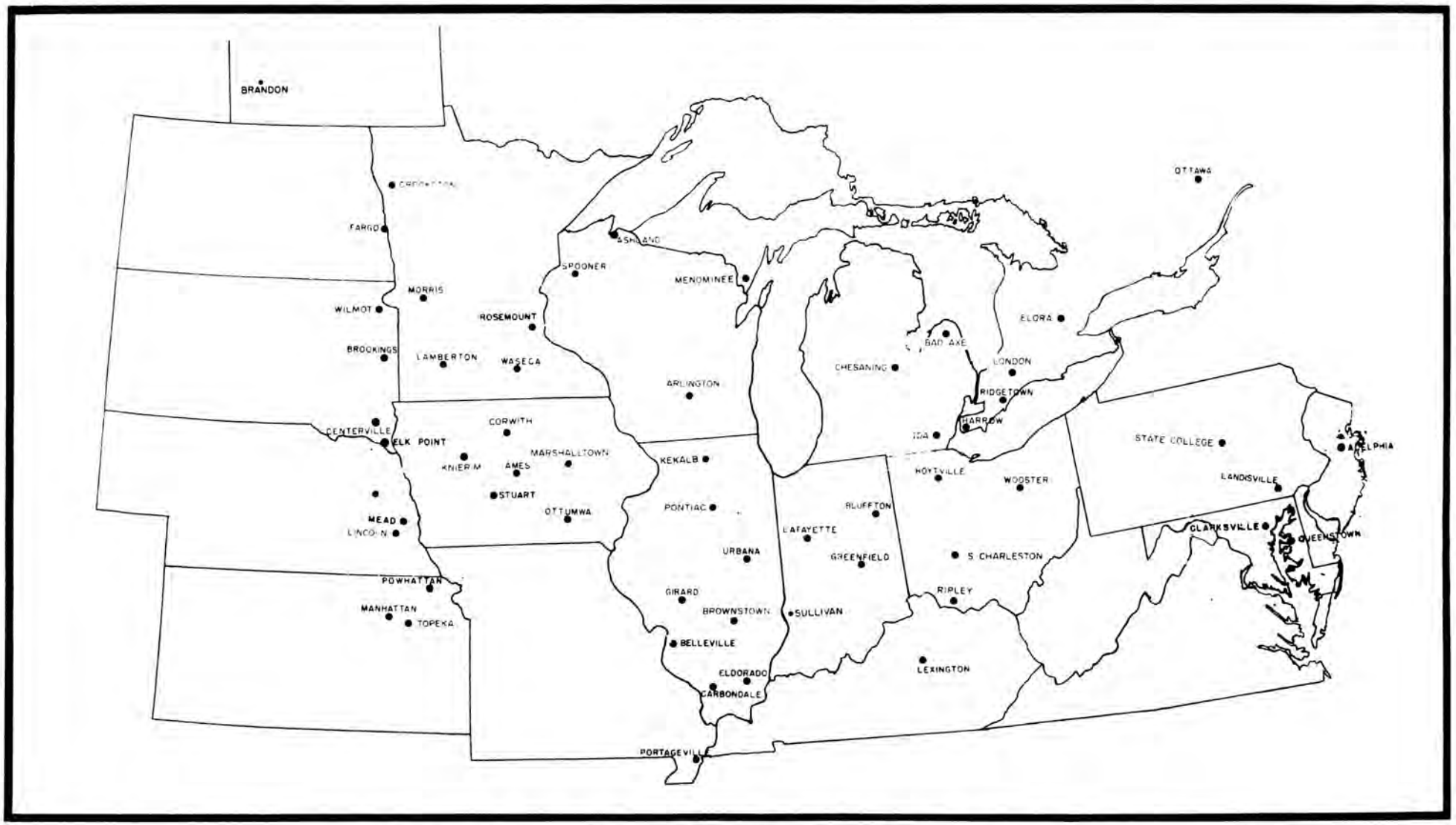

LOCATIONS OF UNIFORM SOYBEAN TESTS, NORTHERN STATES, 1983

THE UNIFORM SOYBEAN TESTS

NORTHERN STATES

1985

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ACKNOWLEDGEMENTS

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INTRODUCTION

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

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

Data from the Uniform Tests form the basis for decisions on the regional release of soybean varieties. Preliminary Tests are grown at a limited number of locations throughout the region to screen the experimental strains for maturity and general agronomic performance for one year before they are entered in the Uniform Tests.

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

Seed or experimental lines entered in the uniform tests should not be sent to non participants. Requests for seed of unreleased lines or experimental strains should be referred to the breeder or agency originating the strain, listed on page 5.

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 Statements or data in the report, therefore, should not be published unless permission has been obtained previously by those concerned.

STRAIN DESIGNATION

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

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

METHODS

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

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

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

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

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

Group	Reference	Range	Early Tie	Late Tie
00	McCall	-7 to +5		Clay (0)
0	~~Evans~~ Dawson	-5 to +3	McCall (00)	Hodgson 78 (I)
I	~~Hodgson 78~~ Sibley	~~-3~~ -4 to ~~+5~~ +4	~~Evans~~ Dawson (0)	Elgin (II)
II	Elgin	-3 to +5	~~BSR~~ (0) Hardin	Zane (III)
III	Harper	-4 to +4	Century 84 (II)	Morgan ~~Sparks~~ (IV)
IV	~~Sparks~~ Morgan	~~-3~~ -4 to ~~+8~~ +7	~~Williams 82~~ Chamberlain (III)	Douglas (IV)

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

Lodging is rated at maturity according to the following scores:

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

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

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

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

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

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

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

1 = Flower Color: Purple, White
2 = Pubescence Color: Tawny, Gray, Light tawny
3 = Pod Color: Brown, Tan
4 = Seed Coat Luster: Dull, Shiny, Intermediate
5 = Seed Coat Color: Yellow, Gray, Light gray, Green
6 = Hilum Color: Black, Imperfect black, Brown, Buff, Gray, Tan, Yellow; prefixes indicate Light or Dark shades, e.g., Lbi = light buff, Dib = dark imperfect black.
7 = Stem termination: Determinate, Indeterminate, Semi-Determinate

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

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

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

Emergence Score is related to Hypocotyl longation and was measured at Ames, Iowa by germination at 25°C (a critical temperature for differentiating strains.) Four replications of 25 seeds/entry are planted in a 5-inch plastic pot, at a 4 1/2 - inch depth in sand.

Only the seedlings which have emerged by 12 days after planting are counted. Emergence score in relation to % of seeds which germinate and emerge are as follows:

1 ≥ 85%
2 + 70 - 84%
3 = 45 - 69%
4 = 20 - 44%
5 = 0 - 19%

DISEASE

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

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

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

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

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

length browned, and those for PR on seedling rotting and/or stunting. Tolerance ratings with PR races 1 and 3 present are: 1 = none-trace dead plants; 2 = up to 2% dead plants, no stunting or chlorosis; 3 = up to 10% dead plants, slight stunting or chlorosis; 4 = up to 50% dead plants, moderate stunting and chlorosis; 5 = over 50% dead plants, sever stunting and chlorosis.

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

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

POLICY ON TESTING AND RELEASE OF STRAINS

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

Development and release of soybean strains is carried out by many public institutions. The programs at these institutions operate independently until strains are available for advanced testing in the Uniform Soybean Tests. The Uniform Soybean Tests are coordinated by Agricultural Research, ~~Science and Education Administration,~~ Service U.S. Department of Agriculture. The tests are divided into those in the Northern States, for strains in maturity groups 00 to IV, and those in the Southern States, for strains in maturity groups V to VIII. Group IV maturity strains are divided into a IV N test for the northern states and a IV S test for the southern states.

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

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

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

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

A strain should be released only if it is distinctly superior to existing varieties in one or more characteristics important for the crop, or it is superior in overall performance in areas where adapted. A single major production hazard which a new cultivar can overcome, e.g., a highly destructive disease, may become the overriding consideration in releasing a variety. Strains with a very limited

range in adaptation should not be released unless performance in that limited range is outstandingly superior, or the strain possesses important use values not otherwise available, including diversification of the germplasm base for the species.

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

A release notice to soybean seed producers listing all institutions participating in the release of the cultivar is prepared by the originating institutions. This notice is circulated for signature by all participating institutions. Assistance in the preparation and circulation of this release notice may be obtained from ~~R. C. Leffel, Oilseed Specialist, National Program Staff, Room 304, Bldg. 005, Beltsville AGricultural Research Center West, Beltsville, Maryland, 230705.~~ The date for simultaneous publicity release on the new cultivar by participating states usually is August 1, but the date may be delayed until April 1 of the following year if additional UT data are being reviewed and a final decision to release has not been made.

If an additional year of UT data are being reviewed prior to a final decision on release, states producing foundation seed must notify the originating state by February 15 of their intent to participate in the release of the cultivar. The release notice to soybean seed producers should be distributed for signature by the participating institutions by April 1.

Foundation seed under the name of the new cultivar is distributed to qualified certified seed producers in states releasing the new cultivar by April 1. At this time a sample of seed may be distributed to non-participants in the UT including private plant breeders, for testing and for crossing if this distribution has not been made previously.

USDA, ARS
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UNIFORM TEST STRAINS RELEASED IN 1985

Variety	Experimental Designation	Uniform Test Evaluations
BSR 101	A80-149020	UT I 1984-1985, UT II 1983-1985, UP I 1982
Fremont	U-76360	UT III 1983, UP IIIB 1982
Gnome 85	HC-Gnome Rps 1-k	UT II 1984-1985
Logan	U-75633	UT III 1982-1983, UP IIB 1981
Preston	A81-257031	UT II 1983-1984, UP IIA 1982
Ripley	HC77-2204	UT IV 1982-1985, UP IV 1981
Weber 84	Weber BC	UT I 1982-1983
Sherman	HW8067	UT III, 1982-1984, UP III B 1981

Variety	Release Date	Releasing States	Foundation Seed Production
BSR 101	Aug. 15, 1985	IA, IL, MI, MN, NE, SD	1985
Fremont	July 15, 1985	NE	1985
Gnome 85	Sept. 1, 1985	IL, OH	1985
Logan	Jan. 15, 1985	NE	1984
Preston	Aug. 15, 1985	IA, IL, SD	1985
Ripley	Sept. 1, 1985	IL, IN, KY, MO, OH	1985
Weber 84	Aug. 15, 1985	MN, SD	1985
Sherman	Sept. 1, 1985	IL, IN, KS, KY, MO, OH	1985

UNIFORM TEST LOCATIONS - 1985

Location		Conducted by	Uniform Tests						Prelim. Tests			
			00	0	I	II	III	IV	I	II	III	IV
IA	Ames	W. R. Fehr				X				X		
	Corwith	W. R. Fehr			X				X			
	Manson	W. R. Fehr			X				X			
	Marshalltown	W. R. Fehr				X				X		
	Ottumwa	W. R. Fehr					X				X	
	Stuart	W. R. Fehr					X				X	
IL	Belleville	R. L. Bernard						X				
	Carbondale	O. Meyers, Jr.						X				X
	Dekalb	C. D. Nickell				X						
	Eldorado	R. L. Bernard					X	X				X
	Pontiac	C. D. Nickell				X						
	Urbana	C. D. Nickell				X	X			X	X	
IN	Bluffton	J. R. Wilcox				X	X					
	Lafayette	and			X	X	X	X		X	X	
	Sullivan	M. T. Roach					X	X				X
KS	Manhatten	W. T. Schapaugh, Jr.					X	X			X	X
	Topeka	W. T. Schapaugh, Jr.					X	X				
KY	Lexington	T. Pfeiffer					X	X				X
MD	Queenstown	W. J. Kenworthy and P. B. Cregan					X	X				X
MI	Bad Axe	T. G. Isleib		X								
	Britton	T. G. Isleib			X	X				X		
	St. Charles	T. G. Isleib			X	X			X			
	Chathem	R. H. Leep	X									
MN	Crookston	J. H. Orf	X									
	Lamberton	J. H. Orf			X	X			X			
	Morris	J. H. Orf	X	X								
	Rosemount	J. H. Orf	X	X								
	Waseca	J. H. Orf			X	X			X			
MO	Portageville (clay)	S. Anand						X				
	Portageville (loam)	S. Anand						X				
	Columbia	D. G. Helsel					X	X				
NE	Lincoln	J. H. Williams						X				
	Mead	J. H. Williams			X	X	X			X	X	
NJ	Adelphia	J. R. Justin				X	X	X		X		
ND	Fargo	D. H. Whited	X	X								
OH	Hoytville	B. A. McBlain				X	X			X	X	
	Ripley	R. L. Cooper					X	X				X
	S. Charlestown	R. L. Cooper					X	X			X	X
	Wooster	B. A. McBlain				X	X					
ON	Elora	W. D. Beversdorf	X	X								
	Harrow	R. I. Buzzell				X						
	London	W. D. Beversdorf			X							
	Ottowa	H. D. Voldeng	X	X								
	Ridgetown	G. R. Ablett			X	X						
	Smithfield	H. D. Voldeng		X								
	Woodslee	R. I. Buzzell					X					

Location		Conducted by	00	0	I	II	III	IV	I	II	III	IV
PA	Landisville	J. O. Yocum					X	X				
	State College	J. O. Yocum			X	X						
SD	Brookings	J. J. Bonneman			X	X			X			
	Centerville	J. J. Bonneman				X				X		
	Elk Point	J. J. Bonneman					X				X	
	Wilmot	J. J. Bonneman		X	X							
WI	Arlington	E. T. Gritton			X	X			X	X		
	Ashland	E. T. Gritton	X									
	Spooner	E. T. Gritton		X								
VA	Orange	G. R. Buss						X				
No. locations with agronomic data (X)			8	9	14	21	21	18	7	10	9	8
No. with seed composition data			4	4	4	3	5	5	4	3	5	5

1985 Disease, Shattering, and Descriptive Data

Location		Tests Conducted by	Tests	U. T.	P. T.
IA	Ames	J. Dunleavy	BTS	00 - IV	
	Ames	W. R. Fehr	Iron chlorosis	00 - IV	I - III
	Ames	W. R. Fehr	Emergence	00 - IV	
	Ames	H. Tachibana	BSR, PR_4	00 - IV	I - IV
IL	Belleville	R. L. Bernard	BS	IV	
	Eldorado	R. L. Bernard	BP		IV
	Eldorado	R. L. Bernard	Shattering	III - IV	IV
	Urbana	C. D. Nickell	DM, BSR	II - III	II - III
	Urbana	C. D. Nickell	PM	II - III	II
IN	Lafayette	K. L. Athow and J. R. Wilcox	PR_1	00 - IV	I - IV
	Lafayette	T. S. Abney and T. L. Richards	PS, PSB, SMV, Germ.	00 - IV	I - IV
KS	Manhatten	W. T. Schapaugh, Jr.	Shattering	00 - IV	I - IV
MN	Crookston	J. H. Orf	Iron chlorosis	00	
	Rosemount	J. H. Orf	Iron chlorosis	0	
	Waseca	J. H. Orf	Iron chlorosis	I - II	
	Lamberton	J. H. Orf	Iron chlorosis	III - IV	I
OH	Vickery	A. F. Schmitthenner	PR tolerance	II - IV	II - IV
VA	Orange	D. E. Starner	PS, Mottling	IV	

IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
A1	Anoka x Mack
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
A74-203002	M59-120 x IVR Ex 4731
A74-304009	IVR Ex 5003 x L66L-144
A75-204018	IVR Ex 4731 x Wirth
A75-305010	AP6
A75-305022	Wye x (Amsoy x Wayne)
A76-103002	AP6
A76-202015	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
A78-123018	Pride B-216 x Hodgson
A79-134008	AP6 (1YT) (F_4) C2
A79-138024	A74-102011 x C1523
A79-334010	Pride B-216 x Land o'Lakes 4102
A80-247007	A75-204018 x Weber
Agripro AP200	Amsoy Phyt. Sel. 255 x Swift
Agripro AP225C	Beeson x Hark
AP6	40 lines intermated
AP68-1016	Clark[5] x PI 84946-2
Asgrow 1937	Wayne-Rps1 x Hodgson
Asgrow A3127	Williams x Essex
Asgrow A3585	L66L-140 x Cutler
BD21115	Unknown
BD2115-13	(Amsoy x Portage) x 840-7-3
C1253	Blackhawk x Harosoy
C1426	C1253 x Kent

IDENTIFICATION OF PARENT STRAINS (CONT.)

Strain	Parentage
C1430	C1253 x Kent
C1523	Beeson x L63-1397
C1529	Calland x L63-1397
CM145	Acme x Blackhawk
CX456-90	Amsoy x PI 219.782
CX540-21-1-2-1-2-1-1	Harly x PI 80.837
CX663-37-2-2	L72-844C-1 x CX456-90
CX750-82	Harcor x Hodgson
D49-2510	S100 x CNS
D49-2491	S100 x CNS
D60-9647	FC31745 x D49-2510
D64-3146	$D49\text{-}2491^{5}$ x Hawkeye
FH21-2	Unknown
FH31-3	Unknown
H7847	Evans x Williams
HC74-678	Amsoy 71 x Ransom
HC74-3400	Williams x Ransom
HC75-5605	Woodworth x V68-1034
HW79015	A72-512 x Oakland
HW79149	$(A72\text{-}507^{6}$ x Al) x $(A72\text{-}507^{5}$ x PI 82263-2)
IVR 1120	Provar x (Amsoy x PI 191.110-1)
IVR Ex 4311	Hark x Wayne
IVR Ex 4426	Amsoy x Wayne
IVR Ex 4731	Amsoy x Wayne
IVR Ex 5003	Provar x (Amsoy x PI 91.110-1)
J74-5	Unknown
J74-67-7	Unknown
JA42	Kogane-Jiro
JA45	Pi 196.163
JA53-1	Line from Chinese commercial variety
JA53-7-6	Line from Chinese commercial variety
K10	Tracy x Williams
K74-104-76-165	Williams x Tracy
K74-104-76-205	Tracy x Williams

IDENTIFICATION OF PARENT STRAINS (CONT.)

Strain	Parentage
K74-113-76-486	Tracy x Pomona
K74-114-75-000	Tracy x Bonus
K74-115-76-754	Tracy x Columbus
K79-1	Williams x D60-9647
K1022	Williams x Columbus
K1048	Tracy x Bonus
K1056	Tracy x Williams
L6	L8 x L7
L7	Clark^{8} x Blackhawk
L8	Clark^{6} x L49-4091
L11	(Clark^{6} x T201) x (Clark^{6} x T145)
L12	L6 x L11
L15	Wayne^{6} x Clark 63; Wayne isoline with Rps$_1$
L71-2855	Beeson x SL12
L49-4091	(Lincoln^{2} x Richland) x (Lincoln x CNS)
L57-0034	Clark x Adams
L62-361	Harosoy^{6} x T117
L62-1926	Clark^{6} x PI 86.024 (Clark e$_2$ isoline)
L63-1397	Harosoy^{6} x PI 80837 (1Dt$_2$)
L65-1342	Wayne^{2} x L62-1926
L66-1359	Wayne x L57-0034
L66L-137	Wayne x L57-0034
L66L-140	Wayne x L57-0034
L66L-144	Wayne x L57-0034
L66L-154	Wayne x L57-0034
L69U40-16-4	Calland x Amsoy
L70L-3048	L15 x D64-3146
L70T-543G	L15 x Amsoy 71
L71-2855	Beeson x SL12
L72-844c-1	Unknown
L72U-2567	Williams x Ransom
L73-4673	Corsoy x L66L-154
L73-6084	(Wayne Rps) x Amsoy 71

IDENTIFICATION OF PARENT STRAINS (CONT.)

