	1.5	1.0	2.0	1.0	1.0
LN81-2686	1.9	2.0	2.5	2.0	1.0	2.8	1.5	1.5
LN81-2934	1.9	3.0	2.5	2.0	1.0	2.0	1.5	1.5
LS80-6358	1.7	3.0	2.0	2.0	1.0	1.3	1.0	1.5
LS80-6521	1.5	2.0	1.5	2.0	1.0	2.0	1.0	1.0
LS81-25	1.4	2.0	1.5	1.5	1.0	1.8	1.0	1.0
Md81-AIC2-48	1.6	3.0	2.0	1.5	1.0	2.0	1.0	1.0
Md81-5123	1.8	3.0	1.5	2.0	1.0	2.0	1.0	2.0
Md81-5129	1.8	3.0	2.5	1.5	1.0	1.8	1.5	1.5
S82-1104	2.0	3.0	2.0	1.5	1.0	1.8	2.0	2.5
S82-1174	1.9	3.0	2.0	2.0	1.0	2.0	1.5	2.0
V81-1185	1.6	2.0	1.5	2.0	1.0	1.8	1.5	1.5

PRELIMINARY TEST IVA, 1984

SEED SIZE (g/100)

Strain	Mean 7 Tests	Carbondale, IL	Sullivan, IN	Manhattan, KS	Lexington, KY	Queenstown, MD	Ripley, OH	S. Charleston, OH
Franklin	13.7	16.4	13.4	12.1	12.2	14.4	12.7	14.7
Sparks (IV)	15.9	18.6	16.8	15.2	13.1	15.8	14.7	16.8
Williams 82 (III)	15.6	18.8	16.3	15.6	12.2	15.8	13.6	16.7
C1641	15.7	18.8	15.9	20.5	11.4	14.8	13.7	14.5
C1642	13.7	17.7	13.4	13.0	10.2	14.0	12.8	15.1
C1645	13.7	16.2	13.9	15.1	11.7	13.3	11.9	13.7
C1653	16.9	19.9	15.8	17.1	13.5	17.4	16.5	17.8
C1654	16.3	19.2	16.9	15.9	12.1	18.0	14.8	17.0
C1656	15.9	20.0	15.0	16.1	12.3	16.3	15.6	15.8
C1657	15.2	19.0	14.6	15.5	10.4	16.5	14.6	15.7
C1659	13.8	15.4	13.9	13.4	11.0	14.9	12.3	15.4
LN80-15170	16.4	19.6	18.3	16.2	9.5	17.9	14.6	18.4
LN80-15885	16.1	19.3	15.8	17.4	13.0	15.9	14.5	16.5
LN80-16017	18.4	21.2	18.8	18.5	15.6	19.0	16.5	19.0
LN81-2686	17.0	20.6	15.8	17.8	13.4	16.8	16.2	18.7
LN81-2934	18.1	21.4	18.7	17.6	15.2	18.0	17.0	18.6
LS80-6358	15.2	16.8	14.7	14.5	13.1	17.1	13.7	16.3
LS80-6521	14.3	16.7	13.8	13.6	11.1	15.3	13.9	15.6
LS81-25	11.8	14.2	11.7	11.2	10.7	11.7	10.8	12.6
Md81-AIC2-48	14.2	18.0	13.0	14.0	11.3	14.7	13.5	15.1
Md81-5123	15.2	18.2	14.7	14.1	12.4	16.6	13.1	17.1
Md81-5129	15.1	16.9	15.7	14.3	12.0	16.3	14.3	16.3
S82-1104	11.5	13.8	11.1	10.8	10.2	12.0	11.1	11.6
S82-1174	14.5	17.0	13.8	14.8	13.3	15.4	12.8	14.2
V81-1185	14.9	17.4	14.7	15.0	13.0	16.3	13.2	14.5