Strain	Parentage
L73-6356	Unknown
L73U-632	Miller 67 x L66L-140
L74-3897	Williams x Beeson
L74D 200	Miller 67 x L66L-140
L74D-619	Williams x Ransom
L74D-678	Amsoy 71 x Ransom
L75-0570	Wells[6] x T259 (Illinois Male Sterile)
L75-3632	Corsoy[6] x Lee
Land o'Lakes LL4404	Amsoy 71 x Pike Rps1
M10	Lincoln[2] x Richland
M53-43	M10 x PI 180.501
M53-117	M10 x PI 180.501
M53-183	M10 x PI 194.633
M54-12	Capital x Renville
M54-110	Harosoy x Norchief
M54-120	Unknown
M54-139	Renville x Capital
M54-240	(Lincoln[2] x Richland) x Korean
M55-19	Pagoda 17 x Hardome
M58-14	M53-183 x Chippewa
M59-120	M54-240 x M54-139
M60-406	Blackhawk x Harosoy
M61-20	Merit x Comet
M61-65	Merit x M55-19
M62-93	Merit x M54-110
M62-173	M387 x M406
M62-263	Grant x M319W
M63-87	Chippewa 64 x PI 261.475
M63-158	Unknown
M63-217Y	Corsoy x M53-117
M64-3	Traverse x JA45
M65-69	M54-12 x Corsoy
M65-227	057-2921 x JA42
M65-442	Anoka x Amsoy

IDENTIFICATION OF PARENT STRAINS (CONT.)

Strain	Parentage
M66-18	Clay x Altona
M66-30	Magna x M61-20
M67-42	Corsoy x Provar
M67-141	Unknown
M68-49-26	Evans x M54-120
M68-126	M61-65 x M54-120
M68-201	Evans x Steele
M68-256	Evans x Steele
M68-333	M60-406 x Beeson
M69-36	Merit x Corsoy
M69-42	M63-158 (Bf) x Provar
M69-122	(JA53-1 x Hark) x (M59-120 x Amsoy 71)
M69-264	M60-406[2] x N.L. Wayne
M69-305	M62-93 x Lee
M70-9	M64-3 x Amsoy 71
M70-70	Evans x PI 291.322
M70-74	M62-93 x M58-14
M70-127	Evans x M63-217Y
M70-128	Evans x M63-217Y
M70-184	Steele x (Evans x Lee)
M70-187	Merit x SS65-5702
M70-294	JA53-7-6 x M63-217Y
M70-417	M64-3 x M63-217Y
M70-447	Provar x M53-43
M70-484	M63-87 x M53-43
M70-504	M63-87 x PI 189.880
M71-77	Merit x M62-263
M75-2	Hodgson[4] x [M67-141 x (Chippewa x Higan)]
M319W	Lincoln x Hawkey
M387	Renville x Capital
M406	Harosoy x Norchief
Md70-2221-71	3rd cycle of 8-line intermating
Merchman Washington V	Unknown
Migro HP20.20	Hark x Rampage

IDENTIFICATION OF PARENT STRAINS (CONT.)

Strain	Parentage
Migro HP2530	L15 x C1431
Miller 67	Unknown
NAPB Ex 4380	C1426 x Marshall
NAPB Ex 9649	IVR 1120 x Beeson
NK S1492	Corsoy x Wayne
NKG S1346	A5-5629-4 x PI 257.435
057-2921	Blackhawk x Capital
Peterson 85	Provar x (Amsoy x PI 248.404)
Peterson 1677	Unknown
Peterson Px20	Unknown
Pride B-216	Corsoy x Wayne
PRX12-305	PI 84.637 x PI 86.972-1
R79	Introduction from USSR (J. W. Lambert)
S78-5078	Unknown
SL9	$Wayne^{10}$ x Kanrich
SL12	[L15 x ($Wayne^{4}$ x L11)] x SL9
SRF 150	Unknown
SRF 350	Unknown
SS65-5702	Clark x ($Scott^{2}$ x Peking)
Tri-Valley Charger	IVR 1120 x Calland
U10917	C1253 x Wayne
U37219	C1430 x Calland
V68-1034	York x PI 71.506
231-4-5-1	(Merit x CM145) x (M62-173 x 827-4)
554-10	$Hodgson^{4}$ x Merit
840-7-3	from Sven A. Holmberg, Sweden

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Strain	Parentage	Previous Testing*	Generation Composited
Bicentennial (OAC81-2)	Harosoy 63 x Fiskeby V	2	F_7
Chico	[Evans x (Merit x Lee) x (M65-69 x M65-227)]	1	F_5
Clay (0)	Capital x Renville	8	F_5
Maple Amber	840-7-3 x (Harosoy 63 x Altona)	5	F_6
Maple Ridge (0T80-12Y)	Fiskeby III x Evans	2	F_5
McCall (00)	(Acme x Chippewa) x Hark	12	F_5
M81-88	M68-333 x McCall	-	F_5
M81-411	L75-0570 x McCall	-	F_5
ND851	(BD21115 x SRF150) x (Merit x Anoka)	-	F_5
0T84-4	$Evans^3 ⊖^3$ x 840-7-3	-	F_5
0T84-7	231-4-5-1 x McCall	-	F_5
0T84-12	BD22115-13/Premier	-	F_5

* Number of years in test or name of 1984 test.

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score		Emergence Score	Shattering Score	BSR Ames	
		Ames	Crookston	Ames	Manhattan	Plant N %	Stem N %
Bicentennial (OAC81-2)	PTSYBr I	4.8	4.8	1	1.0	100	61.1
Chico	WGBSYBf I	3.7	3.8	3	1.0	-	-
Clay (0)	PGBSYY I	3.3	3.5	1	1.0	70	35.6
Maple Amber	PTBDYBr I	4.7	5.0	2	1.0	60	22.0
Maple Ridge (0T80-12Y)	PTBSYY I	2.5	3.5	3	1.0	-	-
McCall (00)	PGTDYY I	2.8	4.0	2	1.0	70	34.2
M81-88	P+WGTSYBf I	3.2	2.5	2	1.0	50	31.0
M81-411	PGTDYY I	2.8	3.0	2	1.0	50	18.4
ND851	PTBDYY I	3.2	3.2	2	1.0	60	31.9
0T84-4	WGBDYY I	3.0	2.2	2	1.0	30	5.5
0T84-7	PGBDYY I	2.0	2.0	1	1.0	70	30.5
0T84-12	PTBDYY I	4.3	4.0	2	1.0	70	30.7

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DISEASE DATA

Strain	BTS	PR		PS	PSB	SMV	Germ
	Ames	Ames	Lafayette		Lafayette		
	a	Race4	Race1	a	n	a	
	Score	--- Reaction ---		%	%	Score	%
Bicentennial (0AC81-2)	3	R	R	28	7	5E	85
Chico	2	S	R	11	2	2M	85
Clay (0)	4	S	S	39	6	2E	77
Maple Amber	2	R	R	24	4	5E	85
Maple Ridge (0T80-12Y)	2	S	S	28	2	5E	92
McCall (00)	4	S	S	29	4	2M	83
M81-88	3	R	H	57	2	2M	77
M81-411	4	S	R	38	1	3E	88
ND851	3	R	R	28	4	3E	94
0T84-4	3	S	R	31	0	1	83
0T84-7	4	S	R	42	0	2E	89
0T84-12	3	S	S	35	12	4E	61

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Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	8	8	8	8	8	8	8	4	4
	bu/a	No.	Date	Score	In	Score	g/100	%	%
Bicentennial	33.7	5	+5.7	1.6	30	2.2	19.5	40.5	18.9
Chico	27.8	12	+12.3	1.8	30	3.0	10.1	43.3	17.2
Clay (0)	30.1	11	+9.4	1.5	27	2.6	15.5	41.0	18.2
Maple Amber	33.6	6	-3.9	1.4	27	1.7	16.5	40.8	19.6
Maple Ridge	32.1	8	-4.5	1.3	25	1.9	15.4	40.5	18.3
McCall (00)	35.2	2	9-18.3	1.4	28	2.0	14.9	40.3	18.2
M81-88	31.3	10	+7.5	1.3	29	2.4	16.4	43.5	17.9
M81-411	33.3	7	+6.9	1.5	30	2.4	15.7	42.3	17.5
ND851	32.0	9	+6.5	1.3	30	2.1	16.5	40.5	19.1
0T84-4	34.8	3	-0.8	1.4	28	1.8	14.3	41.4	18.4
0T84-7	34.6	4	-1.2	1.2	25	2.4	15.1	40.3	18.9
0T84-12	37.7	1	+5.2	1.4	28	2.5	19.0	41.5	19.3

* 116 Days After Planting

UNIFORM TEST 00, 1985

1984-1985, 2-YEAR MEAN

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	15	15	15	15	15	15	15	8	8
	bu/a	No.	Date	Score	In	Score	g/100	%	%
Bicentennial	35.4	2	+5.7	1.9	30	2.2	19.8	40.6	20.0
Chico	30.6	6	+9.1	1.7	29	2.5	11.3	41.8	19.0
Clay (0)	32.8	4	+7.6	1.6	26	2.3	15.7	40.6	20.0
Maple Amber	32.9	3	-3.3	1.4	26	1.9	16.5	40.3	21.4
Maple Ridge	31.7	5	-4.7	1.2	23	1.8	15.2	39.7	19.8
McCall (00)	36.3	1	9-14.1*	1.4	27	2.0	14.9	39.4	19.8

* 115 Days After Planting

1983-1985, 3-YEAR MEAN

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	23	23	23	23	23	23	23	13	13
	bu/a	No.	Date	Score	In	Score	g/100	%	%
Bicentennial	34.4	2	+5.7	1.8	29	2.2	19.8	41.3	20.4
Clay (0)	32.4	3	+6.1	1.6	25	2.3	16.1	40.9	20.4
Maple Amber	30.7	4	-3.8	1.4	25	2.0	16.6	40.8	21.5
Maple Ridge	30.3	5	-6.1	1.2	22	2.0	15.3	40.2	20.3
McCall (00)	35.1	1	9-11.9*	1.4	26	2.1	15.0	39.9	20.1

* 114 Days After Planting

The highest yielding strain in 1985 was 0T84-12. Two photoperiod insensitive strains, 0T84-4 and 0T84-7 also performed well in the 1985 test. McCall continued to have the highest 2-year and 3-year mean yield.

UNIFORM TEST 00, 1985

YIELD (bu/a)

Strain	Mean 8 Tests	Chatham MI	Crookston MN	Morris MN	Rosemount MN	Fargo ND	Elora ONT	Ottawa ONT	Ashland WI
Bicentennial	33.7	27.3	20.4	45.9	39.5	39.6	38.7	31.8	25.7
Chico	27.8	11.5	11.3	47.9	42.4	35.1	30.0	27.4	16.2
Clay (0)	30.1	15.8	23.7	53.0	35.2	41.6	23.6	27.5	20.4
Maple Amber	33.6	26.0	36.1	44.5	40.3	38.6	29.6	25.7	27.8
Maple Ridge	32.1	22.3	34.9	39.2	35.5	38.0	31.1	27.1	28.3
McCall (00)	35.2	26.0	33.8	49.3	38.4	42.9	34.8	29.8	26.4
M81-88	31.3	18.5	25.7	42.9	42.7	39.9	32.1	27.3	21.2
M81-411	33.3	22.5	24.7	51.0	42.5	40.7	33.2	28.1	23.5
ND851	32.0	23.0	30.4	39.0	38.7	40.5	28.6	31.0	24.4
0T84-4	34.8	25.8	41.0	48.2	41.7	34.2	35.8	29.6	21.6
0T84-7	34.6	24.0	38.4	46.8	39.2	39.7	29.9	30.9	27.6
0T84-12	37.7	32.8	27.1	55.7	48.6	40.0	37.0	30.5	29.3
C.V. (%)		10.1	9.9	7.1	12.7	9.2	9.7	10.1	11.9
L.S.D. (5%)		3.3	4.1	5.6	8.7	6.1	4.3	4.1	4.8
Row Sp. (In.)		9	12	10	10	12	15	16	24
Rows/Plot		5	8	10	10	4	4	4	4
Reps		4	4	3	3	3	4	4	3

YIELD RANK

Strain	Yield Rank	Chatham MI	Crookston MN	Morris MN	Rosemount MN	Fargo ND	Elora ONT	Ottawa ONT	Ashland WI
Bicentennial	5	2	11	8	7	8	1	1	7
Chico	12	12	12	6	4	11	8	9	12
Clay (0)	11	11	10	2	12	2	12	8	11
Maple Amber	6	3	3	9	6	9	10	12	3
Maple Ridge	8	9	4	11	11	10	7	11	2
McCall (00)	2	3	5	4	10	1	4	5	5
M81-88	10	10	8	10	2	6	6	10	10
M81-411	7	8	9	3	3	3	5	7	9
ND851	9	7	6	12	9	4	11	2	8
0T84-4	3	5	1	5	5	12	3	6	6
0T84-7	4	6	2	7	8	7	9	3	4
0T84-12	1	1	7	1	1	5	2	4	1

UNIFORM TEST 00, 1985

MATURITY (Date)

Strain	Mean 8 Tests	Chatham MI	Crookston MN	Morris MN	Rosemount MN	Fargo ND	Elora ONT	Ottawa ONT	Ashland WI
Bicentennial	+5.7	+5	+6	+8	+5	+8	+6	+4	+3
Chico	+12.3	+25	+5	+7	+3	+12	+14	+14	+18
Clay (0)	+9.4	+12	+5	+10	+3	+12	+12	+11	+10
Maple Amber	-3.9	-1	-8	-1	-1	-2	-3	-9	-6
Maple Ridge	-4.5	-3	-8	+2	-3	0	-6	-13	-5
McCall (00)	9-18.3	9-15	9-24	9-11	9-11	9-11	9-23	9-23	9-23
M81-88	+7.5	+11	+2	+12	+3	+3	+15	+11	+3
M81-411	+6.9	+12	+8	+8	+4	+2	+7	+12	+2
ND851	+6.5	+10	+1	+9	+6	+12	+8	+4	+2
0T84-4	-0.8	+11	-6	0	-3	-2	-4	-7	0
0T84-7	-1.2	+10	-7	0	-1	+4	-4	-8	-3
0T84-12	+5.2	+2	+6	+9	+5	+12	+2	+3	+2
Date Planted	5-25	6-3	5-22	5-20	5-22	5-23	5-29	5-30	5-22
Days to Mature	116	104	125	114	112	111	117	116	129

LODGING (Score)

Strain	Mean 8 Tests	Chatham MI	Crookston MN	Morris MN	Rosemount MN	Fargo ND	Elora ONT	Ottawa ONT	Ashland WI
Bicentennial	1.6	1.5	1.0	1.3	2.0	1.0	1.0	1.0	3.7
Chico	1.8	1.6	1.8	1.3	2.7	2.0	1.0	1.0	3.0
Clay (0)	1.5	1.7	1.8	1.0	1.7	2.0	1.0	1.0	1.7
Maple Amber	1.4	1.0	1.3	1.0	1.7	2.0	1.0	1.0	2.0
Maple Ridge	1.3	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.7
McCall (00)	1.4	1.1	1.0	1.3	2.0	2.0	1.0	1.0	1.7
M81-88	1.3	1.1	1.0	1.7	1.0	2.0	1.0	1.0	1.0
M81-411	1.5	1.2	1.3	1.7	1.7	2.0	1.0	1.0	1.7
ND851	1.3	1.1	1.0	1.3	2.0	1.0	1.0	1.0	1.3
0T84-4	1.4	1.1	2.0	1.0	2.0	1.0	1.0	1.0	2.0
0T84-7	1.2	1.0	1.0	1.3	1.3	1.0	1.0	1.0	1.7
0T84-12	1.4	1.0	1.3	1.3	1.7	2.0	1.0	1.0	1.7

UNIFORM TEST 00, 1985

PLANT HEIGHT (Inches)

Strain	Mean 8 Tests	Chatham MI	Crookston MN	Morris MN	Rosemount MN	Fargo ND	Elora ONT	Ottawa ONT	Ashland WI
Bicentennial	30	18	35	33	32	29	27	32	30
Chico	30	19	38	33	32	30	25	30	32
Clay (0)	27	15	33	32	27	27	23	27	27
Maple Amber	27	17	29	28	32	23	25	29	28
Maple Ridge	25	15	32	28	24	22	22	26	27
McCall (00)	28	16	32	32	28	29	24	30	26
M81-88	29	19	32	36	31	27	26	32	27
M81-411	30	17	35	31	34	33	28	29	28
ND851	30	18	32	33	36	29	26	33	29
OT84-4	28	18	32	28	35	22	25	32	27
OT84-7	25	14	27	28	29	20	24	30	26
OT84-12	28	17	32	30	31	26	24	30	28

SEED QUALITY (Score)

Strain	Mean 8 Tests	Chatham MI	Crookston MN	Morris MN	Rosemount MN	Fargo ND	Elora ONT	Ottawa ONT	Ashland WI
Bicentennial	2.2	1.5	3.7	1.3	1.7	1.0	2.5	1.4	4.0
Chico	3.0	5.0	4.7	1.3	1.7	1.0	3.5	1.8	5.0
Clay (0)	2.6	3.0	3.3	1.3	1.7	1.0	3.0	1.9	5.0
Maple Amber	1.7	1.4	1.7	1.0	1.7	1.0	2.0	1.8	3.0
Maple Ridge	1.9	1.5	2.3	1.7	2.0	1.0	2.0	1.3	3.0
McCall (00)	2.0	2.2	1.7	1.3	2.0	1.0	2.5	2.1	3.0
M81-88	2.4	2.3	2.7	2.3	3.0	1.0	2.5	1.8	3.0
M81-411	2.4	3.1	3.0	2.0	1.7	1.0	2.5	1.6	4.0
ND851	2.1	1.9	2.3	2.0	1.3	1.0	3.0	1.0	4.0
OT84-4	1.8	2.3	1.7	2.0	2.0	1.0	2.0	1.1	2.0
OT84-7	2.4	2.0	1.3	2.0	2.3	3.0	3.0	1.9	3.0
OT84-12	2.5	2.1	3.3	2.0	2.0	2.0	3.5	1.5	3.0

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SEED SIZE (g/100)

Strain	Mean 8 Tests	Chatham MI	Crookston MN	Morris MN	Rosemount MN	Fargo ND	Elora ONT	Ottawa ONT	Ashland WI
Bicentennial	19.5	18.8	16.8	19.2	18.2	20.6	21.1	20.3	20.4
Chico	10.1	6.5	4.9	11.2	10.7	9.5	12.9	13.6	11.2
Clay (0)	15.5	14.8	13.0	16.7	15.5	14.5	16.8	17.9	14.8
Maple Amber	16.5	16.0	14.6	17.8	14.7	17.3	17.8	17.0	16.8
Maple Ridge	15.4	15.7	13.6	17.0	14.7	15.4	16.2	14.8	15.4
McCall (00)	14.9	13.6	12.5	14.5	17.4	13.1	16.7	16.3	15.1
M81-88	16.4	15.2	13.9	16.8	16.6	16.0	19.0	17.9	15.7
M81-411	15.7	14.8	13.4	16.1	15.2	14.5	16.8	18.9	15.7
ND851	16.5	16.1	14.9	15.9	16.2	17.5	16.5	17.1	17.3
0T84-4	14.3	15.1	12.8	15.7	15.3	14.0	12.8	14.4	14.0
0T84-7	15.1	15.1	13.9	15.4	15.2	15.8	15.1	15.3	14.4
0T84-7	19.0	19.0	17.9	19.4	18.5	18.3	19.4	20.1	18.9

PROTEIN (%)

Strain	Mean 4 Tests	Crookston MN	Rosemount MN	Ottawa ONT	Madison WI
Bicentennial	40.5	38.4	40.6	42.4	40.5
Chico	43.5	41.8	42.8	43.1	45.4
Clay (0)	41.0	38.9	40.6	41.2	43.0
Maple Amber	40.8	37.1	40.0	43.7	42.3
Maple Ridge	40.5	37.7	40.2	43.1	40.7
McCall (00)	40.3	39.2	39.8	40.4	41.6
M81-88	43.5	42.4	42.1	44.1	45.1
M81-411	42.3	41.5	41.5	42.6	43.6
ND851	40.5	39.8	39.8	41.2	40.9
0T84-4	41.4	40.7	40.8	41.7	42.2
0T84-7	40.3	38.6	40.3	41.0	41.3
0T84-12	41.5	39.7	41.6	43.0	41.4

OIL (%)

Bicentennial	18.9	19.2	19.3	17.8	19.1
Chico	17.2	17.8	18.5	16.6	15.9
Clay (0)	18.2	17.8	19.5	18.0	17.2
Maple Amber	19.6	19.9	20.9	17.9	19.4
Maple Ridge	18.3	18.9	19.4	16.8	18.1
McCall (00)	18.2	17.6	19.3	17.5	18.3
M81-88	17.9	17.1	19.3	17.3	17.6
M81-411	17.5	16.4	19.4	17.0	17.0
ND851	19.1	18.3	20.7	18.3	18.9
0T84-4	18.4	17.8	19.7	17.8	18.3
0T84-7	18.9	19.0	20.0	18.0	18.3
0T84-12	19.3	19.9	20.0	18.1	19.1

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Strain	Parentage	Previous Testing	Generation Composited
Dawson	Evans x M63-217Y	4	F_5
Evans (0)	Merit x Harosoy	15	F_5
Hodgson 78 (I)	Hodgson[7] x Merit	8	BC_8F_3
McCall (00)	(Acme x Chippewa) x Hark	5	F_5
M74-12	Evans x Peterson 85	-	F_5
M75-25	Evans x M66-18	3	F_5
M76-50	M68-49-26 x McCall	2	F_5
M77-22	M68-49-26 x M68-126	1	F_5
M77-251	M70-504 x M69-42	-	F_5
M77-252	M70-504 x M69-42	1	F_5
M81-7	Evans x M67-42	-	F_5
M81-8	Swift x Hodgson 78	-	F_5
M81-18	Evans x M65-442	-	F_5
M81-27	M68-49-26 x M70-294	-	F_5
M81-32	M69-264 x M69-305	-	F_5
M81-35	M70-70 x M66-30	-	F_5
M81-38	M70-74 x M70-184	-	F_5
M81-43	M70-417 x M69-122	-	F_5
M81-70	Evans x Maple Arrow	-	F_5
M81-76	M68-49-26 x M70-184	-	F_5
M81-98	M70-9 x M68-201	-	F_5
M81-99	M70-9 x M68-201	-	F_5
M81-296	M68-49-26 x Peterson 1677	-	F_5
M81-301	M68-49-26 x Peterson 1677	-	F_5
M81-497	M70-187 x M70-127	-	F_5
M81-571	M70-484 x Dawson	-	F_5
M81-579	M70-187 x Dawson	-	F_5
M81-605	Dawson x M70-447	-	F_5
M82-1068	Evans x R79	-	F_4
ND852	Wilkin x L62-361	-	F_5
ND853	Wilkin x L62-361	-	F_5
ND854	(BD21115 x SRF150) x (Merit x Anoka)	-	F_5
ND855	Wilkin x L62-361	-	F_5
OAC82-07 *Libra*	[FH31-3 (Fiskeby x Harosoy)[5]] x [FH21-2 (Fiskeby x Harosoy)[5]]	-	F_6
OT83-4	Maple Arrow x Harcor	1	F_4
OT84-14	Maple Arrow x Wayne	-	F_5

UNIFORM TEST 0, 1985

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score		Emergence Score	Shattering Score	BSR Ames Plant N %	BSR Ames Stem N %
			Ames	Rosemount	Ames	Manhattan		
Dawson	PGBDYY	I	1.7	2.2	1	1.0	90	54.6
Evans (0)	WGBDYY	I	2.5	2.8	1	1.0	100	57.4
Hodgson 78 (I)	PGBDYBf	I	3.3	2.2	5	1.0	100	40.9
McCall (00)	PGTDYY	I	2.8	4.0	2	1.0	90	48.9
M74-12	PGTDYIb	I	3.7	4.0	1	1.0	100	57.5
M75-25	PGTDYY	I	2.3	3.5	3	1.0	100	76.9
M76-50	WGBDYY	I	2.7	4.0	5	1.0	100	69.0
M77-22	WGBDYY	I	3.0	3.5	1	1.0	100	51.0
M77-251	PGBDYY	I	3.8	4.5	4	1.0	100	57.4
M77-252	PGBDYBf	I	3.8	4.0	5	1.0	100	64.8
M81-7	WGBDYY	I	3.0	3.5	2	1.0	100	72.9
M81-8	PGBDYIb	I	3.3	3.0	2	1.0	100	52.0
M81-18	PGBDYY	I	3.8	3.0	2	1.0	80	39.2
M81-27	WGBDYY	I	2.8	2.2	1	1.0	100	46.0
M81-32	PGBDYY	I	3.3	3.2	3	1.0	90	33.6
M81-35	WGBDYY	I	3.0	2.5	2	1.0	100	50.6
M81-38	WGTDYY	I	4.0	4.0	4	1.0	100	57.1
M81-43	WGBD+SYY+Bf	I	2.7	3.0	3	1.0	100	53.1
M81-70	P+WGBDYBf+Ib	I	3.8	3.5	2	1.0	100	54.1
M81-76	PGBDYY	I	3.3	3.8	3	1.0	100	59.8
M81-98	WGTDYY	I	3.8	3.8	3	1.0	90	44.7
M81-99	PGBSYY	I	2.7	3.5	2	1.0	100	38.4
M81-296	WGBDYY	I	2.7	3.5	2	1.0	100	50.7
M81-301	PGBDYY	I	3.3	4.8	3	1.0	100	44.7
M81-497	PGBDYY+Gr	I	3.2	3.5	2	1.0	100	65.7
M81-571	WGBDYY	I	2.2	2.8	2	1.0	100	72.5
M81-579	WGBDYY	I	2.3	3.0	2	1.0	100	64.1
M81-605	PGBDYY	I	3.0	3.0	3	1.0	100	73.0
M82-1068	WG+TBDYGr	I	2.3	2.0	2	1.0	100	80.2
ND852	PTBDYBr	I	5.0	5.0	2	1.0	100	93.0
ND853	PTBDYGr	I	5.0	5.0	3	1.0	100	89.4
ND854	PTBDYY	I	3.7	3.8	4	1.0	100	87.6
ND855	WGBDYY	I	3.2	3.5	2	1.0	100	96.1
OAC82-07	WTBDYBl	I	3.3	3.5	1	1.0	100	76.8
OT83-4	WTBSYBl+Br	I	4.0	3.8	1	1.0	100	86.9
OT84-14	PGBSYBf	I	3.8	3.2	3	1.0	100	74.7

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DISEASE DATA

Strain	BTS	PR		PS	PSB	SMV
	Ames	Ames	Lafayette		Lafayette	
	a Score	Race4 ---- Reaction ----	Race1	a %	n %	a Score
Dawson	3	S	R	40	8	1
Evans (0)	3	S	R	52	10	1
Hodgson 78 (I)	4	S	R	75	16	2E
McCall (00)	4	S	S	29	4	2M
M74-12	3	S	R	73	9	2E
M75-25	4	R	R	29	6	1
M76-50	5	S	R	38	9	2E
M77-22	4	S	R	43	5	1
M77-251	5	S	S	69	15	4M
M77-252	4	S	S	75	29	5M
M81-7	3	S	R	36	6	3E
M81-8	3	S	R	40	11	3E
M81-18	3	H	R	41	6	1
M81-27	5	S	R	33	15	1
M81-32	3	S	R	32	4	1
M81-35	3	S	R	24	17	2E
M81-38	4	S	R	38	13	5M
M81-43	4	S	R	29	3	1
M81-70	3	R	R	43	9	2E
M81-76	4	S	R	49	15	1
M81-98	3	S	H	46	34	3M
M81-99	4	R	R	40	6	4M
M81-296	4	S	H	42	4	3M
M81-301	5	S	R	48	8	2E
M81-497	3	S	R	34	25	1
M81-571	3	S	R	39	12	1
M81-579	3	S	R	44	2	1
M81-605	3	S	R	39	5	2M
M82-1068	3	S	H	37	7	1
ND852	3	S	R	27	12	2M
ND853	4	S	R	60	18	2M
ND854	3	R	R	45	13	5M
ND855	3	S	R	24	13	1
OAC82-07	3	S	R	38	7	3E
OT83-4	3	R	R	30	0	2M
OT84-14	2	R	R	56	2	3M

UNIFORM TEST 0, 1985

Regional Summary

Strain No. of Tests	Yield 9 bu/a	Rank 9 No.	Maturity 8 Date	Lodging 9 Score	Plant Height 9 In	Seed Quality 8 Score	Seed Size 9 g/100	Composition Protein 4 %	Oil 4 %
Dawson	38.5	12	-0.4	1.6	29	1.5	16.1	40.4	19.0
Evans (0)	39.0	9	9-25.8	1.5	31	1.8	17.5	39.7	19.6
Hodgson 78 (I)	39.5	4	+7.0	1.8	34	1.9	17.8	39.9	19.2
McCall (00)	32.9	34	-12.8	1.5	26	2.0	15.7	39.8	18.7
M74-12	38.7	11	-0.1	1.3	27	2.0	18.5	41.3	18.7
M75-25	39.2	7	+4.8	1.4	28	1.9	18.2	40.9	19.2
M76-50	29.7	36	+1.5	1.4	24	2.1	19.5	38.5	21.0
M77-22	37.3	17	+3.8	1.7	30	1.8	17.7	38.8	19.4
M77-251	32.1	35	-1.6	1.4	25	1.7	19.4	45.6	16.5
M77-252	34.8	30	+0.5	1.7	27	2.0	19.8	45.3	16.1
M81-7	36.6	23	-1.0	1.5	30	2.0	20.0	41.9	18.6
M81-8	34.8	30	-1.5	1.7	31	2.0	15.4	39.2	19.4
M81-18	40.4	1	-4.9	1.2	27	1.6	17.1	38.2	20.0
M81-27	39.5	4	+3.0	1.4	29	1.7	17.6	39.6	19.5
M81-32	38.5	12	+4.1	1.6	30	1.8	17.1	42.0	18.1
M81-35	34.7	32	-2.9	1.3	29	2.3	21.2	42.1	18.5
M81-38	38.0	16	+3.5	1.3	29	1.7	18.0	41.1	19.4
M81-43	37.2	18	+1.3	1.4	29	1.7	18.2	39.4	19.4
M81-70	39.0	9	+3.8	2.2	34	1.5	18.6	40.0	19.8
M81-76	39.5	4	+1.8	1.6	30	1.8	21.2	41.4	19.4
M81-98	39.7	2	+4.3	1.4	30	2.3	16.4	39.2	20.2
M81-99	36.7	21	+0.9	1.3	30	1.8	17.4	40.7	19.8
M81-296	36.2	24	+4.3	1.5	30	1.8	16.2	40.9	18.5
M81-301	36.2	24	+6.4	1.5	29	2.1	17.1	38.9	19.0
M81-497	36.2	24	+4.1	1.7	31	1.8	18.3	39.8	18.5
M81-571	39.6	3	+2.4	1.7	30	1.7	16.3	39.4	19.5
M81-579	38.5	12	+2.1	1.6	30	1.7	16.9	40.1	19.3
M81-605	36.7	21	+3.4	1.8	31	1.6	17.6	42.4	18.7
M82-1068	36.8	20	+6.9	2.6	35	2.7	16.1	40.3	19.1
ND852	36.9	19	+2.6	2.0	32	1.6	18.2	42.6	18.5
ND853	34.5	33	+4.8	2.2	32	2.3	21.6	42.6	18.9
ND854	35.0	29	+6.0	1.7	32	2.8	19.3	40.0	18.9
ND855	35.5	28	+4.9	1.8	34	1.7	19.1	41.2	18.0
OAC82-07 Libra	38.2	15	-1.5	1.7	31	2.1	17.7	38.6	20.0
OT83-4	36.1	27	+0.3	1.8	32	1.6	15.9	40.6	19.2
OT84-14	39.1	8	-2.4	1.6	30	1.5	18.6	40.7	19.7

* 132 Days After Planting

UNIFORM TEST 0, 1985

1984-1985 2-YEAR MEAN

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	17	17	16	17	17	16	17	9	9
	bu/a	No.	Date	Score	In	Score	g/100	%	%
Dawson	39.0	3	-0.2	1.6	29	1.6	15.8	39.3	20.6
Evans (0)	38.3	5	9-23.2*	1.5	30	1.6	16.9	39.5	21.2
Hodgson 78 (I)	40.7	1	+6.4	1.8	34	1.8	17.1	39.3	20.4
McCall (00)	32.9	8	-10.6	1.5	26	1.9	15.5	39.5	19.8
M75-25	38.6	4	+4.4	1.4	27	1.8	17.6	40.3	20.4
M76-50	32.6	9	+1.7	1.4	24	2.0	19.1	38.2	22.6
M77-22	38.2	6	+4.0	1.7	29	1.7	17.4	39.4	20.7
M77-252	34.9	7	+1.2	1.7	27	1.8	18.8	44.1	17.7
OT83-4	39.3	2	+0.6	1.7	31	1.5	18.2	42.0	19.0

* 127 Days After Planting

1983-1985 3-YEAR MEAN

No. of Tests	25	25	24	25	25	24	25	14	14
Dawson	39.3	2	+0.7	1.7	30	1.6	15.8	39.7	21.1
Evans (0)	38.2	4	9-19.9*	1.4	30	1.7	16.4	39.9	21.5
Hodgson 78 (I)	40.5	1	+7.0	1.8	34	1.8	16.9	39.7	21.0
McCall (00)	32.6	6	-10.4	1.4	26	2.0	15.0	39.8	20.2
M75-25	38.9	3	+4.1	1.4	28	1.8	17.2	40.7	20.8
M76-50	34.2	5	+0.1	1.3	24	2.0	18.8	38.7	22.9

* 124 Days After Planting

1982-1985 4-YEAR MEAN

No. of Tests	33	33	32	33	32	31	33	20	20
Dawson	38.6	1	0.0	1.7	30	1.8	15.4	39.4	20.2
Evans (0)	37.8	4	9-21.0	1.6	31	1.7	16.0	39.6	20.6
Hodgson 78 (I)	38.6	1	+7.0	1.9	35	1.9	16.6	39.4	19.9
McCall (00)	32.0	5	-11.0	1.4	26	2.0	14.6	39.4	19.6
M75-25	38.3	3	+4.4	1.5	29	1.9	16.8	40.3	19.8

* 124 Days After Planting

The strains M77-251 and M77-252 both had seed protein contents in excess of 45 percent. The strains ND852 and ND853 showed severe iron chlorosis in tests at Ames, Iowa and Rosemount, Minnesota.