PRELIMINARY TEST IVA, 1984

Strain	PROTEIN (%) Mean 2 Tests	PROTEIN (%) Sullivan, IN	PROTEIN (%) Manhattan, KS	OIL (%) Mean 2 Tests	OIL (%) Sullivan, IN	OIL (%) Manhattan, KS
Franklin	36.1	37.3	34.8	22.1	21.4	22.8
Sparks (IV)	39.0	39.3	38.7	21.8	21.4	22.1
Williams 82 (III)	40.4	40.8	39.9	21.7	21.9	21.5
C1641	37.9	38.0	37.8	22.2	22.0	22.4
C1642	38.5	40.1	36.9	22.5	21.6	23.4
C1645	40.8	41.2	40.4	20.8	20.3	21.3
C1653	39.3	39.6	38.9	21.7	21.5	21.8
C1654	42.4	42.7	42.0	20.0	19.9	20.0
C1656	38.5	40.0	37.0	23.2	23.0	23.3
C1657	40.7	41.3	40.1	20.5	20.5	20.4
C1659	38.4	38.1	38.7	21.6	21.5	21.6
LN80-15170	41.9	42.3	41.4	20.3	20.2	20.4
LN80-15885	40.1	39.2	41.0	21.4	21.3	21.5
LN80-16017	41.8	41.4	42.2	19.9	20.1	19.6
LN81-2686	37.1	38.4	35.8	23.1	22.9	23.3
LN81-2934	38.5	38.8	38.1	22.2	21.7	22.6
LS80-6358	39.6	40.3	38.8	20.8	20.0	21.5
LS80-6521	37.6	37.9	37.3	22.0	21.3	22.6
LS81-25	37.7	38.2	37.2	21.7	21.0	22.3
Md81-AIC2-48	38.8	38.3	39.2	21.9	21.8	21.9
Md81-5123	39.2	40.1	38.3	20.7	20.4	21.0
Md81-5129	39.5	40.8	38.1	20.9	20.5	21.3
S82-1104	39.1	39.5	38.6	20.5	19.6	21.3
S82-1174	40.6	41.6	39.6	20.1	19.3	20.8
V81-1185	38.8	38.8	38.8	20.9	20.9	20.9

	Strain	Parentage	Generation Composited	Descriptive Code	
1.	Sparks (IV)	Williams$_7$ x Calland	F_6	WTT SYBI	I
2.	Williams 82 (III)	Williams^7 x Kingwa	$4BC_6F_3$	WTT SYBI	I
3.	K1106	(Williams x Calland) x Essex	F_5	WTT IYBI	I
4.	K1107	(Williams x Columbus) x Essex	F_5	PTT DYBI	I
5.	K1108	Will x (Williams x Calland)	F_5	PTT SYBI	SD
6.	K1109	(Tracy x Williams) x DeSoto	F_5	PTT IYBr+BI	I
7.	K1110	(Williams x Calland) x Pella	F_5	WTT DYBI	I
8.	L81L-97	Williams x PI 181550	F_6	WTT SYBI	I
9.	Pixie	Williams x Ransom	F_5	PTT SYBI	D
10.	HC78-2486	L72U2567 x Ransom	F_5	PTT SYBI	D
11.	HC79-1625	L72U2567 x Essex	F_5	PTT SYBI	D
12.	HC79-3849	Essex x Elf	F_5	PTT DYBI	D
13.	HC80-593	HC74-3400 x Sprite	F_5	WTT SYBI	D
14.	HC80-597	HC74-3400 x Sprite	F_5	WTT SYBI	D
15.	HC80-1092	Gnome x Ransom	F_5	PTT SYBI	D
16.	HC80-1211	Essex x Elf	F_5	PTT IYBI	D
17.	HC80-1384	Essex x Elf	F_5	PTT SYBI	D
18.	HC80-1604	Essex x Elf	F_5	PTT SYBI	D
19.	HC80-2549	Union x Gnome	F_5	WTT SYBI	D
20.	HC80-2733	L74D-2 x Elf	F_5	PTT SYBr	D
21.	HC80-5952	Essex x Elf	F_5	PTT IYBI	D
22.	HC81-1134	Gnome x Essex	F_5	PTT IYBI	D
23.	HW8372	Pride B-216 x K-9 (Tracy x Williams)	F_6	WTB IYBr	D
24.	LN80-435	K74-104-75-85 x L74D-674	F_4	WTT SYBI	D
25.	LN80-506	K74-104-75-85 x K1028	F_4	WTT SYBI	D
26.	LN80-703	K74-115-75-405 x Pella	F_4	WTT DYBI	D
27.	LN80-1782	Will x K74-115-75-376	F_4	P+WTT SYBI	SD