UNIFORM TEST 0, 1985

YIELD (bu/a)

Strain	Mean 9 Tests	Bad Axe MI	Morris MN	Rosemount MN	Fargo ND
Dawson	38.5	40.7	48.6	44.5	38.7
Evans (0)	39.0	39.5	47.8	48.2	42.4
Hodgson 78 (I)	39.5	41.6	44.0	45.1	36.6
McCall (00)	32.9	28.2	42.4	36.8	37.9
M74-12	38.7	43.3	47.6	45.4	43.4
M75-25	39.2	41.3	44.3	40.8	41.9
M76-50	29.7	23.6	34.4	45.2	36.7
M77-22	37.3	37.0	40.8	43.2	41.7
M77-251	32.1	32.7	36.9	38.3	34.9
M77-252	34.8	32.8	36.9	39.6	43.9
M81-7	36.6	40.3	41.1	43.9	41.4
M81-8	34.8	33.4	40.3	40.0	40.9
M81-18	40.4	42.8	49.3	50.4	47.3
M81-27	39.5	36.3	48.7	46.7	42.0
M81-32	38.5	39.5	44.6	47.3	42.7
M81-35	34.7	31.4	41.0	38.2	40.9
M81-38	38.0	37.0	42.9	48.7	46.8
M81-43	37.2	37.6	47.2	42.8	39.0
M81-70	39.0	42.3	39.8	41.6	39.6
M81-76	39.5	38.4	50.5	48.6	43.9
M81-98	39.7	33.2	47.7	46.4	46.5
M81-99	36.7	32.9	43.6	41.6	44.3
M81-296	36.2	36.2	42.8	42.3	36.9
M81-301	36.2	36.7	44.1	46.2	40.4
M81-497	36.2	40.0	42.2	44.2	40.3
M81-571	39.6	44.5	45.5	48.6	44.1
M81-579	38.5	39.1	43.4	45.3	41.2
M81-605	36.7	37.3	38.3	40.6	33.6
M82-1068	36.8	42.6	45.4	45.9	32.4
ND852	36.9	38.4	37.3	41.2	39.2
ND853	34.5	39.4	33.8	42.0	39.8
ND854	35.0	36.3	37.0	39.4	42.2
ND855	35.5	38.3	39.7	35.9	39.4
OAC82-07	38.2	40.7	49.7	44.3	36.3
OT83-4	36.1	40.0	36.9	38.7	42.3
OT84-14	39.1	40.5	46.0	43.2	39.7
C.V. (%)		8.9	9.0	8.8	11.2
L.S.D. (5%)		4.7	6.3	6.2	7.3
Row Sp. (In.)		20	10	10	12
Rows/Plot		4	10	10	4
Reps		4	3	3	3

UNIFORM TEST 0, 1985

YIELD (bu/a)

Strain	Elora ONT	Ottawa ONT	Smithfield ONT	Wilmot SD	Spooner WI
Dawson	32.0	41.4	31.1	38.0	31.3
Evans (0)	34.7	41.9	34.8	32.6	29.0
Hodgson 78 (I)	37.9	39.7	41.6	36.6	32.0
McCall (00)	30.4	43.3	30.2	23.8	23.0
M74-12	30.0	45.1	29.4	36.4	27.3
M75-25	39.7	39.2	38.4	35.0	32.5
M76-50	20.2	35.0	20.7	25.1	26.5
M77-22	35.6	39.7	28.2	38.3	31.5
M77-251	27.9	36.7	26.9	26.8	28.0
M77-252	33.5	37.4	26.6	31.0	31.6
M81-7	32.4	41.1	28.2	30.9	29.9
M81-8	29.4	38.0	30.2	31.2	29.5
M81-18	35.3	42.5	30.8	35.6	30.0
M81-27	30.7	38.8	36.5	39.6	36.2
M81-32	29.3	42.6	32.8	34.2	33.6
M81-35	36.8	41.1	25.0	32.8	24.9
M81-38	30.0	42.4	24.0	38.7	31.6
M81-43	31.3	42.3	29.2	34.0	31.5
M81-70	34.7	42.7	41.4	33.3	35.9
M81-76	34.6	40.4	32.9	36.7	29.1
M81-98	30.9	44.5	30.5	41.4	36.1
M81-99	30.8	39.7	30.4	31.3	35.4
M81-296	27.8	40.6	31.2	33.7	34.6
M81-301	31.3	37.8	27.0	31.2	31.1
M81-497	33.1	36.6	24.3	34.5	30.3
M81-571	25.4	44.3	32.6	35.6	35.7
M81-579	34.0	37.9	37.7	36.4	31.3
M81-605	31.1	42.8	38.7	34.8	33.0
M82-1068	28.1	39.5	30.0	34.6	32.8
ND852	36.1	39.5	36.5	34.0	29.7
ND853	26.3	36.3	31.0	32.7	29.2
ND854	27.9	39.8	24.9	34.8	32.4
ND855	31.8	37.7	35.0	31.8	30.3
OAC82-07	34.9	37.9	30.8	36.9	32.2
OT83-4	32.7	42.9	29.7	33.0	29.0
OT84-14	32.8	44.3	37.4	37.0	30.4
C.V. (%)	14.5	8.7	17.3	9.4	9.2
L.S.D. (5%)	7.1	5.7	9.1	5.2	4.7
Row Sp. (In.)	15	16	18	30	36
Rows/Plot	4	4	4	4	4
Reps	4	3	3	3	-

UNIFORM TEST 0, 1985

YIELD RANK

Strain	Yield Rank	Bad Axe MI	Morris MN	Rose-mount MN	Fargo ND	Elora ONT	Ottawa ONT	Smith-field ONT	Wilmot SD	Spooner WI
Dawson	12	8	5	15	28	17	14	15	5	18
Evans (0)	9	14	6	5	10	8	13	10	27	30
Hodgson 78 (I)	4	6	16	14	32	2	20	1	9	13
McCall (00)	34	35	21	35	29	25	5	21	36	36
M74-12	11	2	8	11	8	26	1	25	10	33
M75-25	7	7	14	27	14	1	25	4	14	10
M76-50	36	36	35	13	31	36	36	36	35	34
M77-22	17	23	25	19	15	5	20	27	4	16
M77-251	35	33	32	33	34	31	33	30	34	32
M77-252	30	32	32	30	6	12	32	31	32	14
M81-7	23	11	23	18	16	16	15	27	33	25
M81-8	30	29	26	29	18	28	27	21	30	27
M81-18	1	3	3	1	1	6	10	17	12	24
M81-27	4	26	4	7	13	24	26	7	2	1
M81-32	12	14	13	6	9	29	9	12	19	7
M81-35	32	34	24	34	18	3	15	32	25	35
M81-38	16	23	19	2	2	26	11	35	3	14
M81-43	18	21	9	21	27	19	12	26	20	16
M81-70	9	5	27	24	24	8	8	2	23	3
M81-76	4	18	1	3	6	10	18	11	8	29
M81-98	2	30	7	8	3	22	2	19	1	2
M81-99	21	31	17	24	4	23	20	20	29	5
M81-296	24	28	20	22	30	33	17	14	22	6
M81-301	24	25	15	9	20	19	30	29	30	20
M81-497	24	12	22	17	21	13	35	34	18	22
M81-571	3	1	11	3	5	35	3	13	12	4
M81-579	12	17	18	12	17	11	28	5	10	18
M81-605	21	22	29	28	35	21	7	3	15	8
M82-1068	20	4	12	10	36	30	23	23	17	9
ND852	19	18	30	26	26	4	23	7	20	26
ND853	33	16	36	23	22	34	34	16	26	28
ND854	29	26	31	31	12	31	19	33	15	11
ND855	28	20	28	36	25	18	31	9	28	22
OAC82-07	15	12	2	16	33	7	28	17	7	12
OT83-4	27	8	32	32	11	15	6	24	24	30
OT84-14	8	10	10	20	23	14	3	6	6	21

UNIFORM TEST 0, 1985

MATURITY (Date)

Strain	Mean 8 Tests	Bad Axe MI	Morris MN	Rose-mount MN	Fargo ND	Elora ONT	Ottawa ONT	Smith-field ONT	Wilmot SD	Spooner WI
Dawson	-0.4	0	-2	-1		-1	-2	0	+3	0
Evans (0)	9-25.8	9-28	10-1	9-21		10-8	10-10	8-10	9-24	9-19
Hodgson 78 (I)	+7.0	+7	+4	+8		+10	+9	+1	+9	+8
McCall (00)	-12.8	-8	-19	-9		-17	-16	-13	-11	-9
M74-12	-0.1	0	-2	+2		0	-2	0	+4	-3
M75-25	+4.8	+5	+4	+3		+7	+3	+10	+6	0
M76-50	+1.5	+8	-4	0		+1	+1	+9	+1	-4
M77-22	+3.8	+6	+4	+5		+1	+4	+1	+6	+3
M77-251	-1.6	-2	-4	0		-2	-5	+3	0	-3
M77-252	+0.5	+1	-2	+1		+2	-2	+3	+4	-3
M81-7	-1.0	0	-2	-2		-1	-2	+2	-2	-1
M81-8	-1.5	-3	+2	-1		0	-5	+1	-1	-5
M81-18	-4.9	-3	-4	-1		-10	-7	-8	-1	-5
M81-27	+3.0	+4	+4	+1		+2	+1	+6	+4	+2
M81-32	+4.1	+2	+5	+8		+6	+3	-1	+6	+2
M81-35	-2.9	-1	-6	-1		-1	-1	-9	-1	-3
M81-38	+3.5	+2	+4	+5		+1	+7	+3	+4	+2
M81-43	+1.3	+3	0	0		+1	0	+1	+5	0
M81-70	+3.8	+2	+4	+4		+3	+3	+3	+5	+7
M81-76	+1.8	-1	+2	+2		0	+4	+3	+6	-2
M81-98	+4.3	+4	0	+7		+2	+5	+3	+6	+7
M81-99	+0.9	-2	+4	-1		0	0	+4	+3	-1
M81-296	+4.3	+2	+4	+1		+5	+7	+4	+5	+6
M81-301	+6.4	+5	+4	+4		+8	+10	+12	+5	+3
M81-497	+4.1	+2	+4	+6		+2	+6	0	+6	+7
M81-571	+2.4	+3	+2	+2		+3	+1	0	+6	+2
M81-579	+2.1	+4	0	+2		+2	0	+1	+6	+2
M81-605	+3.4	+3	+4	+5		+4	+1	+1	+7	+2
M82-1068	+6.9	+7	+5	+8		+6	+7	+5	+7	+10
ND852	+2.6	+1	+4	0		0	+8	+8	+3	-3
ND853	+4.8	+5	+4	+7		+6	+9	0	+3	+4
ND854	+6.0	+5	+4	+6		+9	+8	+7	+7	+2
ND855	+4.9	+5	0	+3		+8	+10	+3	+5	+5
OAC82-07	-1.5	-3	-4	-2		-5	-5	+10	-1	-2
OT83-4	+0.3	+1	+4	+3		-2	-2	+1	+3	-6
OT84-14	-2.4	-5	0	+2		-6	-3	0	-2	-5
Date Planted	5-17	-	5-20	5-22	-	5-29	5-30	4-6	5-28	5-6
Days to Mature	129	-	134	122	-	132	133	126	119	136

UNIFORM TEST 0, 1985

LODGING (Score)

Strain	Mean 9 Tests	Bad Axe MI	Morris MN	Rose-mount MN	Fargo ND	Elora ONT	Ottawa ONT	Smith-field ONT	Wilmot SD	Spooner WI
Dawson	1.6	1.2	1.7	2.3	2.0	1.0	1.3	1.0	1.0	2.7
Evans (0)	1.5	1.0	2.0	2.0	1.0	1.0	1.4	1.0	1.0	3.0
Hodgson 78 (I)	1.8	1.5	2.3	2.3	2.0	1.0	2.6	1.0	1.3	2.3
McCall (00)	1.5	1.0	1.0	2.0	2.0	1.0	1.3	1.0	1.0	3.3
M74-12	1.3	1.0	2.0	1.7	1.0	1.0	1.0	1.0	1.0	2.3
M75-25	1.4	1.0	1.3	1.3	2.0	1.0	1.1	1.0	1.0	2.7
M76-50	1.4	1.0	1.3	2.7	2.0	1.0	1.0	1.0	1.0	2.0
M77-22	1.7	1.0	2.0	2.7	2.0	1.0	1.5	1.0	1.0	2.7
M77-251	1.4	1.0	1.7	1.7	2.0	1.0	1.2	1.0	1.0	2.3
M77-252	1.7	1.0	2.3	1.7	2.0	1.0	2.5	1.0	1.0	3.0
M81-7	1.5	1.0	2.0	2.0	1.0	1.0	1.5	1.0	1.0	2.7
M81-8	1.7	1.0	2.0	2.7	2.0	1.0	1.5	1.0	1.0	3.0
M81-18	1.2	1.0	1.0	1.7	1.0	1.0	0.9	1.0	1.0	2.3
M81-27	1.4	1.0	2.0	2.0	2.0	1.0	1.1	1.0	1.0	1.7
M81-32	1.6	1.0	2.7	2.7	2.0	1.0	1.5	1.0	1.0	1.7
M81-35	1.3	1.0	1.0	1.3	2.0	1.0	1.0	1.0	1.0	2.0
M81-38	1.3	1.0	1.7	2.0	1.0	1.0	1.1	1.0	1.0	2.3
M81-43	1.4	1.0	1.3	1.7	2.0	1.0	1.1	1.0	1.0	2.3
M81-70	2.2	2.0	2.0	3.0	3.0	1.0	3.5	1.0	1.3	3.0
M81-76	1.6	1.0	2.0	2.0	2.0	1.0	1.3	1.0	1.0	3.0
M81-98	1.4	1.0	2.0	1.3	2.0	1.0	1.1	1.0	1.3	2.0
M81-99	1.3	1.0	2.0	1.0	2.0	1.0	1.0	1.0	1.0	2.0
M81-296	1.5	1.0	2.3	2.3	2.0	1.0	1.0	1.0	1.0	2.0
M81-301	1.5	2.0	2.0	2.0	2.0	1.0	1.1	1.0	1.0	1.7
M81-497	1.7	1.0	2.3	2.7	2.0	1.0	1.6	1.0	1.3	2.7
M81-571	1.7	1.0	2.0	2.3	2.0	1.0	1.7	1.0	1.3	2.7
M81-579	1.6	1.0	2.0	2.0	2.0	1.0	1.4	1.0	1.0	3.0
M81-605	1.8	1.2	2.0	3.0	2.0	1.0	1.6	1.0	1.0	3.0
M82-1068	2.6	2.3	3.0	4.0	3.0	1.0	3.7	1.0	1.7	4.0
ND852	2.0	1.8	2.7	3.3	1.0	1.0	2.8	1.0	1.7	3.0
ND853	2.2	1.8	2.7	3.7	2.0	1.0	3.6	1.0	1.0	3.0
ND854	1.7	1.0	2.0	2.7	2.0	1.0	2.1	1.0	1.0	2.7
ND855	1.8	1.0	2.3	2.3	2.0	1.0	3.4	1.0	1.0	2.0
OAC82-07	1.7	1.0	1.7	2.3	3.0	1.0	1.6	1.0	1.3	2.3
OT83-4	1.8	1.2	2.0	3.0	2.0	1.0	1.4	1.0	1.0	3.3
OT84-14	1.6	1.0	1.7	2.0	2.0	1.0	1.2	1.0	1.0	3.3

UNIFORM TEST 0, 1985

PLANT HEIGHT (Inches)

Strain	Mean 9 Tests	Bad Axe MI	Morris MN	Rose-mount MN	Fargo ND	Elora ONT	Ottawa ONT	Smith-field ONT	Wilmot SD	Spooner WI
Dawson	29	32	34	36	28	27	33	18	28	29
Evans (0)	31	32	36	36	30	25	36	18	30	32
Hodgson 78 (I)	34	33	39	39	30	32	37	25	34	35
McCall (00)	26	24	30	28	29	19	33	15	26	27
M74-12	27	25	34	34	28	23	32	16	27	25
M75-25	28	24	34	32	29	24	30	20	27	28
M76-50	24	25	29	27	28	21	26	15	25	23
M77-22	30	28	37	36	31	29	33	17	31	29
M77-251	25	25	31	27	24	23	29	18	24	23
M77-252	27	25	31	29	28	24	30	19	26	27
M81-7	30	30	35	35	27	28	33	19	31	30
M81-8	31	28	36	36	27	28	37	22	32	31
M81-18	27	29	32	32	27	24	30	15	28	29
M81-27	29	27	39	32	27	27	34	17	28	28
M81-32	30	29	39	36	29	28	35	19	30	29
M81-35	29	26	34	32	26	25	33	16	29	27
M81-38	29	30	37	33	30	26	34	17	30	25
M81-43	29	29	34	33	33	26	33	18	29	28
M81-70	34	33	37	39	34	26	38	22	34	39
M81-76	30	29	37	36	35	22	35	17	31	29
M81-98	30	25	37	34	35	22	37	17	29	30
M81-99	30	28	37	36	32	26	35	17	29	31
M81-296	30	28	39	33	30	24	35	19	27	31
M81-301	29	26	36	32	33	25	32	20	27	28
M81-497	31	29	35	35	33	26	32	17	31	29
M81-571	30	29	35	35	36	23	34	19	28	29
M81-579	30	28	38	35	33	23	35	20	29	29
M81-605	31	30	36	35	37	26	34	20	30	29
M82-1068	35	36	39	40	35	28	39	22	35	37
ND852	32	35	39	37	28	26	37	23	33	30
ND853	32	34	36	37	34	26	36	20	33	31
ND854	32	34	36	37	33	27	37	22	33	30
ND855	34	35	41	40	38	26	39	22	34	33
OAC82-07	31	32	34	37	36	25	33	19	29	34
OT83-4	32	34	38	40	34	24	36	21	32	27
OT84-14	30	29	36	36	34	22	37	19	29	31

UNIFORM TEST 0, 1985

SEED QUALITY (Score)

Strain	Mean 9 Tests	Bad Axe MI	Morris MN	Rose-mount MN	Fargo ND	Elora ONT	Ottawa ONT	Smith-field ONT	Wilmot SD	Spooner WI
Dawson	1.5		1.3	1.7	1.0	2.5	1.0	1.0	2.0	1.7
Evans (0)	1.8		2.0	1.7	1.0	3.0	1.0	1.0	2.0	3.0
Hodgson 78 (I)	1.9		2.7	2.0	1.0	3.5	1.0	1.0	2.0	2.0
McCall (00)	2.0		1.7	2.3	1.0	3.5	1.0	1.0	2.0	3.3
M74-12	2.0		3.0	2.7	1.0	3.5	1.0	1.0	2.0	3.0
M75-25	1.9		2.3	2.3	1.0	3.0	1.0	1.0	2.0	2.7
M76-50	2.1		2.0	2.3	1.0	3.0	1.0	2.0	3.0	2.3
M77-22	1.8		2.0	2.3	1.0	2.5	1.0	1.0	2.0	2.7
M77-251	1.7		1.7	2.0	1.0	3.5	1.0	1.0	1.0	2.0
M77-252	2.0		2.3	2.3	1.0	3.0	1.0	1.6	2.0	2.7
M81-7	2.0		2.7	2.3	1.0	3.0	1.0	1.3	2.0	3.0
M81-8	2.0		2.3	2.3	1.0	3.5	1.3	1.0	2.0	2.7
M81-18	1.6		1.7	1.7	1.0	2.5	1.0	1.0	2.0	1.7
M81-27	1.7		1.3	2.0	1.0	3.0	1.0	1.0	2.0	2.0
M81-32	1.8		2.0	2.7	1.0	2.0	1.0	1.0	2.0	2.3
M81-35	2.3		1.7	2.3	1.0	3.5	1.0	2.0	2.0	5.0
M81-38	1.7		1.7	1.7	1.0	3.5	1.0	1.0	2.0	1.3
M81-43	1.7		1.7	2.3	1.0	2.5	1.0	1.0	2.0	2.3
M81-70	1.5		1.3	1.7	1.0	2.5	1.0	1.0	1.0	2.7
M81-76	1.8		1.3	2.0	1.0	3.0	1.0	1.0	2.0	3.0
M81-98	2.3		2.7	2.7	2.0	3.5	1.0	1.3	2.0	3.3
M81-99	1.8		2.3	1.7	1.0	2.5	1.0	1.7	2.0	2.0
M81-296	1.8		2.0	2.3	1.0	2.0	1.0	1.3	2.0	2.7
M81-301	2.1		2.3	3.0	1.0	3.5	1.0	1.3	2.0	3.0
M81-497	1.8		2.0	2.7	1.0	2.0	1.0	1.3	2.0	2.7
M81-571	1.7		1.7	1.7	1.0	1.5	1.0	1.0	3.0	2.3
M81-579	1.7		2.0	1.7	1.0	3.5	1.0	1.0	1.0	2.0
M81-605	1.6		2.0	1.7	1.0	2.0	1.0	1.0	2.0	2.0
M82-1068	2.7		3.3	2.3	3.0	3.0	1.0	1.0	3.0	5.0
ND852	1.6		1.7	1.7	1.0	2.5	1.0	1.0	2.0	2.0
ND853	2.3		2.3	2.0	1.0	3.5	1.0	1.0	3.0	3.3
ND854	2.8		2.7	2.7	3.0	5.0	1.0	1.3	3.0	4.0
ND855	1.7		1.3	2.0	1.0	3.5	1.0	1.0	2.0	1.7
OAC82-07	2.1		1.3	2.0	2.0	3.5	1.0	1.7	2.0	3.0
OT83-4	1.6		2.0	1.3	1.0	1.5	1.0	1.0	2.0	2.7
OT84-14	1.5		1.0	1.3	1.0	1.5	1.0	1.0	2.0	3.3

UNIFORM TEST 0, 1985

SEED SIZE (g/100)

Strain	Mean 9 Tests	Bad Axe MI	Morris MN	Rose-mount MN	Fargo ND	Elora ONT	Ottawa ONT	Smith-field ONT	Wilmot SD	Spooner WI
Dawson	16.1	16.8	15.1	15.1	13.9	14.3	17.2	19.3	17.6	15.9
Evans (0)	17.5	17.9	16.0	16.2	15.7	16.7	17.1	19.7	19.6	18.6
Hodgson 78 (I)	17.8	19.1	16.7	17.0	15.7	16.1	17.2	20.1	19.0	19.4
McCall (00)	15.7	18.3	14.1	13.8	13.4	15.4	16.3	18.8	15.9	15.6
M74-12	18.5	19.1	18.1	17.6	16.3	16.4	17.7	21.6	20.9	19.0
M75-25	18.2	19.0	17.0	17.1	15.8	18.2	17.7	20.4	19.5	19.1
M76-50	19.5	21.9	18.7	18.8	15.3	16.8	20.1	23.8	21.1	19.3
M77-22	17.7	19.2	17.5	16.8	14.1	16.0	17.4	20.8	18.0	19.9
M77-251	19.4	20.0	17.8	18.9	16.8	19.3	19.3	21.1	21.5	20.2
M77-252	19.8	21.1	18.5	19.6	17.7	18.1	19.2	21.9	22.3	19.7
M81-7	20.0	21.9	20.4	18.4	15.4	18.4	20.1	21.8	22.3	21.7
M81-8	15.4	16.9	13.8	15.4	13.5	13.7	15.0	17.1	17.1	16.1
M81-18	17.1	17.8	16.8	15.8	14.1	14.8	17.2	19.4	18.8	18.8
M81-27	17.6	19.0	16.1	15.9	16.7	14.4	17.5	21.3	18.6	18.8
M81-32	17.1	17.6	17.0	17.8	14.8	14.9	16.5	18.7	18.2	18.2
M81-35	21.2	23.3	19.5	18.4	17.4	21.0	21.7	23.6	22.6	23.1
M81-38	18.0	18.6	17.8	18.2	15.6	14.6	16.5	19.3	23.8	18.0
M81-43	18.2	18.6	18.5	16.2	16.5	16.5	17.3	20.6	20.6	18.8
M81-70	18.6	19.4	17.1	17.2	15.4	16.8	18.1	22.4	20.5	20.6
M81-76	21.2	23.3	20.3	22.9	18.6	19.1	21.0	25.4	18.1	22.3
M81-98	16.4	16.1	15.7	16.2	15.3	15.5	16.0	17.6	17.4	17.8
M81-99	17.4	17.7	18.2	16.4	15.8	15.7	16.6	18.4	18.8	19.0
M81-296	16.2	16.5	13.4	15.8	13.6	15.0	16.4	19.4	17.6	17.7
M81-301	17.1	18.2	15.0	16.3	13.4	15.4	17.5	20.6	19.1	18.6
M81-497	18.3	19.6	17.2	17.6	15.6	15.6	18.1	20.6	20.4	20.0
M81-571	16.3	16.5	15.2	15.4	12.8	15.9	15.7	18.8	18.3	17.8
M81-579	16.9	17.9	16.2	15.5	15.5	17.0	15.9	19.0	18.2	16.8
M81-605	17.6	18.8	16.9	16.1	15.5	15.0	17.5	19.8	19.9	19.1
M82-1068	16.1	17.3	15.1	15.3	14.0	14.6	15.0	19.3	18.7	15.9
ND852	18.2	19.2	19.4	18.1	15.0	16.3	17.1	20.1	19.3	19.4
ND853	21.6	23.4	20.5	22.6	17.0	19.6	20.8	23.0	23.9	23.4
ND854	19.3	19.6	18.2	18.8	15.4	19.0	18.8	22.7	20.3	20.7
ND855	19.1	20.7	18.5	17.7	17.2	18.1	19.4	21.2	19.2	19.9
OAC82-07	17.7	18.8	15.4	16.0	15.8	17.2	17.0	21.5	18.4	18.8
OT83-4	15.9	16.9	14.0	15.1	13.5	13.6	16.3	19.7	17.8	16.6
OT84-14	18.6	19.8	18.0	17.5	16.7	17.1	18.3	21.2	20.2	18.4

UNIFORM TEST 0, 1985

PROTEIN (%)

Strain	Mean 4 Tests	Morris MN	Ottawa ONT	Wilmot SD	Madison WI
Dawson	40.0	40.0	40.5	40.1	39.4
Evans (0)	39.7	39.3	39.8	39.1	40.4
Hodgson 78 (I)	39.9	39.1	40.2	39.8	40.4
McCall (00)	39.8	40.6	39.4	38.1	41.0
M74-12	41.3	42.0	40.9	41.4	41.0
M75-25	40.9	40.4	41.5	40.5	41.0
M76-50	38.5	37.9	40.0	38.5	37.4
M77-22	38.8	40.0	35.9	39.0	40.1
M77-251	45.6	45.1	45.1	46.2	45.8
M77-252	45.3	45.1	44.8	46.5	44.9
M81-7	41.9	42.1	41.8	42.1	41.5
M81-8	39.2	38.4	39.4	38.5	40.3
M81-18	38.2	39.6	37.8	37.5	37.9
M81-27	39.6	39.6	39.7	38.5	40.7
M81-32	42.0	41.3	42.2	42.4	42.2
M81-35	42.1	42.3	42.1	41.5	42.4
M81-38	41.1	41.3	42.0	40.6	40.5
M81-43	39.4	38.8	40.0	40.2	38.5
M81-70	40.0	40.5	40.0	40.0	39.5
M81-76	41.4	40.9	41.0	41.2	42.3
M81-98	39.2	39.1	39.9	39.0	38.9
M81-99	40.7	40.7	40.8	40.5	40.8
M81-296	40.9	39.5	40.8	40.6	42.5
M81-301	38.9	38.0	39.4	39.4	38.9
M81-497	39.8	39.2	40.0	40.5	39.3
M81-571	39.4	39.9	39.3	39.2	39.3
M81-579	40.1	39.8	40.0	40.5	40.0
M81-605	42.4	41.6	42.0	43.2	42.8
M82-1068	40.3	40.4	40.4	40.5	39.8
ND852	42.6	42.2	43.0	42.8	42.2
ND853	42.6	42.2	43.3	42.9	41.9
ND854	40.0	40.4	39.9	40.6	39.2
ND855	41.2	40.7	41.7	41.3	40.9
OAC82-07	38.6	38.8	38.2	39.2	38.3
OT83-4	40.6	40.1	41.0	41.3	40.1
OT84-14	40.7	40.4	40.6	41.7	40.1

UNIFORM TEST 0, 1985

OIL (%)

Mean 4 Tests	Morris MN	Ottawa ONT	Wilmot SD	Madison WI
19.0	18.9	17.6	19.2	20.4
19.6	19.9	18.0	20.4	19.9
19.2	19.9	17.2	20.0	19.7
18.7	18.1	17.7	20.1	18.8
18.7	18.6	17.4	19.6	19.2
19.2	18.8	18.0	19.8	20.3
21.0	20.9	18.8	22.1	22.3
19.4	19.1	18.4	20.6	19.5
16.5	16.7	15.7	16.5	17.1
16.1	15.9	15.6	16.0	17.0
18.6	18.8	17.2	19.2	19.2
19.4	19.5	17.4	21.0	19.8
20.0	19.5	18.6	21.3	20.7
19.5	19.7	18.2	20.8	19.3
18.1	18.2	17.0	18.4	18.7
18.5	18.5	17.0	19.4	19.0
19.4	19.7	17.7	20.2	19.9
19.4	19.6	17.5	19.9	20.5
19.8	20.1	18.0	20.3	20.7
19.4	20.0	18.1	20.2	19.3
20.2	20.5	18.2	20.8	21.3
19.8	19.9	18.4	20.3	20.5
18.5	19.4	17.0	19.4	18.0
19.0	19.4	17.7	19.7	20.1
18.5	18.6	17.1	18.7	19.4
19.5	20.0	17.9	20.0	20.0
19.3	19.6	17.9	20.0	19.8
18.7	19.2	17.6	18.7	19.3
19.1	19.5	17.0	19.9	19.8
18.5	18.4	16.3	19.5	19.6
18.9	19.4	17.1	19.1	19.8
18.9	19.2	17.0	19.4	19.8
18.0	18.4	16.0	18.8	18.7
20.0	20.0	18.2	20.5	21.2
19.2	19.6	17.6	19.2	20.4
19.7	20.5	18.0	19.7	20.5

UNIFORM TEST I, 1985

Strain	Parentage	Previous Testing	Generation Composited
Elgin (II)	AP6(2YT) (F_4)Cl	1	F_4
Evans (0)	Merit x Harosoy	8	F_5
Hardin	Corsoy^3 x Cutler 71	2	F_3
Hodgson 78 (I)	Hodgson^7 x Merit	11	BC_6F_3
A80-149020(BSR101)	L69U40-16-4 x A76-304020 1	F_4	
A82-161034	A76-103002 x A77-211021	1	F_4
A83-171015	A78-122031 x Tri-Valley Charger	PI	F_4
A83-172007	A77-211021 x Merschman Washington V	PI	F_4
A83-172030	Agripro AP200 x NK S1492	PI	F_4
A83-174020	NK S1492 x A78-122031	PI	F_4
M74-62	M68-256 x Hodgson	3	F_5
M74-498	Peterson PX20 x 554-10	1	F_5
M75-2	Hodgson^4 x [M67-141 x (Chippewa x Higan)]	1	F_5
M77-137	M71-77 x Simpson	PI	F_5
M81-621	Seed from double embryo	PI	-

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score		Emergence Score	Shattering Score	BSR Ames Plant N %	BSR Ames Stem N %
			Ames	Waseca	Ames	Manhattan		
Elgin (II)	PTBSYBL	I	3.5	3.8	4	1.0	60	29.8
Evans (0)	WGBDYY	I	2.2	2.8	1	1.0	100	83.7
Hardin	PGBDYY	I	3.7	4.5	3	1.0	70	38.9
Hodgson 78 (I)	PGBDYBf	I	2.8	2.2	5	1.0	70	30.4
A80-149020	PGTDYIb	I	2.2	4.2	1	1.0	20	2.3
A82-161034	WGBSYBf	I	2.7	3.5	5	2.0	80	25.6
A83-171015	WGBDYBf	I	3.7	4.0	3	1.0	70	31.3
A83-172007	WTBDYBr	I	3.8	4.5	2	1.0	70	15.3
A83-172030	WGBSYBf	I	3.7	4.2	2	1.0	90	58.6
A83-174020	WGBDYBf	I	4.7	4.8	1	1.0	90	32.4
M74-62	WGBDYY	I	3.7	4.0	2	1.0	100	50.6
M74-498	PGBDYBf	I	3.2	4.0	1	1.0	70	21.5
M75-2	PGBDYBf	I	2.2	3.5	2	1.0	90	43.2
M77-137	PGBDYIb	I	1.8	2.5	3	1.0	100	48.3
M81-621	WGBDYY	I	3.8	4.5	2	1.0	90	46.5

UNIFORM TEST I, 1985

DISEASE DATA

Strain	BTS	PR		PS	PSB	SMV	Germ
	Ames	Ames	Lafayette		Lafayette		
	a	Race4	Race1	a	n	a	
	Score	--- Reaction ---		%	%	Score	%
Elgin (II)	4	S	S	53	3	5E	83
Evans (0)	3	S	R	40	8	1	82
Hardin	2	S	R	49	25	5E	69
Hodgson 78 (I)	4	S	R	75	16	2E	71
A80-149020	3	S	R	67	12	2E	76
A82-161034	4	S	R	80	9	2M	72
A83-171015	4	S	H	69	15	3M	76
A83-172007	3	R	R	66	15	4E	65
A83-172030	4	R	R	61	23	5E	66
A83-174020	4	S	S	62	14	5E	79
M74-62	4	S	R	65	4	2M	88
M74-498	3	S	R	69	22	2E	69
M75-2	5	S	R	48	22	1	60
M77-137	3	S	S	60	1	1	89
M81-621	3	H	S	24	2	2E	81

Regional Summary

Strain No. of Tests	Yield 14 bu/a	Rank 14 No.	Maturity 13 Date	Lodging 14 Score	Plant Height 14 In	Seed Quality 11 Score	Seed Size 13 g/100	Composition Protein 4 %	Oil 4 %
Elgin (II)	42.2	2	+7.8	1.6	31	2.3	18.4	40.0	20.1
Evans (0)	32.0	15	-7.1	1.3	29	2.2	16.6	39.5	21.2
Hardin	38.9	8	+4.8	1.8	34	2.2	15.3	40.4	20.6
Hodgson 78 (I)	35.8	11	9-20.0*	1.6	32	2.0	17.3	40.3	20.5
A80-149020	39.4	4	+7.7	1.4	32	2.3	17.8	40.1	20.6
A82-161034	38.2	9	+7.3	1.7	32	2.4	16.9	41.4	19.5
A83-171015	39.3	5	+3.7	1.7	29	2.4	16.7	40.7	19.8
A83-172007	42.7	1	+7.9	1.9	35	2.8	20.7	41.7	19.8
A83-172030	39.0	7	+4.0	1.7	31	2.3	16.6	39.8	19.9
A83-174020	40.7	3	+7.3	1.9	32	2.1	17.3	40.5	20.9
M74-62	39.1	6	+1.2	1.6	31	1.8	19.1	40.4	21.0
M74-498	38.0	10	+6.3	1.4	31	2.0	16.5	42.6	19.5
M75-2	34.7	14	-1.0	1.5	30	2.0	17.5	40.5	20.9
M77-137	34.9	13	-2.3	1.2	29	1.9	17.9	40.5	20.9
M81-621	35.5	12	+0.5	1.7	31	2.3	14.0	41.0	19.4

* 123 Days After Planting

UNIFORM TEST I, 1985

1984-1985 2-YEAR MEAN

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	27	27	25	27	27	21	25	8	8
	bu/a	No.	Date	Score	In	Score	g/100	%	%
Elgin (II)	42.5	1	+6.6	1.6	31	2.3	17.2	39.5	20.4
Evans (0)	32.2	9	-6.4	1.3	28	2.1	16.4	38.9	22.0
Hardin	41.0	4	+3.8	1.8	34	2.0	15.5	39.8	20.7
Hodgson 78 (I)	37.7	7	9-18.7*	1.7	32	1.9	17.1	39.9	21.2
A80-149020 (BSR101)	41.1	3	+5.8	1.5	32	2.1	17.6	40.0	20.5
A82-161034	41.3	2	+5.4	1.8	32	2.2	16.7	40.8	20.3
M74-62	39.9	6	+1.0	1.6	31	1.8	18.8	40.0	21.6
M74-498	40.7	5	+5.2	1.5	31	1.9	16.4	41.8	20.0
M75-2	37.0	8	-1.0	1.6	30	2.0	17.3	40.2	21.4

* 121 Days After Planting

1983-1985 3-YEAR MEAN

No. of Tests	42	42	38	42	42	33	40	13	13
Evans (0)	31.4	4	-6.8	1.3	28	2.2	15.5	38.8	22.5
Hardin	41.5	1	+4.5	1.9	35	2.1	15.0	39.7	21.2
Hodgson 78 (I)	38.7	3	9-17.5*	1.7	32	1.9	16.5	39.6	21.7
M74-62	40.5	2	+0.9	1.7	31	1.9	18.0	40.0	22.0

* 119 Days After Planting

The range in maturity between the early (Evans) and late (Elgin) varieties was 14.9 days in 1985 compared to 10.9 days in 1984. This broader range in maturity has resulted in four strains, A82-161034, A83-172007, A83-174020, and M74-498 maturing later than the accepted range for Group I strains.