PRELIMINARY TEST IVB, 1984

Descriptive and Other Data			Disease Data						
		FE	PR			PS	PSB	SMV	GERM
	Shattering Score	Lafayette	Ames	Lafayette	Vickery	Lafayette			
Strain	Manhattan	Race 2 Score	Race 4 Reaction	Race 1 Reaction	Tolerance Score	a %	n %	a Score	%
Sparks (IV)	-	5	S	R	3.1	32	23	5E	71
Williams 82 (III)	1.0	2	R	R	2.1	49	27	4E	73
K1106	1.0	1	S	R	2.8	49	14	4E	46
K1107	1.0	4	S	S	3.3	48	15	5E	68
K1108	1.0	5	S	R	3.4	24	22	3E	70
K1109	1.0	5	R	R	2.5	13	14	5E	63
K1110	1.0	1	S	R	2.6	63	23	5E	80
L81L-97	1.0	5	S	S	2.8	49	20	5E	65
Pixie	1.0	1	S	S	3.3	52	28	2E	69
HC78-2486	1.0	1	S	S	4.3	67	18	5E	50
HC79-1625	-	1	S	S	4.8	66	22	4E	51
HC79-3849	1.0	1	S	S	3.4	26	27	2E	55
HC80-593	1.0	1	S	S	4.1	46	30	3E	42
HC80-597	1.0	1	S	S	4.0	45	30	2E	44
HC80-1092	1.0	1	S	S	4.3	49	25	4E	46
HC80-1211	1.0	2	S	S	3.8	56	51	3E	34
HC80-1384	1.0	2	S	S	3.3	34	47	5E	38
HC80-1604	1.0	1	S	S	3.6	29	27	3E	67
HC80-2549	-	3	S	R	3.9	24	36	5E	52
HC80-2733	1.0	1	S	S	3.4	38	25	5E	51
HC80-5952	1.0	5	S	S	4.1	52	39	3E	33
HC81-1134	1.0	1	S	S	3.6	28	30	4E	46
HW8372	1.0	2	R	R	2.4	29	11	5M	67
LN80-435	2.0	2	S	H	3.0	37	27	4E	60
LN80-506	1.0	4	R	R	2.5	50	21	3E	76
LN8-703	1.0	4	R	R	2.6	17	17	4E	55
LN80-1782	2.0	4	S	S	3.5	19	22	4E	76

PRELIMINARY TEST IVB, 1984
Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	7 bu/a	7 No.	7 Date	7 Score	7 In.	7 Score	7 g/100	2 %	2 %
Sparks (IV)	41.6	3	9-24*	2.3	42	1.9	15.8	38.9	21.4
Williams 82 (III)	41.3	5	-4.0	1.8	39	1.8	15.7	40.3	21.4
K1106	40.7	8	+1.3	1.4	38	1.8	15.4	39.7	21.3
K1107	37.8	21	+0.3	1.5	35	1.8	15.2	43.2	20.2
K1108	34.9	26	-1.4	1.4	34	1.7	13.5	39.4	21.5
K1109	37.3	22	+3.3	2.4	41	2.1	15.0	40.1	20.2
K1110	40.4	9	-0.7	2.4	43	2.4	17.3	38.9	22.1
L81L-97	42.3	2	-2.3	1.7	39	1.5	15.4	39.3	22.0
Pixie	40.4	9	-1.4	1.5	21	1.2	15.9	40.0	21.7
HC78-2486	38.3	17	-0.1	1.3	21	1.8	14.1	40.0	22.5
HC79-1625	39.9	12	+0.1	1.4	21	1.8	16.0	39.0	23.0
HC79-3849	38.3	17	-3.0	1.2	20	1.7	13.7	41.8	20.9
HC80-593	36.7	24	-0.9	1.1	21	1.7	18.1	41.1	21.5
HC80-597	41.1	7	+0.4	1.2	23	2.0	17.3	40.3	21.8
HC80-1092	42.5	1	-1.7	1.3	20	1.6	15.8	39.6	22.2
HC80-1211	41.5	4	-2.0	1.1	22	1.6	13.2	41.4	21.6
HC80-1384	33.2	27	-3.7	1.4	17	1.8	14.1	43.1	20.6
HC80-1604	40.0	11	-1.0	1.3	18	1.6	14.7	41.6	21.2
HC80-2549	39.7	13	-5.4	1.4	22	1.8	15.1	42.5	19.6
HC80-2733	39.5	14	+1.3	1.6	20	2.1	14.2	40.3	20.6
HC80-5952	36.1	25	+1.3	1.2	18	1.8	13.6	40.7	21.6
HC81-1134	41.2	6	+0.6	1.6	23	1.4	15.2	41.2	21.1
HW8372	38.5	16	-2.3	1.5	27	1.7	17.3	40.1	21.7
LN80-435	38.3	17	-1.0	1.6	26	1.5	16.0	42.2	20.6
LN80-506	36.8	23	+1.0	1.5	25	1.6	14.0	42.6	19.5
LN80-703	39.0	15	+3.0	1.7	27	1.9	16.5	40.2	21.2
LN80-1782	37.9	20	-3.6	1.7	31	1.5	15.8	41.9	20.8