UNIFORM TEST I, 1985

YIELD (bu/a)

Strain	Mean 14 Tests	Cor-with IA	Manson IA	Lafa-yette IN	Britton MI	St. Charles MI	Lamberton MN
Elgin (II)	42.2	48.6	42.8	53.4	49.9	44.9	47.5
Evans (0)	32.0	34.4	30.6	28.4	40.0	35.1	39.1
Hardin	38.9	42.1	39.7	47.2	47.1	41.4	45.9
Hodgson 78 (I)	35.8	38.3	32.5	41.2	45.9	35.3	42.2
A80-149020	39.4	48.5	41.5	45.3	49.6	42.7	40.6
A82-161034	38.2	46.5	39.8	42.0	50.9	36.6	44.1
A83-171015	39.3	47.2	36.1	44.5	45.5	41.3	48.3
A83-172007	42.7	49.0	40.5	43.8	49.8	46.7	46.5
A83-172030	39.0	42.9	40.5	41.0	47.4	43.2	45.3
A83-174020	40.7	45.5	44.9	45.0	46.6	44.3	48.5
M74-62	39.1	41.7	36.3	36.7	48.0	42.3	45.9
M74-498	38.0	43.1	37.9	48.9	50.1	43.7	43.9
M75-2	34.7	40.9	30.8	40.7	38.0	36.5	41.6
M77-137	34.9	44.0	33.1	35.2	36.8	39.8	41.4
M81-621	35.5	43.1	34.2	38.3	40.9	36.9	42.5
C.V. (%)		5.7	10.2	10.6	5.5	4.5	5.0
L.S.D. (5%)		3.5	5.4	6.3	8.4	7.8	3.7
Row Sp. (In.)		27	27	24	20	20	30
Rows/Plot		4	4	4	4	4	4
Reps		4	4	3	4	4	3

YIELD RANK

Strain	14 Tests						
Elgin (II)	2	2	2	1	3	2	3
Evans (0)	15	15	15	15	13	15	15
Hardin	8	11	7	3	8	8	5
Hodgson 78 (I)	11	14	13	9	10	14	11
A80-149020	4	3	3	4	5	6	14
A82-161034	9	5	6	8	1	12	8
A83-171015	5	4	10	6	11	9	2
A83-172007	1	1	4	7	4	1	4
A83-172030	7	10	4	10	7	5	7
A83-174020	3	6	1	5	9	3	1
M74-62	6	12	9	13	6	7	5
M74-498	10	8	8	2	2	4	9
M75-2	14	13	14	11	14	13	12
M77-137	13	7	12	14	15	10	13
M81-621	12	8	11	12	12	11	10

UNIFORM TEST I, 1985

YIELD (bu/a)

Waseca MN	Mead NE	London ONT	Ridge-town ONT	State College PA	Brookings SD	Wilmot SD	Arlington WI
35.9	50.8	49.3	34.9	31.4	35.9	28.1	37.6
23.1	27.2	25.7	23.1	25.4	41.1	36.3	39.1
31.5	46.2	40.6	28.6	34.0	33.7	31.6	34.6
21.9	41.5	34.9	26.9	30.0	37.8	35.7	37.1
35.9	48.1	37.8	38.2	31.2	29.2	26.8	36.4
31.7	52.4	39.4	23.3	25.0	29.5	33.5	40.7
27.1	45.4	38.7	35.7	29.7	41.7	35.8	33.8
40.1	46.1	45.3	36.3	40.6	37.2	35.6	40.5
26.2	50.5	41.0	34.8	25.4	39.8	33.0	35.3
32.3	50.2	38.4	38.5	32.5	33.4	38.9	30.8
25.8	44.8	38.9	29.6	32.0	41.1	42.9	41.1
21.8	47.8	35.9	31.1	26.5	31.9	32.7	36.0
24.2	41.3	33.3	28.6	20.3	37.8	35.0	37.0
28.4	37.2	31.5	25.8	23.1	42.2	31.5	38.9
26.7	42.0	26.5	24.1	23.5	42.3	36.6	40.0
12.5	-	9.9	16.8	21.4	6.3	18.4	5.0
6.1	-	5.1	9.4	10.3	3.8	N.S.	3.0
30	30	15	24	30	30	30	30
4	4	4	4	4	4	4	4
3	3	4	3	3	3	3	-

YIELD RANK

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

UNIFORM TEST I, 1985

MATURITY (Date)

Strain	Mean 13 Tests	Cor-with IA	Manson IA	Lafa-yette IN	Britton MI	St. Charles MI	Lamberton MN
Elgin (II)	+7.8	+9		+10	+6	+7	+8
Evans (0)	-7.1	-8		-9	-8	-8	-6
Hardin	+4.8	+6		+4	+3	+8	+5
Hodgson 78 (I)	9-20.0	9-11		8-29	9-22	9-27	9-17
A80-149020	+7.7	+9		+6	+4	+9	+8
A82-161034	+7.3	+8		+4	+3	+6	+9
A83-171015	+3.7	+6		+2	+1	+4	+6
A83-172007	+7.9	+9		+5	+7	+9	+11
A83-172030	+4.0	+7		+3	+2	+5	+5
A83-174020	+7.3	+10		+7	+6	+8	+10
M74-62	+1.2	+2		-1	-1	+2	+2
M74-498	+6.3	+8		+6	+3	+6	+9
M75-2	-1.0	-1		-2	-2	-1	-1
M77-137	-2.3	-2		-4	-4	-3	-3
M81-621	+0.5	0		-4	+1	+2	-2
Date Planted	5-20	5-9		5-7	5-8	5-23	5-9
Days to Mature	123	125		114	137	127	131

LODGING (Score)

Strain	Mean 14 Tests						
Elgin (II)	1.6	2.0	1.4	1.3	3.0	1.5	1.3
Evans (0)	1.3	1.8	1.0	1.2	2.0	1.0	1.0
Hardin	1.8	2.2	1.5	2.5	2.5	1.8	2.0
Hodgson 78 (I)	1.6	2.0	1.3	2.3	2.0	1.5	1.0
A80-149020	1.4	1.9	1.3	1.0	2.0	1.0	1.3
A82-161034	1.7	2.2	1.3	1.2	2.0	1.8	2.3
A83-171015	1.7	1.9	1.3	1.7	2.8	1.5	1.7
A83-172007	1.9	2.1	1.4	2.7	3.0	2.3	2.3
A83-172030	1.7	2.5	1.2	1.7	3.0	1.8	1.3
A83-174020	1.9	2.7	1.3	1.8	3.0	2.0	2.0
M74-62	1.6	2.3	1.2	1.0	3.7	2.0	1.0
M74-498	1.4	1.8	1.3	1.2	1.5	1.2	1.0
M75-2	1.5	1.9	1.4	1.7	2.3	1.0	1.0
M77-137	1.2	1.7	1.2	1.0	2.0	1.0	1.0
M81-621	1.7	2.1	1.2	1.8	3.5	2.3	1.0

UNIFORM TEST I, 1985

MATURITY (Date)

Waseca MN	Mead NE	London ONT	Ridge-town ONT	State College PA	Brookings SD	Wilmot SD	Arlington WI
+11	+8	+6	+12	+4	+4	+3	+13
-9	-5	-12	-1	-2	-8	-7	-9
+4	+7	+5	+6	+5	+3	+3	+3
9-18	9-8	9-19	9-30	9-26	9-29	10-3	9-21
+12	+7	+7	+10	+4	+6	+4	+14
+10	+10	+6	+14	+3	+7	+3	+11
+3	+4	+1	+5	+6	+2	0	+7
+10	+7	+5	+13	+6	+4	+3	+13
+3	+6	+5	+2	+1	+4	+3	+6
+4	+8	+7	+10	+5	+4	+4	+12
0	+7	+1	+3	+1	-1	0	0
+3	+6	+5	+12	+4	+5	+5	+9
-2	+2	-2	+1	-1	-2	-1	0
-1	-3	-3	0	-3	-2	-2	0
0	+5	+1	+4	-1	0	0	0
5-13	5-23	5-15	6-7	6-5	5-24	5-28	5-21
128	108	127	115	113	128	128	123

LODGING (Score)

1.0	1.0	1.0	1.7	1.0	2.0	1.0	3.2
1.0	1.0	1.0	1.7	1.0	1.3	1.0	2.2
1.3	1.0	1.0	2.3	1.0	2.0	1.0	2.7
1.0	1.0	1.0	2.3	1.0	2.0	1.0	2.8
1.0	1.0	1.0	1.3	1.0	2.0	1.0	2.7
1.0	1.3	1.0	1.7	1.0	2.0	1.3	2.5
1.3	1.0	1.0	2.0	1.0	2.0	1.0	2.7
1.0	1.0	1.0	2.0	1.0	2.3	1.0	3.2
1.0	1.0	1.0	2.3	1.0	2.0	1.0	2.5
1.3	1.2	1.0	2.3	1.0	2.7	1.0	3.0
1.0	1.0	1.0	2.3	1.0	1.0	1.3	2.3
1.0	1.0	1.0	1.3	1.0	2.0	1.0	2.2
1.0	1.0	1.0	2.3	1.0	1.0	1.0	2.7
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.7
1.0	1.0	1.0	2.3	1.0	2.0	1.0	2.5

UNIFORM TEST I, 1985

PLANT HEIGHT (Inches)

Strain	Mean 14 Tests	Corwith IA	Manson IA	Lafayette IN	Britton MI	St. Charles MI	Lamberton MN
Elgin (II)	31	36	27	30	33	33	37
Evans (0)	29	36	26	25	31	35	32
Hardin	34	40	32	31	37	37	37
Hodgson 78 (I)	32	38	29	32	35	36	35
A80-149020	32	40	30	28	34	35	37
A82-161034	32	43	30	30	33	34	39
A83-171015	29	37	26	29	29	30	34
A83-172007	35	44	32	35	38	39	40
A83-172030	31	40	30	31	32	35	37
A83-174020	32	42	33	31	34	34	36
M74-62	31	38	26	29	34	35	34
M74-498	31	40	29	30	33	35	36
M75-2	30	37	27	30	31	33	32
M77-137	29	38	26	28	30	32	34
M81-621	31	40	28	29	34	35	33

SEED QUALITY (Score)

Strain	Mean 11 Tests			
Elgin (II)	2.3	1.5	1.5	1.7
Evans (0)	2.2	2.0	2.0	3.0
Hardin	2.2	1.4	1.5	3.3
Hodgson 78 (I)	2.0	1.9	2.0	2.0
A80-149020	2.3	1.7	2.0	1.7
A82-161034	2.4	1.4	2.5	1.7
A83-171015	2.4	1.6	1.5	2.0
A83-172007	2.8	2.5	3.0	3.0
A83-172030	2.3	2.3	2.0	2.0
A83-174020	2.1	1.3	2.0	2.0
M74-62	1.8	1.5	1.5	2.3
M74-498	2.0	1.8	3.0	2.0
M75-2	2.0	1.7	2.0	1.7
M77-137	1.9	1.6	2.0	2.3
M81-621	2.3	1.5	1.5	2.7

UNIFORM TEST I, 1985

PLANT HEIGHT (Inches)

Waseca MN	Mead NE	London ONT	Ridge-town ONT	State College PA	Brookings SD	Wilmot SD	Arlington WI
31	33	24	25	22	34	30	27
25	23	21	22	26	37	33	30
30	33	29	25	28	41	35	31
27	31	27	22	26	37	34	34
30	35	22	27	23	39	33	29
27	35	22	23	21	38	32	33
24	29	21	22	23	34	30	28
35	33	26	30	25	39	34	35
29	34	24	22	21	35	33	29
29	32	24	25	24	35	31	28
23	29	22	23	24	36	34	32
23	30	24	25	20	37	34	32
26	30	24	22	22	34	31	32
26	27	22	19	21	37	32	29
29	27	22	24	22	36	34	31

SEED QUALITY (Score)

1.3	1.0	1.5	2.0	2.0	5.0	5.0	2.0
2.0	1.0	2.5	2.0	2.0	2.0	2.0	3.0
2.0	1.0	2.5	3.0	1.5	3.0	3.0	2.0
2.0	1.0	2.0	2.0	2.0	2.0	2.0	3.0
2.0	1.2	2.0	2.0	2.0	5.0	3.0	2.0
1.7	1.0	2.0	3.0	1.5	5.0	3.0	3.0
2.0	1.2	2.0	2.0	2.0	5.0	3.0	4.0
3.7	1.0	2.0	2.0	1.5	4.0	4.0	4.0
1.7	1.5	1.5	2.0	2.0	3.0	2.0	5.0
2.0	1.0	1.0	2.0	2.0	3.0	2.0	4.0
2.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
1.7	1.0	1.5	2.0	2.0	3.0	2.0	2.0
2.3	1.0	2.0	3.0	2.0	2.0	2.0	2.0
2.0	1.0	2.0	3.0	2.0	2.0	2.0	1.0
2.0	1.2	2.5	3.0	2.0	3.0	3.0	2.0

UNIFORM TEST I, 1985

SEED SIZE (g/100)

Strain	Mean 13 Tests	Corwith IA	Manson IA	Lafayette IN	Britton MI	St. Charles MI	Lamberton MN
Elgin (II)	18.4	19.1		18.5	21.2	19.1	17.8
Evans (0)	16.6	15.7		16.7	17.3	17.7	15.6
Hardin	15.3	15.2		16.4	17.6	16.2	14.9
Hodgson 78 (I)	17.3	15.9		16.7	19.3	18.0	16.3
A80-149020	17.8	17.6		19.7	20.3	17.9	16.5
A82-161034	16.9	16.9		18.2	18.5	16.2	16.5
A83-171015	16.7	16.8		17.3	19.0	16.3	15.8
A83-172007	20.7	21.5		19.5	23.6	22.0	19.4
A83-172030	16.6	16.0		16.9	18.8	17.1	16.4
A83-174020	17.3	18.1		17.6	20.5	18.4	17.4
M74-62	19.1	18.4		17.9	21.8	20.1	18.6
M74-498	16.5	15.4		17.8	18.5	17.7	16.4
M75-2	17.5	16.6		17.1	19.6	17.7	16.5
M77-137	17.9	17.3		16.6	19.4	17.6	17.0
M81-621	14.0	12.7		14.0	15.0	13.7	13.2

PROTEIN (%)

Strain	Mean 4 Tests	Corwith IA	Waseca MN	Brookings SD	Madison WI
Elgin (II)	40.0	39.0	37.6	41.2	42.2
Evans (0)	39.5	39.1	37.8	40.0	40.8
Hardin	40.4	38.4	37.8	41.5	43.9
Hodgson 78 (I)	40.3	38.6	38.4	41.8	42.2
A80-149020	40.1	38.2	40.2	39.6	42.4
A82-161034	41.4	40.6	41.2	41.4	42.3
A83-171015	40.7	39.3	37.6	41.9	44.0
A83-172007	41.7	40.4	40.3	42.4	43.6
A83-172030	39.8	38.4	36.0	41.9	42.7
A83-174020	40.5	39.3	37.2	40.9	44.3
M74-62	40.4	39.1	38.1	42.0	42.3
M74-498	42.6	41.7	40.8	43.0	44.8
M75-2	40.5	39.4	38.7	42.1	41.7
M77-137	40.5	39.5	40.0	40.3	42.0
M81-621	41.0	40.2	38.9	42.3	42.5

UNIFORM TEST I, 1985

SEED SIZE (g/100)

Waseca MN	Mead NE	London ONT	Ridge-town ONT	State College PA	Brookings SD	Wilmot SD	Arlington WI
16.6	16.3	20.9	16.9	16.1	20.7	17.7	17.9
16.3	17.9	16.7	15.1	14.8	16.2	19.2	15.8
14.7	17.5	14.5	12.4	13.7	16.0	16.6	12.7
17.4	18.4	18.2	14 4	16.9	18.6	19.4	15.0
17.4	18.6	19.5	14.4	16.6	17.9	16.7	17.4
16.1	17.6	18.1	13.9	15.4	20.6	15.3	16.3
16.8	18.6	18.5	15.1	13.1	16.9	16.8	15.3
20.0	21.5	23.7	17.1	19.2	20.9	19.8	19.9
15.9	18.3	16.9	15.0	15.2	18.0	16.3	14.7
16.8	18.7	18.4	15.2	14.3	17.9	16.4	15.1
18.0	21.2	20.7	16.2	17.4	19.6	20.9	17.4
14.5	18.2	17.8	13.7	16.6	17.5	15.2	14.2
16.5	18.6	18.5	15.4	16.2	17.5	20.2	16.0
18.6	20.7	17.8	14.4	16.5	18.0	21.2	16.8
13.5	16.1	14.3	12.6	13.3	13.6	16.2	12.9

OIL (%)

Strain	Mean 4 Tests	Corwith IA	Waseca MN	Brookings SD	Madison WI
Elgin (II)	20.1	20.9	20.9	18.4	19.9
Evans (0)	21.2	21.0	21.7	20.6	21.2
Hardin	20.6	21.6	21.3	18.0	18.5
Hodgson 78 (I)	20.5	21.2	21.4	19.3	20.1
A80-149020	20.6	21.5	20.5	19.6	20.8
A82-161034	19.5	20.7	19.6	18.5	19.1
A83-171015	19.8	20.8	21.1	17.9	19.1
A83-172007	19.8	20.8	20.1	19.1	19.5
A83-172030	19.9	21.3	21.3	18.0	19.0
A83-174020	20.9	22.4	21.4	19.8	20.0
M74-62	21.0	21.9	22.4	19.4	20.0
M74-498	19.5	20.7	20.3	18.6	18.4
M75-2	20.9	21.9	21.6	19.4	20.6
M77-137	20.9	21.5	20.6	20.1	21.1
M81-621	19.4	20.0	20.4	18.1	18.8

PRELIMINARY TEST I, 1985

Strain	Parentage	Generation Composited
Elgin (II)	AP6(2YT) (F_4)C1	F_4
Evans (0)	Merit x Harosoy	F_5
Hodgson 78 (I)	Hodgson^7 x Merit	BC_6F_3
A80-149020 (I)	L69U40-16-4 x A76-304020	F_4
A84-181009	HW79015 x A78-123018	F_4
A84-181018	A79-134008 x Lakota	F_4
A84-182007	A78-123018 x A79-138024	F_4
A84-182018	A78-123018 x A79-334010	F_4
A84-182025	A79-134008 x NAPB EX9649	F_4
A84-182026	A79-134008 x Agripro AP225C	F_4
A84-183008	A78-123018 x A80-247007	F_4
A84-183020	A78-123018 x A79-334010	F_4
A84-183021	A78-123018 x A79-334010	F_4
A84-183027	A79-134008 x NAPB EX9649	F_4
A84-184018	Weber x Lakota	F_4
A84-184021	A79-134008 x Land o'Lakes LL4404	F_4
A84-184023	A79-134008 x NAPB EX9469	F_4
A84-184034	A79-134008 x Lakota	F_4
A84-185032	A77-211021 x NAPB EX4380	F_4
E83024	M70-128 x A75-305022	F_6
E83054	(Williams x D60-9647) x L74-3897	F_6
M81-77	M68-49-26 x M70-134	F_5
M81-248	M68-49-26 x Hardin	F_5
M81-380	M70-127 x Century	F_5
M81-381	M70-127 x Century	F_5
M81-382	M70-127 x Century	F_5
M81-384	M70-127 x Century	F_5
M81-395	Williams x Hodgson 78	F_5
M81-399	Hodgson 78 x A75-305022	F_5
M81-454	L75-0570 x Hodgson 78	F_5
M81-459	L75-0570 x Hodgson 78	F_5
M81-564	M69-36 x Weber	F_5
M82-1065	M75-2 x R79	F_4
W10186	Salut 216 x Amurskaja 41	F_5

PRELIMINARY TEST I, 1985

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score		Shattering Score	BSR Ames	
			Ames	Lamberton	Manhattan	Plant N %	Stem N %
Elgin (II)	PTBSYBl	I	3.5	2.0	1.0	80	45.7
Evans (0)	WGBDYY	I	2.2	1.5	1.0	90	52.7
Hodgson 78 (I)	PGBDYBf	I	2.8	3.5	1.0	100	61.4
A80-149020 (I)	PGTDYIb	I	2.2	2.5	1.0	40	10.4
A84-181009	PGBDYBf	I	3.5	3.0	2.0	80	33.4
A84-181018	PGTDYIb	I	1.8	1.5	1.0	90	49.8
A84-182007	PGBDYBf	I	2.8	3.5	2.0	100	63.5
A84-182018	PGBDYBf	I	4.0	3.0	2.0	100	65.5
A84-182025	PGBSYGr	I	2.0	1.0	1.0	90	56.8
A84-182026	WGBDYBf+Y	I	2.5	2.5	1.0	100	48.9
A84-183008	WGBDYBf	I	3.3	1.5	1.0	100	57.4
A84-183020	PGBDYIb+Bf	I	3.8	3.5	1.0	100	54.7
A84-183021	PGBDYIb+Bf	I	4.5	5.0	1.0	100	59.0
A84-183027	PG+TBDYBl+Ib	I	2.0	1.5	1.0	100	61.4
A84-184018	WG+TB+TDYBl	I	2.0	1.0	1.0	90	59.2
A84-184021	PGTDYIb+Bf	I	2.5	1.5	1.0	100	45.6
A84-184023	PTBDYGr	I	1.8	1.0	1.0	100	47.1
A84-184034	WTBDYBl	I	1.7	2.0	1.0	100	50.9
A84-185032	PGBDYY	I	3.7	4.5	1.0	100	60.1
E83024	PGBDYY	I	2.5	1.5	1.0	40	8.6
E83054	PGTSYIb	I	3.3	2.5	1.0	40	20.4
M81-77	WGTDYY	I	2.7	2.0	2.0	60	22.6
M81-248	WGBDYY	I	2.0	2.0	1.0	100	49.2
M81-380	PGBDYIb	I	3.5	1.5	1.0	90	28.7
M81-381	PTBDYBr	I	3.0	2.0	1.0	100	50.7
M81-382	PTBDYBl	I	2.7	1.5	1.0	90	52.4
M81-384	PGBDYIb	I	2.5	2.0	1.0	100	47.2
M81-395	PGBD or IYIb	I	3.0	2.0	1.0	60	17.9
M81-399	WGBSYBf	I	2.8	1.5	1.0	70	25.0
M81-454	PGBDYBf	I	2.2	1.0	1.0	80	30.2
M81-459	PGBDYBf	I	2.5	2.0	1.0	100	50.9
M81-564	WGBDYBf	I	2.7	1.5	1.0	100	61.3
M82-1065	PTBSYBr	I	3.0	3.0	1.0	70	16.5
W10186	PGBDYBr	I	2.2	2.0	1.0	100	46.3

PRELIMINARY TEST I, 1985

DISEASE DATA

Strain	PR		PS	PSB	SMV	Germ
	Ames	Lafayette	Lafayette			
	Race4	Race1	a	n	a	
	--- Reaction ---		%	%	Score	%
Elgin (II)	S	S	53	3	5E	83
Evans (0)	S	R	40	8	1	82
Hodgson 78 (I)	S	R	75	16	2E	71
A80-149020 (I)	S	S	67	12	2E	76
A84-181009	S	S	69	1	1	93
A84-181018	S	R	60	5	3M	93
A84-182007	S	S	24	7	5E	86
A84-182018	S	S	65	19	1	77
A84-182025	R	S	76	14	5E	60
A84-182026	S	R	89	7	3E	83
A84-183008	S	S	34	16	2E	84
A84-183020	S	S	60	25	5E	72
A84-183021	S	S	54	9	2E	89
A84-183027	S	S	65	9	2E	89
A84-184018	S	S	36	13	4E	85
A84-184021	S	R	67	38	1	54
A84-184023	S	S	95	27	4E	58
A84-184034	S	R	62	6	4M	70
A84-185032	S	R	70	16	5E	64
E83024	S	R	51	35	2M	55
E83054	S	S	70	1	3M	93
M81-77	S	R	45	5	3M	79
M81-248	S	R	41	12	2M	80
M81-380	S	R	36	14	2	77
M81-381	S	R	54	10	1	87
M81-382	S	R	70	24	1	66
M81-384	S	R	36	9	1	83
M81-395	S	R	49	16	1	74
M81-399	S	R	60	7	1	87
M81-454	S	R	55	15	1	83
M81-459	S	R	53	20	1	65
M81-564	S	R	39	9	1	89
M82-1065	S	S	6	12	1	78
W10186	S	S	60	21	1	71

PRELIMINARY TEST I, 1985

Regional Summary

Strain No. of Tests	Yield 7 bu/a	Rank 7 No.	Maturity 6 Date	Lodging 7 Score	Plant Height 7 In	Seed Quality 4 Score	Seed Size 5 g/100	Composition Protein 4 %	Oil 4 %
Elgin (II)	42.5	1	+9.5	2.0	34	2.6	18.6	39.5	20.4
Evans (0)	31.9	34	-6.8	1.2	30	2.8	15.8	39.2	21.4
Hodgson 78 (I)	35.3	31	9-20.3*	1.8	33	2.1	16.7	40.0	21.1
A80-149020 (I)	40.4	4	+10.5	1.6	34	2.7	17.5	39.8	20.3
A84-181009	37.6	21	+7.2	2.1	38	2.2	17.7	40.8	20.3
A84-181018	36.7	24	+3.7	1.8	36	2.5	16.3	42.3	20.0
A84-182007	38.3	14	+10.5	1.8	34	2.6	17.1	41.5	19.4
A84-182018	38.2	16	+4.7	1.9	33	2.4	15.2	41.3	19.0
A84-182025	39.9	7	+6.5	1.6	35	3.3	22.1	40.2	20.8
A84-182026	40.1	5	+9.3	1.5	34	3.0	16.2	39.9	20.3
A84-183008	37.3	23	+4.8	2.5	33	2.6	15.0	40.2	20.6
A84-183020	33.0	33	+5.5	2.5	35	3.4	13.9	40.8	20.5
A84-183021	39.2	10	+5.5	2.2	32	2.9	14.6	42.7	19.4
A84-183027	40.0	6	+11.6	2.1	37	2.8	18.3	40.3	20.7
A84-184018	37.7	20	+11.6	2.3	40	3.0	14.4	40.7	19.7
A84-184021	36.6	26	+15.0	2.8	39	3.9	16.5	40.5	20.0
A84-184023	36.4	28	+9.2	2.0	36	3.1	18.5	41.9	19.7
A84-184034	39.9	7	+12.0	2.6	41	3.1	15.8	40.5	20.2
A84-185032	39.9	7	+8.3	1.7	36	2.9	18.6	43.6	19.4
E83024	36.7	24	+5.7	1.7	35	2.4	17.8	38.7	21.5
E83054	38.1	17	+7.5	1.6	31	2.2	20.2	41.0	19.9
M81-77	38.6	13	+2.2	1.3	32	2.1	17.7	41.1	20.1
M81-248	38.3	14	+5.3	1.6	34	2.1	20.5	39.7	20.8
M81-380	37.8	19	+0.3	1.6	31	2.3	20.8	42.6	20.0
M81-381	41.1	3	+10.3	1.9	36	3.1	20.4	42.4	19.7
M81-382	39.0	11	+3.3	1.5	34	2.4	22.8	43.4	19.1
M81-384	42.5	1	+10.8	1.7	36	2.8	19.8	41.2	19.9
M81-395	35.9	30	+2.2	1.7	33	2.7	18.2	40.8	20.0
M81-399	38.0	18	+7.7	1.4	34	2.7	14.9	40.8	20.1
M81-454	37.6	21	+5.0	1.6	33	2.3	16.2	40.9	20.9
M81-459	36.5	27	+5.3	1.4	34	2.5	16.9	42.0	19.6
M81-564	38.9	12	+2.0	1.4	32	2.0	12.7	38.1	20.2
M82-1065	34.0	32	+3.8	2.5	31	2.4	17.4	41.4	19.4
W10186	36.2	29	-1.2	1.5	33	2.4	16.1	40.3	20.9

* 127 days after planting.

Several strains in this test matured too late for continued testing in UT I. The strains A84-181018, A84-182025, A84-184018, A84-184023, and M81-564 all had very good resistance to iron chlorosis.

PRELIMINARY TEST I, 1985

YIELD (bu/a)

Strain	Mean 7 Tests	Corwith IA	Manson IA	St. Charles MI	Lamber-ton MN	Waseca MN	Brookings SD	Arling-ton WI
Elgin (II)	42.5	45.2	49.5	43.6	45.1	37.1	40.4	36.8
Evans (O)	31.9	30.4	27.7	35.1	36.6	23.4	38.1	32.3
Hodgson 78 (I)	35.3	32.3	31.7	36.6	45.6	28.0	36.5	36.3
A80-149020 (I)	40.4	46.2	45.1	41.2	45.7	40.3	31.3	32.8
A84-181009	37.6	39.1	36.3	44.5	41.7	31.4	32.2	38.3
A84-181018	36.7	36.5	36.1	39.5	38.4	31.9	40.6	33.7
A84-182007	38.3	44.2	44.2	41.5	43.2	32.9	28.9	32.9
A84-182018	38.2	41.5	35.8	41.6	48.4	33.4	35.8	30.6
A84-182025	39.9	45.1	35.8	41.9	48.3	37.8	33.9	36.7
A84-182026	40.1	44.5	42.2	43.6	49.6	34.3	28.4	38.4
A84-183008	37.3	41.6	33.3	41.9	45.4	33.2	29.6	35.9
A84-183020	33.0	38.1	39.0	32.9	43.2	27.6	24.1	26.3
A84-183021	39.2	47.5	38.1	37.3	48.1	31.2	37.4	35.0
A84-183027	40.0	42.5	47.9	45.3	49.4	37.2	22.8	35.0
A84-184018	37.7	41.9	41.2	39.7	42.9	36.2	28.1	34.1
A84-184021	36.6	40.7	42.5	35.5	45.0	28.2	32.7	31.9
A84-184023	36.4	38.9	45.6	34.7	45.5	32.8	28.1	29.4
A84-184034	39.9	46.0	43.2	45.3	47.9	32.8	30.8	33.6
A84-185032	39.9	42.2	43.1	39.8	47.0	33.2	37.4	36.3
E83024	36.7	38.9	36.8	35.5	45.5	30.8	33.0	36.6
E83054	38.1	45.4	36.9	37.9	43.0	35.5	33.3	34.8
M81-77	38.6	42.4	36.2	37.6	44.0	31.9	42.5	35.9
M81-248	38.3	43.4	36.7	41.1	40.5	35.5	37.6	33.3
M81-380	37.8	38.9	33.7	40.7	44.2	33.2	38.7	35.0
M81-381	41.1	48.9	35.9	41.1	46.7	38.0	36.9	40.3
M81-382	39.0	41.3	32.6	41.5	43.5	34.9	41.5	37.4
M81-384	42.5	50.4	44.8	44.2	46.4	39.7	31.8	39.9
M81-395	35.9	39.6	33.5	35.5	41.1	30.2	36.2	35.0
M81-399	38.0	40.0	34.7	40.6	48.9	32.1	36.0	33.8
M81-454	37.6	39.6	43.5	30.5	42.8	31.4	38.8	36.5
M81-459	36.5	38.6	33.8	40.4	45.0	30.0	34.4	33.5
M81-564	38.9	42.1	41.1	39.5	43.8	27.2	41.6	37.1
M82-1065	34.0	37.7	33.2	32.6	40.5	27.1	32.1	34.8
W10186	36.2	37.4	32.6	39.0	40.6	30.2	39.2	34.7
C.V. (%)		7.0	10.7	10.5	6.1	9.0	7.9	8.1
L.S.D. (5%)		5.9	8.2	NS	5.6	6.0	5.5	5.7
Row Sp. (in)		27	27	20	30	30	30	30
Rows/Plot		4	4	4	2	2	4	4
Reps		2	2	4	2	2	2	-

PRELIMINARY TEST I, 1985

YIELD RANK

Strain	Yield Rank	Corwith IA	Manson IA	St. Charles MI	Lamber-ton MN	Waseca MN	Brookings SD	Arling-ton WI
Elgin (I)	1	7	1	5	16	6	5	7
Evans (O)	34	34	34	30	34	34	9	30
Hodgson 78 (I)	31	33	33	26	12	30	14	11
A80-149020 (I)	4	4	4	12	11	1	26	29
A84-181009	21	24	19	3	28	22	23	4
A84-181018	24	32	21	20	33	20	4	24
A84-182007	14	10	6	10	23	16	29	28
A84-182018	16	18	23	9	4	12	17	32
A84-182025	7	8	23	7	5	4	19	8
A84-182026	5	9	11	5	1	11	30	3
A84-183008	23	17	29	7	15	13	28	13
A84-183020	33	29	14	33	23	31	33	34
A84-183021	10	3	15	25	6	24	11	15
A84-183027	6	12	2	1	2	5	34	15
A84-184018	20	16	12	19	26	7	31	22
A84-184021	26	20	10	27	17	29	22	31
A84-184023	28	25	3	31	13	17	31	33
A84-184034	7	5	8	1	7	17	27	25
A84-185032	7	14	9	18	8	13	11	11
E83024	24	25	17	27	13	25	21	9
E83054	17	6	16	23	25	8	20	19
M81-77	13	13	20	24	20	20	1	13
M81-248	14	11	18	13	31	8	10	27
M81-380	19	25	27	15	19	13	8	15
M81-381	3	2	22	18	9	3	13	1
M81-382	11	19	31	10	22	10	3	5
M81-384	1	1	5	4	10	2	25	2
M81-395	30	22	28	27	29	26	15	15
M81-399	18	21	25	16	3	19	16	23
M81-454	21	22	7	34	27	22	7	10
M81-459	27	28	26	17	17	28	18	26
M81-564	12	15	13	20	21	32	2	6
M82-1065	32	30	30	32	31	33	24	19
W10186	29	31	31	22	30	26	6	21

PRELIMINARY TEST I, 1985

MATURITY (Date)

Strain	Mean 6 Tests	Corwith IA	Manson IA	St. Charles MI	Lamber-ton MN	Waseca MN	Brookings ● SD	Arling-ton WI
Elgin (II)	+9.5	+10		+9	+7	+12	+5	+14
Evans (0)	-6.8	-8		-2	-6	-6	-10	-9
Hodgson 78 (I)	9-20.3	9-10		9-27	9-18	9-17	9-29	9-21
A80-149020 (I)	+10.5	+12		+10	+7	+14	+6	+14
A84-181009	+7.2	+9		+9	+6	+5	+5	+9
A84-181018	+3.7	+2		+3	-1	+4	+2	+12
A84-182007	+10.5	+12		+9	+10	+11	+9	+12
A84-182018	+4.7	+8		+4	+4	+5	+3	+4
A84-182025	+6.5	+8		+7	+3	+5	+5	+11
A84-182026	+9.3	+10		+8	+8	+11	+5	+14
A84-183008	+4.8	+9		+3	+7	+2	+2	+6
A84-183020	+5.5	+8		+6	+8	+2	+5	+4
A84-183021	+5.5	+8		+5	+8	+3	+5	+4
A84-183027	+11.6	+10		+10	F	+12	+12	+14
A84-184018	+11.6	+12		+12	F	+11	+8	+15
A84-184021	+15.0	+20		+14	F	+14	+11	+16
A84-184023	+9.2	+8		+9	+11	+8	+8	+11
A84-184034	+12.0	+12		+12	F	+11	+10	+15
A84-185032	+8.3	+10		+6	+7	+5	+7	+15
E83024	+5.7	+8		+7	+6	+3	+4	+6
E83054	+7.5	+8		+8	+8	+6	+5	+10
M81-77	+2.2	+6		+3	0	+2	+1	+1
M81-248	+5.3	+8		+5	+2	+4	+3	+10
M81-380	+0.3	-2		+2	-2	+2	+1	+1
M81-381	+10.3	+10		+11	-18	+11	+7	+15
M81-382	+3.3	+2		+3	+2	+4	+2	+7
M81-384	+10.8	+10		+12	+10	+11	+8	+14
M81-395	+2.2	+4		+3	+2	+1	+2	+1
M81-399	+7.7	+9		+9	+8	+5	+6	+9
M81-454	+5.0	+6		+7	+3	+2	+4	+8
M81-459	+5.3	+8		+5	+6	+2	+5	+6
M81-564	+2.0	+4		+2	-1	+2	+1	+4
M82-1065	+3.8	+6		+6	+2	+1	+2	+6
W10186	-1.2	-2		-2	-2	+1	-2	0
Date Planted	5-16	5-9		5-23	5-9	5-13	5-21	5-21
Days to Mature	127	124		127	132	127	131	123

PRELIMINARY TEST I, 1985

LODGING (Score)

Strain	Mean 7 Tests	Corwith IA	Manson IA	St. Charles MI	Lamber-ton MN	Waseca MN	Brookings SD	Arling-ton WI
Elgin (II)	2.0	1.9	1.5	1.0	1.5	2.5	2.0	3.8
Evans (0)	1.2	1.4	1.0	1.0	1.0	1.1	1.0	1.8
Hodgson 78 (I)	1.8	1.9	1.3	1.5	1.0	2.0	2.0	3.0
A80-149020 (I)	1.6	1.9	1.3	1.0	1.0	1.5	2.0	2.8
A84-181009	2.1	2.3	1.4	2.0	2.0	2.0	2.5	2.5
A84-181018	1.8	1.7	1.1	2.0	1.0	2.0	2.0	3.0
A84-182007	1.8	1.8	1.3	1.5	1.5	2.0	2.0	2.3
A84-182018	1.9	2.3	1.3	2.5	1.0	1.5	2.0	2.8
A84-182025	1.6	1.7	1.1	1.0	1.0	1.0	2.5	3.0
A84-182026	1.5	1.9	1.2	1.5	1.0	1.0	1.5	2.5
A84-183008	2.5	3.3	1.1	2.0	2.0	3.0	2.5	3.3
A84-183020	2.5	2.5	1.5	2.5	2.0	2.5	3.5	2.8
A84-183021	2.2	2.3	1.3	2.0	1.5	2.5	2.5	3.0
A84-183027	2.1	2.0	1.4	1.5	2.0	2.5	2.0	3.3
A84-184018	2.3	2.6	1.2	2.0	2.5	1.5	3.0	3.0
A84-184021	2.8	3.3	1.7	3.5	2.5	2.0	2.5	4.0
A84-184023	2.0	1.9	1.3	2.0	2.0	1.5	2.0	3.0
A84-184034	2.6	3.1	1.4	2.5	2.5	2.5	3.0	3.5
A84-185032	1.7	2.3	1.2	1.5	1.5	1.0	1.5	2.8
E83024	1.7	2.0	1.3	2.0	1.0	1.0	2.0	2.3
E83054	1.6	1.8	1.3	1.0	1.0	2.0	2.0	2.3
M81-77	1.3	2.0	1.1	1.0	1.0	1.0	1.0	2.3
M81-248	1.6	2.1	1.1	1.5	1.0	1.0	2.0	2.8
M81-380	1.6	1.9	1.3	1.0	1.0	1.5	1.5	2.8
M81-381	1.9	1.9	1.2	2.0	1.5	2.0	2.0	3.0
M81-382	1.5	1.7	1.3	1.5	1.0	1.0	1.5	2.5
M81-384	1.7	1.9	1.3	1.5	1.0	2.0	2.0	2.5
M81-395	1.7	1.9	1.3	1.5	1.0	2.0	2.0	2.5
M81-399	1.4	1.5	1.1	1.5	1.0	1.5	1.0	2.0
M81-454	1.6	1.6	1.3	1.5	1.0	1.5	1.5	2.5
M81-459	1.4	1.9	1.1	1.0	1.0	1.0	1.5	2.0
M81-564	1.4	1.7	1.2	1.0	1.0	1.0	1.5	2.3
M82-1065	2.5	3.3	1.8	2.0	2.0	2.5	2.5	3.3
W10186	1.5	1.8	1.3	1.0	1.0	1.5	1.5	2.5

PRELIMINARY TEST I, 1985

PLANT HEIGHT (Inches)