*125 days after planting.

Two strains, HC80-1092 and L81L-97 were superior in yield to the check variety Sparks. Both strains were susceptible to PR races 1 and 4. The determinate strain HC80-1092 averaged 2 bushels per acre higher in yield than Pixie but in other characteristics these two entries were very similar.

PRELIMINARY TEST IVB, 1984

YIELD (bu/a)

Strain	Mean 7 Tests	Carbondale, IL	Sullivan, IN	Manhattan, KS	Lexington, KY	Queenstown, MD	Ripley, OH	S. Charleston, OH
Sparks (IV)	41.6	34.6	50.0	29.8	23.5	45.5	43.9	63.9
Williams 82 (III)	41.3	28.4	50.2	34.3	25.0	46.6	41.2	63.7
K1106	40.7	36.6	36.7	34.0	30.8	45.7	41.8	59.4
K1107	37.8	21.1	30.0	33.1	27.8	52.7	36.6	63.2
K1108	34.9	24.7	27.6	30.6	20.0	46.2	39.3	56.1
K1109	37.3	30.0	40.5	30.4	23.2	43.1	35.0	59.0
K1110	40.4	29.1	50.3	31.5	25.7	47.0	41.6	57.3
L81L-97	42.3	37.7	53.9	34.6	25.4	47.0	39.4	58.4
Pixie	40.4	27.5	37.3	37.1	28.2	45.6	45.3	61.5
HC78-2486	38.3	34.3	13.9	37.1	28.8	46.7	47.6	59.9
HC79-1625	39.9	35.7	31.8	30.4	28.3	48.7	47.7	56.8
HC79-3849	38.3	24.4	28.6	37.4	26.8	50.3	42.5	58.4
HC80-593	36.7	18.9	20.2	37.7	26.0	48.6	46.3	59.4
HC80-597	41.1	22.5	35.8	44.7	26.8	49.5	52.1	56.3
HC80-1092	42.5	42.4	27.4	40.1	31.9	47.2	45.8	62.8
HC80-1211	41.5	47.0	29.2	36.5	28.7	50.8	40.7	57.3
HC80-1384	33.2	25.6	15.5	28.6	26.6	49.8	30.1	56.4
HC80-1604	40.0	33.5	21.3	31.1	30.6	58.4	42.6	62.7
HC80-2549	39.7	31.6	33.6	34.5	27.2	46.2	43.1	61.8
HC80-2733	39.5	35.0	28.6	33.7	29.7	48.3	45.3	55.6
HC80-5952	36.1	37.3	19.1	32.3	28.4	47.6	34.5	53.3
HC81-1134	41.2	38.1	35.5	39.5	31.9	47.4	40.4	55.5
HW8372	38.5	27.1	32.7	36.4	29.8	47.9	35.2	60.5
LN80-435	38.3	28.3	32.4	34.2	25.3	49.3	41.5	57.1
LN80-506	36.8	30.7	26.4	34.1	25.1	46.7	35.6	59.1
LN80-703	39.0	32.8	34.3	35.0	21.0	45.3	50.0	54.6
LN80-1782	37.9	29.6	31.3	35.3	28.0	46.2	37.7	57.5
C.V. (%)		19.5	17.5	9.8	7.9	4.9	9.8	4.3
L.S.D. (%)		12.5	11.7	6.9	4.7	4.9	8.4	5.2
Row sp. (in.)		30	28	30	30	30	30	30
Rows/plot		4	3	4	4	4	4	4
Reps		2	2	2	2	2	2	2

PRELIMINARY TEST IVB, 1984

YIELD RANK

Strain		Carbondale, IL	Sullivan, IN	Manhattan, KS	Lexington, KY	Queenstown, MD	Ripley, OH	S. Charleston, OH
Sparks (IV)	3	9	4	26	24	25	9	1
Williams 82 (III)	5	18	3	14	23	19	16	2
K1106	8	6	7	17	3	23	13	10
K1107	21	26	16	19	13	2	22	3
K1108	26	23	20	23	27	21	20	23
K1109	22	15	5	24	25	27	25	13
K1110	9	17	2	21	19	15	14	17
L81L-97	2	4	1	12	20	15	19	14
Pixie	9	20	6	6	11	24	7	7
HC78-2486	17	10	27	6	7	17	4	9
HC79-1625	12	7	14	24	10	8	3	20
HC79-3849	17	24	18	5	15	4	12	14
HC80-593	24	27	24	4	18	9	5	10
HC80-597	7	25	8	1	15	6	1	22
HC80-1092	1	2	21	2	1	14	6	4
HC80-1211	4	1	17	8	8	3	17	17
HC80-1384	27	22	26	27	17	5	27	21
HC80-1604	11	11	23	22	4	1	11	5
HC80-2549	13	13	11	13	14	21	10	6
HC80-2733	14	8	18	18	6	10	7	24
HC80-5952	25	5	25	20	9	12	26	27
HC81-1134	6	3	9	3	1	13	18	25
HW8372	16	21	12	9	5	11	24	8
LN80-435	17	19	13	15	21	7	15	19
LN80-506	23	14	22	16	22	17	23	12
LN80-703	15	12	10	11	26	26	2	26
LN80-1782	20	16	15	10	12	21	21	16

PRELIMINARY TEST IVB, 1984

MATURITY (date)

Strain	Mean 7 Tests	Carbondale, IL	Sullivan, IN	Manhattan, KS	Lexington, KY	Queenstown, MD	Ripley, OH	S. Charleston, OH
Sparks (IV)	9-24	10-1	9-29	9-25	9-10	9-29	9-20	9-26
Williams 82 (III)	-4.0	-10	-5	-3	-2	-3	-6	+1
K1106	+1.3	-2	-1	0	+2	+4	0	+6
K1107	+0.3	-2	-1	+1	0	+5	-4	+3
K1108	-1.4	-4	-6	0	0	0	-1	+1
K1109	+3.3	-4	+3	+1	+5	+5	+1	+12
K1110	-0.7	-5	-3	-1	-2	+2	0	+4
L81L-97	-2.3	-8	-4	-2	-2	-1	-2	+3
Pixie	-1.4	-11	-2	0	0	+1	-2	+4
HC78-2486	-0.1	-2	-3	+1	0	-2	0	+5
HC79-1625	+0.1	0	-6	+2	0	-1	0	+6
HC79-3849	-3.0	+1	-8	-1	-7	-3	-4	+1
HC80-593	-0.9	-4	-4	+1	-4	-2	+4	+3
HC80-597	+0.4	-4	-3	+1	-2	-3	+7	+7
HC80-1092	-1.7	-5	-4	+1	-2	-3	-1	+2
HC80-1211	-2.0	-2	-9	-1	-2	-4	-1	+5
HC80-1384	-3.7	-14	-8	-1	-4	-3	0	+4
HC80-1604	-1.0	-11	-2	0	-2	-1	0	+9
HC80-2549	-5.4	-13	-10	-4	-7	-3	0	-1
HC80-2733	+1.3	-4	-1	+1	0	+2	+3	+8
HC80-5952	+1.3	0	0	+1	0	-3	+3	+8
HC81-1134	+0.6	-4	0	0	0	-1	+1	+8
HW8372	-2.3	-4	-9	-2	0	-2	-2	+3
LN80-435	-1.0	-8	-6	0	0	+5	-1	+3
LN80-506	+1.0	-1	-4	0	0	+5	+1	+6
LN80-703	+3.0	0	0	0	+2	+7	+4	+8
LN80-1782	-3.6	-14	-7	-2	0	-2	-3	+3
Date planted	5-22	5-18	5-25	5-31	5-18	6-12	5-14	5-2
Days to mature	125	136	127	117	115	109	129	147

PRELIMINARY TEST IVB, 1984

LODGING (score)

Strain	Mean 7 Tests	Carbondale, IL	Sullivan, IN	Manhattan, KS	Lexington, KY	Queenstown, MD	Ripley, OH	S. Charleston, OH
Sparks (IV)	2.3	2.0	1.8	2.0	2.0	4.0	1.5	3.0
Williams 82 (III)	1.8	1.5	1.8	2.0	1.0	2.8	1.0	2.3
K1106	1.4	1.5	1.0	1.5	1.0	2.5	1.0	1.5
K1107	1.5	1.0	1.0	1.5	2.0	2.3	1.0	2.0
K1108	1.4	1.0	1.0	1.0	1.0	3.0	1.0	2.0
K1109	2.4	2.5	2.3	1.0	2.0	3.5	1.5	3.8
K1110	2.4	2.0	1.8	2.0	2.0	4.0	1.8	3.0
L81L-97	1.7	1.0	1.0	2.0	2.0	3.0	1.0	1.8
Pixie	1.5	1.0	1.0	1.0	2.0	3.3	1.0	1.5
HC78-2486	1.3	1.0	1.0	1.0	1.0	2.8	1.0	1.3
HC79-1625	1.4	1.0	1.0	1.0	2.0	2.5	1.0	1.3
HC79-3849	1.2	1.0	1.0	1.0	1.0	1.8	1.0	1.3
HC80-593	1.1	1.0	1.0	1.0	1.0	1.5	1.0	1.0
HC80-597	1.2	1.0	1.0	1.0	1.0	2.3	1.0	1.0
HC80-1092	1.3	1.0	1.0	1.0	1.0	2.5	1.0	1.5
HC80-1211	1.1	1.0	1.0	1.0	1.0	1.8	1.0	1.0
HC80-1384	1.4	1.0	1.0	1.0	2.0	2.3	1.0	1.3
HC80-1604	1.3	1.0	1.0	1.0	1.0	2.5	1.0	1.5
HC80-2549	1.4	1.0	1.0	1.0	1.0	3.3	1.0	1.5
HC80-2733	1.6	1.0	1.0	1.0	2.0	3.5	1.0	1.5
HC80-5952	1.2	1.0	1.0	1.0	1.0	2.5	1.0	1.0
HC81-1134	1.6	1.0	1.0	1.0	2.0	3.5	1.0	1.5
HW8372	1.5	1.0	1.0	1.0	2.0	3.0	1.0	1.3
LN80-435	1.6	1.0	1.0	1.0	2.0	3.5	1.0	1.5
LN80-506	1.5	1.0	1.0	1.0	2.0	3.0	1.0	1.3
LN80-703	1.7	1.0	1.0	1.0	2.0	3.5	1.5	1.8
LN80-1782	1.7	1.0	1.0	1.0	2.0	3.5	1.0	2.3

PRELIMINARY TEST IVB, 1984

PLANT HEIGHT (inches)

Strain	Mean 7 Tests	Carbondale, IL	Sullivan, IN	Manhattan, KS	Lexington, KY	Queenstown, MD	Ripley, OH	S. Charleston, OH
Sparks (IV)	42	39	47	40	35	54	41	41
Williams 82 (III)	39	37	46	41	32	41	39	39
K1106	38	36	40	39	34	39	35	41
K1107	35	31	36	39	32	37	34	38
K1108	34	32	35	34	33	37	33	35
K1109	41	38	44	42	38	41	39	42
K1110	43	41	49	42	38	49	42	41
L81L-97	39	38	45	40	30	41	38	40
Pixie	21	19	19	21	21	21	22	23
HC78-2486	21	18	14	23	22	24	24	20
HC79-1625	21	19	19	21	26	23	21	21
HC79-3849	20	21	16	19	22	22	21	22
HC80-593	21	19	15	21	26	25	18	22
HC80-597	23	20	18	21	26	26	24	23
HC80-1092	20	18	17	20	24	23	22	19
HC80-1211	22	19	18	22	25	21	22	24
HC80-1384	17	17	13	18	19	17	17	20
HC80-1604	18	17	16	18	21	18	19	20
HC80-2549	22	22	19	20	24	25	18	23
HC80-2733	20	19	16	19	22	22	18	22
HC80-5952	18	17	15	16	21	19	18	20
HC81-1134	23	20	21	24	25	23	23	24
HW8372	27	24	26	29	30	30	24	25
LN80-435	26	24	26	26	28	27	26	27
LN80-506	25	23	24	25	27	25	24	27
LN80-703	27	26	24	27	30	26	29	29
LN80-1782	31	30	35	31	33	31	32	26

PRELIMINARY TEST IVB, 1984

SEED QUALITY (score)

Strain	Mean 7 Tests	Carbondale, IL	Sullivan, IN	Manhattan, KS	Lexington, KY	Queenstown, MD	Ripley, OH	S. Charleston, OH
Sparks (IV)	1.9	3.0	2.0	2.5	1.0	2.0	1.5	1.5
Williams 82 (III)	1.8	3.0	1.5	3.0	1.0	1.0	1.5	1.5
K1106	1.8	3.0	2.0	2.0	1.0	1.3	1.5	2.0
K1107	1.8	3.0	2.5	1.5	1.0	1.3	1.5	1.5
K1108	1.7	3.0	2.0	1.5	1.0	1.3	1.5	1.5
K1109	2.1	4.0	2.0	2.0	2.0	1.0	2.0	1.5
K1110	2.4	5.0	2.5	1.5	2.0	2.0	2.0	2.0
L81L-97	1.5	3.0	1.5	1.0	1.0	1.0	1.5	1.5
Pixie	1.2	2.0	1.0	1.5	1.0	1.1	1.0	1.0
HC78-2486	1.8	5.0	1.5	2.0	1.0	1.0	1.0	1.0
HC79-1625	1.8	5.0	1.5	2.0	1.0	1.0	1.0	1.0
HC79-3849	1.7	4.0	2.0	2.0	1.0	1.0	1.0	1.0
HC80-593	1.7	3.0	2.5	1.5	1.0	2.0	1.0	1.0
HC80-597	2.0	5.0	2.0	2.0	1.0	1.3	1.5	1.0
HC80-1092	1.6	3.0	1.5	1.5	1.0	1.5	1.0	1.5
HC80-1211	1.6	4.0	1.5	1.5	1.0	1.0	1.0	1.0
HC80-1384	1.8	5.0	1.0	2.5	1.0	1.0	1.0	1.0
HC80-1604	1.6	4.0	1.0	2.0	1.0	1.0	1.0	1.0
HC80-2549	1.8	4.0	2.0	2.0	1.0	1.3	1.0	1.0
HC80-2733	2.1	5.0	1.5	2.0	1.0	1.8	2.0	1.5
HC80-5952	1.8	5.0	1.0	2.0	1.0	1.0	1.5	1.0
HC81-1134	1.4	3.0	1.0	1.5	1.0	1.5	1.0	1.0
HW8372	1.7	3.0	1.5	1.5	1.0	2.0	1.5	1.5
LN80-435	1.5	2.0	1.5	2.0	1.0	1.0	1.5	1.5
LN80-506	1.6	3.0	1.5	2.0	1.0	1.5	1.5	1.0
LN80-703	1.9	4.0	2.5	1.5	1.0	1.3	1.5	1.5
LN80-1782	1.5	3.0	1.5	1.0	1.0	1.0	1.5	1.5

PRELIMINARY TEST IVB, 1984

SEED SIZE (g/100)

Strain	Mean 7 Tests	Carbondale, IL	Sullivan, IN	Manhattan, KS	Lexington, KY	Queenstown, MD	Ripley, OH	S. Charleston, OH
Sparks (IV)	15.8	18.6	16.8	13.0	11.4	17.2	16.2	17.2
Williams 82 (III)	15.7	18.8	16.3	13.5	11.7	17.5	15.3	17.1
K1106	15.4	18.6	15.8	12.3	13.2	17.0	14.2	16.5
K1107	15.2	17.4	14.6	13.5	12.0	17.2	14.4	17.2
K1108	13.5	16.7	13.6	12.1	10.1	15.6	12.8	13.8
K1109	15.0	16.5	16.2	13.3	11.0	17.7	12.7	17.3
K1110	17.3	21.1	15.5	16.4	13.6	19.3	16.9	18.4
L81L-97	15.4	18.6	15.4	14.1	12.2	17.8	13.8	16.1
Pixie	15.9	19.7	16.1	14.4	12.3	17.5	16.2	15.1
HC78-2486	14.1	17.5	14.9	12.7	11.0	13.9	14.9	13.9
HC79-1625	16.0	20.9	16.6	16.3	11.1	16.1	15.3	15.7
HC79-3849	13.7	19.3	12.9	12.4	10.2	14.3	13.6	13.0
HC80-593	18.1	21.0	18.5	17.9	14.2	18.0	20.0	17.2
HC80-597	17.3	20.5	18.6	16.1	12.1	17.1	20.6	16.4
HC80-1092	15.8	20.0	15.5	16.0	12.2	15.8	15.7	15.6
HC80-1211	13.2	18.5	12.4	12.3	10.1	13.1	13.6	12.3
HC80-1384	14.1	17.8	13.1	13.5	11.2	14.7	14.3	14.3
HC80-1604	14.7	18.5	15.1	14.3	10.9	14.5	16.1	13.4
HC80-2549	15.1	19.8	14.7	13.9	12.5	14.6	16.0	14.3
HC80-2733	14.2	18.1	13.6	14.1	10.4	15.1	14.5	13.4
HC80-5952	13.6	18.2	13.3	12.9	10.3	13.7	14.1	12.7
HC81-1134	15.2	20.2	14.6	14.4	11.7	14.5	14.7	16.5
HW8372	17.3	22.0	16.1	15.9	14.4	19.0	16.5	17.4
LN80-435	16.0	19.2	16.7	13.6	13.4	16.8	16.5	15.9
LN80-506	14.0	17.8	13.5	12.9	11.7	14.9	14.1	13.1
LN80-703	16.5	17.8	17.4	14.5	12.4	18.0	17.8	17.4
LN80-1782	15.8	18.4	17.0	15.3	12.4	16.9	14.3	16.1

PRELIMINARY TEST IVB, 1984

Strain	PROTEIN (%) Mean 2 Tests	PROTEIN (%) Sullivan, IN	PROTEIN (%) Manhattan, KS	OIL (%) Mean 2 Tests	OIL (%) Sullivan, IN	OIL (%) Manhattan, KS
Sparks (IV)	38.9	39.6	38.1	21.4	20.5	22.3
Williams 82 (III)	40.3	40.3	40.2	21.4	21.5	21.3
K1106	39.7	40.1	39.2	21.3	21.7	20.8
K1107	43.2	43.6	42.7	20.2	19.8	20.5
K1108	39.4	40.1	38.7	21.5	21.2	21.7
K1109	40.1	40.0	40.1	20.2	19.9	20.4
K1110	38.9	39.1	38.7	22.1	21.7	22.5
L81L-97	39.3	39.8	38.7	22.0	21.3	22.7
Pixie	40.0	41.2	38.7	21.7	20.8	22.5
HC78-2486	40.0	41.1	38.8	22.5	22.1	22.9
HC79-1625	39.0	39.8	38.2	23.0	22.5	23.4
HC79-3849	41.8	42.5	41.0	20.9	20.0	21.7
HC80-593	41.4	42.4	40.4	21.5	20.9	22.1
HC80-597	40.3	41.0	39.5	21.8	21.4	22.1
HC80-1092	39.6	40.6	38.6	22.2	21.8	22.6
HC80-1211	41.4	42.1	40.6	21.6	21.3	21.9
HC80-1384	43.1	43.0	43.1	20.6	20.5	20.7
HC80-1604	41.6	42.5	40.7	21.2	20.5	21.9
HC80-2549	42.5	42.7	42.3	19.6	19.4	19.8
HC80-2733	40.3	41.2	39.3	20.6	20.2	20.9
HC80-5952	40.7	42.0	39.4	21.6	20.8	22.3
HC81-1134	41.2	41.7	40.6	21.1	20.2	21.9
HW8372	40.1	41.3	38.9	21.7	20.8	22.5
LN80-435	42.2	42.6	41.8	20.6	20.2	20.9
LN80-506	42.6	42.6	42.6	19.5	19.1	19.9
LN80-703	40.2	41.0	39.4	21.2	20.2	22.1
LN80-1782	41.9	42.6	41.1	20.8	20.3	21.3