Strain	Mean 7 Tests	Corwith IA	Manson IA	St. Charles MI	Lamber-ton MN	Waseca MN	Brookings SD	Arling-ton WI
Elgin (II)	34	36	30	32	38	32	35	32
Evans (O)	30	32	26	33	32	23	36	27
Hodgson 78 (I)	33	36	28	35	36	27	36	34
A80-149020 (I)	34	40	32	34	35	31	37	29
A84-181009	38	44	34	42	41	31	41	33
A84-181018	36	47	30	34	36	31	40	35
A84-182007	34	39	31	34	35	32	38	30
A84-182018	33	42	30	33	34	31	35	28
A84-182025	35	40	28	37	33	32	39	34
A84-182026	34	42	28	37	34	32	36	29
A84-183008	33	36	28	33	35	31	36	30
A84-183020	35	39	33	33	37	32	41	28
A84-183021	32	38	28	29	35	31	35	25
A84-183027	37	42	33	37	40	34	40	34
A84-184018	40	43	33	41	45	37	45	34
A84-184021	39	47	35	39	42	36	43	34
A84-184023	36	40	34	36	39	34	39	32
A84-184034	41	48	37	43	41	39	45	36
A84-185032	36	46	32	34	35	35	34	36
E83024	35	39	32	39	35	32	40	31
E83054	31	36	26	31	34	31	34	28
M81-77	32	38	27	31	34	29	35	28
M81-248	34	40	28	33	36	32	37	35
M81-380	31	35	26	31	34	25	35	29
M81-381	36	40	28	39	41	33	38	34
M81-382	34	39	28	39	36	31	36	31
M81-384	36	42	28	36	36	33	42	33
M81-395	33	39	29	36	33	28	36	30
M81-399	34	38	28	35	36	31	38	34
M81-454	33	36	30	32	33	31	36	31
M81-459	34	38	29	36	35	31	40	30
M81-564	32	36	29	31	34	30	36	27
M82-1065	31	32	31	27	34	30	37	28
W10186	33	38	30	35	34	30	36	29

PRELIMINARY TEST I, 1985

SEED QUALITY (Score)

Strain	Mean 4 Tests	Corwith IA	Manson IA	St. Charles MI	Lamber-ton MN	Waseca MN	Brookings SD	Arling-ton WI
Elgin (II)	2.6	1.5				1.7	4.0	3.0
Evans (O)	2.8	2.3				3.0	2.0	4.0
Hodgson 78 (I)	2.1	1.7				1.7	2.0	3.0
A80-149020 (I)	2.7	1.5				2.3	4.0	3.0
A84-181009	2.2	1.6				2.0	3.0	2.0
A84-181018	2.5	1.6				2.3	2.0	4.0
A84-182007	2.6	1.5				1.7	3.0	4.0
A84-182018	2.4	1.7				2.0	3.0	3.0
A84-182025	3.3	2.3				3.0	4.0	4.0
A84-182026	3.0	1.6				2.3	4.0	4.0
A84-183008	2.6	2.5				2.0	3.0	3.0
A84-183020	3.4	1.7				2.7	5.0	4.0
A84-183021	2.9	1.6				2.0	4.0	4.0
A84-183027	2.8	1.6				2.7	4.0	3.0
A84-184018	3.0	1.5				2.3	4.0	4.0
A84-184021	3.9	2.7				2.7	5.0	5.0
A84-184023	3.1	1.8				2.7	5.0	3.0
A84-184034	3.1	1.4				2.0	5.0	4.0
A84-185032	2.9	1.4				2.3	3.0	5.0
E83024	2.4	1.7				1.7	3.0	3.0
E83054	2.2	1.6				1.3	3.0	3.0
M81-77	2.1	1.5				2.0	2.0	3.0
M81-248	2.1	1.6				1.7	2.0	3.0
M81-380	2.3	1.5				2.7	1.0	4.0
M81-381	3.1	1.5				3.0	4.0	4.0
M81-382	2.4	1.5				2.0	3.0	3.0
M81-384	2.8	1.6				2.7	4.0	3.0
M81-395	2.7	1.7				2.0	3.0	4.0
M81-399	2.7	1.6				2.0	4.0	3.0
M81-454	2.3	1.5				1.7	3.0	3.0
M81-459	2.5	1.6				2.3	3.0	3.0
M81-564	2.0	1.6				2.3	2.0	2.0
M82-1065	2.4	1.6				2.0	3.0	3.0
W10186	2.4	1.7				2.0	2.0	4.0

PRELIMINARY TEST I, 1985

SEED SIZE (g/100)

Strain	Mean 5 Tests	Corwith IA	Manson IA	St. Charles MI	Lamber-ton MN	Waseca MN	Brookings SD	Arling-ton WI
Elgin (II)	18.6	17.4		19.3		18.3	20.0	17.9
Evans (O)	15.8	14.9		16.5		15.3	16.5	15.7
Hodgson 78 (I)	16.7	15.7		17.3		16.5	18.3	15.8
A80-149020 (I)	17.5	17.1		17.7		17.6	17.5	17.8
A84-181009	17.7	17.3		19.3		16.6	18.8	16.3
A84-181018	16.3	15.5		16.1		17.2	17.7	15.2
A84-182007	17.1	17.4		17.0		16.7	17.5	16.7
A84-182018	15.2	14.6		16.1		14.5	16.7	14.2
A84-182025	22.1	22.0		22.6		21.0	23.4	21.6
A84-182026	16.2	15.9		17.2		16.2	16.2	15.6
A84-183008	15.0	14.7		15.7		15.3	14.7	14.4
A84-183020	13.9	14.2		15.1		13.3	14.8	11.9
A84-183021	14.6	14.7		15.2		13.8	15.4	14.0
A84-183027	18.3	17.7		20.0		18.0	18.3	17.7
A84-184018	14.4	15.0		14.9		14.0	14.5	13.7
A84-184021	16.5	17.5		16.8		16.9	15.9	15.6
A84-184023	18.5	18.9		19.6		16.4	20.1	17.3
A84-184034	15.8	16.5		16.7		15.9	16.2	13.5
A84-185032	18.6	19.3		19.2		17.3	20.0	17.1
E83024	17.8	17.2		18.9		17.4	19.5	16.1
E83054	20.2	20.7		21.4		18.2	20.6	20.1
M81-77	17.7	18.0		18.5		16.9	18.9	16.1
M81-248	20.5	20.2		20.8		20.6	20.8	20.0
M81-380	20.8	19.5		21.5		19.8	22.6	20.8
M81-381	20.4	20.0		21.1		19.5	21.7	19.5
M81-382	22.8	21.1		23.9		21.6	24.6	22.6
M81-384	19.8	19.6		20.2		19.5	20.3	19.3
M81-395	18.2	18.2		18.6		17.6	19.2	17.6
M81-399	14.9	14.7		16.6		13.6	15.6	13.8
M81-454	16.2	16.1		16.4		15.7	16.9	15.9
M81-459	16.9	17.2		17.9		15.6	18.3	15.3
M81-564	12.7	12.1		12.9		12.3	14.0	12.3
M82-1065	17.4	17.3		18.9		16.5	19.2	15.0
W10186	16.1	15.3		16.8		15.4	17.3	15.9

PRELIMINARY TEST I, 1985

PROTEIN (%)

Strain	Mean 4 Tests	Corwith IA	Waseca MN	Brookings SD	Madison WI
Elgin (II)	39.5	38.0	36.5	40.7	42.9
Evans (0)	39.2	39.5	36.4	40.8	40.2
Hodgson 78 (I)	40.0	38.8	37.0	41.1	43.1
A80-149020 (I)	39.8	38.9	38.9	39.7	41.8
A84-181009	40.8	39.9	39.6	42.1	41.7
A84-181018	42.3	42.0	38.8	44.2	44.1
A84-182007	41.5	40.5	40.3	41.4	43.7
A84-182018	41.3	40.8	39.8	41.7	42.7
A84-182025	40.2	39.5	37.6	41.4	42.2
A84-182026	39.9	38.9	38.2	40.5	42.0
A84-183008	40.2	39.4	38.3	41.9	41.0
A84-183020	40.8	39.2	39.1	41.0	43.9
A84-183021	42.7	42.4	41.0	43.1	44.3
A84-183027	40.3	38.5	39.8	40.6	42.2
A84-184018	40.7	39.1	39.5	41.5	42.8
A84-184021	40.5	40.0	38.8	40.1	43.1
A84-184023	41.9	41.9	39.7	41.4	44.5
A84-184034	40.5	38.3	39.9	40.8	42.9
A84-185032	43.6	42.7	42.6	43.6	45.3
E83024	38.7	37.4	38.3	39.3	39.9
E83054	41.0	40.2	38.7	42.9	42.1
M81-77	41.1	40.5	38.7	41.4	43.7
M81-248	39.7	37.6	39.0	40.4	41.7
M81-380	42.6	41.5	40.8	42.7	45.4
M81-381	42.4	41.3	40.3	44.0	44.1
M81-382	43.4	41.8	42.1	44.5	45.2
M81-384	41.2	40.4	39.6	41.0	43.8
M81-395	40.8	40.2	37.6	42.9	42.5
M81-399	40.8	38.6	40.3	41.8	42.4
M81-454	40.9	38.8	39.2	42.7	43.0
M81-459	42.0	40.8	40.0	43.0	44.0
M81-564	38.1	36.8	36.9	39.6	39.0
M82-1065	41.4	40.5	39.7	42.8	42.6
W10186	40.3	39.1	37.9	41.8	42.4

PRELIMINARY TEST I, 1985

OIL (%)

Strain	Mean 4 Tests	Corwith IA	Waseca MN	Brookings SD	Madison WI
Elgin (II)	20.4	21.2	21.9	19.0	19.4
Evans (O)	21.4	21.9	22.0	19.9	21.7
Hodgson 78 (I)	21.1	22.4	22.5	19.9	19.7
A80-149020 (I)	20.3	21.1	20.7	19.4	19.8
A84-181009	20.3	21.1	20.6	18.9	20.5
A84-181018	20.0	21.0	21.3	18.6	19.1
A84-182007	19.4	19.7	20.3	18.4	19.1
A84-182018	19.0	19.6	19.9	18.2	18.3
A84-182025	20.8	21.8	22.3	19.1	20.0
A84-182026	20.3	21.3	21.0	19.1	19.7
A84-183008	20.6	21.7	21.0	19.0	20.5
A84-183020	20.5	21.9	20.9	20.1	18.9
A84-183021	19.4	20.5	19.9	18.1	19.1
A84-183027	20.7	22.6	20.5	19.8	19.5
A84-184018	19.7	20.9	20.2	18.5	19.2
A84-184021	20.0	20.4	20.7	19.6	19.4
A84-184023	19.7	20.6	20.5	19.1	18.4
A84-184034	20.2	21.6	20.8	19.6	18.9
A84-185032	19.4	20.1	19.4	19.0	18.9
E83024	21.5	22.6	21.5	20.3	21.6
E83054	19.9	20.4	21.1	18.2	20.0
M81-77	20.1	20.9	21.2	18.8	19.3
M81-248	20.8	22.2	21.2	19.8	20.1
M81-380	20.0	20.4	20.6	19.5	19.4
M81-381	19.7	20.4	20.6	18.3	19.3
M81-382	19.1	20.1	19.8	17.5	18.8
M81-384	17.9	20.7	20.4	19.4	18.9
M81-395	20.0	20.2	21.7	17.9	20.0
M81-399	20.1	21.4	20.3	18.8	19.9
M81-454	20.9	22.5	21.7	19.6	19.8
M81-459	19.6	21.0	20.0	18.0	19.3
M81-564	20.2	21.8	19.9	18.6	20.3
M82-1065	19.4	20.5	20.0	18.8	18.2
W10186	20.9	22.5	21.9	19.0	20.1

UNIFORM TEST II, 1985

Strain	Parentage	Previous Testing*	Generation Composited
Century 84	Century^{5} x Williams 82	3	BC_4F_3
Elgin (II)	AP6(2YT) (F_4)C1	4	F_4
Elgin BC	Elgin^{5} x Williams 82	-	BC_4F_2
Gnome 85	Gnome^{6} x Williams 82	1	BC_5F_3
Zane (III)	Cumberland x Pella	-	F_5
A80-149020 (1)	L69U40-16-4 x A76-304020	2	F_4
A82-267015	AP6M TW 2YT (F_4) C2	1	F_4
A83-271010	NK S1492 x Mershman Washington V	PT IIA	F_4
A83-271027	NK S1492 x Asgrow A3127	PT IIA	F_4
A83-272020	Agripro AP200 x NAPB Ex 4380	PT IIA	F_4
A83-273009	Asgrow A3127 x Tri-Valley Charger	PT IIA	F_4
C1627	Century x Hodgson	1	F_5
HA82-168018	Pella x A77-314013	PT IIA	F_5
HC78-523	Harcor x Elf	3	F_5
HC80-1756	L73U-632 x Elf	PT IIB	F_5
HC80-1944	L73U-632 x Elf	PT IIB	F_5
HC80-1946	L73U-632 x Elf	PT IIB	F_5
HW8223	(Cumberland x Century) x (A76-202015 x A76-304020)	1	F_5
LN80-10508	Century x Land o'Lakes Max	PT IIB	F_4
LN81-1029	K74-114-75-000 x Pella	PT IIB	F_4
LN81-1044	K74-114-75-000 x Pella	PT IIIA	F_4

* Number of years in test or name of 1984 test.

UNIFORM TEST II, 1985

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score		Emergence Score	Shattering Score	DM PM Urbana -Score		BTS Ames a Score
			Ames	Waseca	Ames	Manhattan			
Century 84	PTBSYBl	I	2.7	3.2	3	1.0	2.0	1	3
Elgin (II)	PTBSYBl	I	4.0	3.8	4	1.0	1.5	1	4
Elgin BC	PTBSYBl	I	3.0	3.8	5	1.0	1.0	1	4
Gnome 85	PTTDYBl	D	2.8	4.0	1	1.0	1.0	1	2
Zane (III)	PGBDYBf	I	3.0	3.0	5	1.0	2.0	3	3
A80-149020 (I)	PGTDYIb	I	2.3	4.2	1	1.0	1.0	1	3
A82-267015	WGBDYY	I	3.5	3.8	1	1.0	2.5	3	2
A83-271010	WGBDYBl	I	4.5	5.0	2	2.0	2.5	1	5
A83-271027	WTBDYIb	I	4.0	4.8	2	1.0	3.0	1	2
A83-272020	WGBbYBf	I	3.8	3.2	2	1.0	2.5	1	2
A83-273009	PTTDYBr	I	4.3	4.8	3	1.0	1.0	1	3
C1627	PGBDYIb	I	3.5	3.0	3	1.0	2.0	2	3
HA82-168018	PTBDYBl	I	4.3	4.2	5	1.0	2.5	1	3
HC78-523	PTTSYBl	D	4.0	4.0	2	1.0	1.0	1	3
HC80-1756	WTTDYBl	D	3.5	3.8	2	1.0	1.0	1	3
HC80-1944	WTTDYBl	D	3.0	3.0	1	1.0	1.0	1	3
HC80-1946	PTTDYBl	D	3.0	3.0	2	1.0	1.0	1	3
HW8223	PGBSYIb	I	3.5	3.0	5	1.0	2.0	1	3
LN80-10508	PTBSYBl	I	3.3	2.2	2	1.0	2.0	1	3
LN81-1029	WGTDYBf	I	3.0	2.5	3	1.0	2.0	1	3
LN81-1044	WGTDYBf	I	3.0	3.5	3	1.0	1.5	1	3

UNIFORM TEST II, 1985

DISEASE DATA

Strain	BSR Ames Plant N %	BSR Ames Stem N %	PR Ames Race4 - Reaction -	PR Lafayette Race1 - Reaction -	PR Vickery Tolerance Score	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a Score	Germ %
Century 84	80	37.7	R	R	2.8	40	16	4E	80
Elgin (II)	70	32.0	S	S	3.6	53	3	5E	83
Elgin BC	70	32.6	R	H	3.1	51	7	5E	80
Gnome 85	90	53.5	R	R	3.3	31	0	2M	92
Zane (III)	80	25.5	S	H	3.3	54	10	4E	86
A80-149020 (I)	20	3.2	S	R	3.4	67	12	2E	76
A82-267015	90	44.8	S	H	3.5	58	12	2E	66
A83-271010	80	34.7	S	H	3.4	73	12	2E	82
A83-271027	70	20.1	S	S	3.0	38	12	4E	86
A83-272020	100	57.5	S	S	3.1	89	26	1	74
A83-273009	60	28.5	S	S	3.1	76	22	4E	76
C1627	100	60.4	S	S	2.9	76	30	4E	72
HA82-168018	80	35.1	S	R	3.0	59	26	3M	68
HC78-523	80	17.7	S	R	3.5	32	2	5E	96
HC80-1756	80	47.4	R	R	3.4	47	6	4E	94
HC80-1944	80	34.0	R	R	3.3	37	2	4E	96
HC80-1946	90	52.9	R	R	3.4	30	2	3E	94
HW8223	100	49.2	H	R	2.8	26	8	5	88
LN80-10508	90	38.1	R	R	3.3	59	8	5E	90
LN81-1029	100	75.5	H	H	3.0	85	6	2M	88
LN81-1044	90	52.8	R	R	2.9	75	8	3E	92

UNIFORM TEST II, 1985

Regional Summary

Strain No. of Tests	Yield 21 bu/a	Rank 21 No.	Maturity 20 Date	Lodging 21 Score	Plant Height 21 In	Seed Quality 18 Score	Seed Size 20 g/100	Composition Protein 3 %	 Oil 3 %
Century 84	45.1	14	+4.6	1.2	35	2.1	19.3	43.0	20.4
Elgin (II)	47.3	5	9-25.4	1.7	31	1.9	19.3	37.4	23.1
Elgin BC	48.6	2	+1.3	1.8	31	2.0	19.0	37.7	22.7
Gnome 85	43.5	20	+5.4	1.5	24	1.7	17.1	41.6	21.2
Zane (III)	47.9	3	+5.4	1.7	36	1.9	20.1	40.2	22.6
A80-149020 (I)	45.2	11	-0.7	1.4	32	2.3	18.4	38.9	21.5
A82-267015	44.1	18	+1.5	2.2	36	2.1	17.2	40.0	21.7
A83-271010	47.4	4	+2.9	1.6	32	2.2	18.0	39.9	21 5
A83-271027	45.5	8	+5.3	1.9	34	2.0	15.8	42.1	21.6
A83-272020	45.8	7	+6.5	2.3	39	2.1	20.5	36.4	23.5
A83-273009	49.1	1	+1.2	1.7	32	1.9	17.4	39.1	22.0
C1627	45.2	11	+5.5	2.0	37	2.1	18.5	41.6	21.2
HA82-168018	45.5	8	+1.9	1.8	37	2.0	20.4	40.5	22.0
HC78-523	45.3	10	+3.1	1.8	25	2.0	14.7	41.6	21.6
HC80-1756	45.0	15	+1.7	1.5	26	1.9	16.9	41.5	21.5
HC80-1944	44.5	17	+5.5	1.4	26	1.8	18.7	43.1	20.4
HC80-1946	43.6	19	+3.3	1.7	28	1.9	17.9	41.9	21.6
HW8223	43.2	21	+5.9	1.9	37	2.1	18.7	40.9	21.7
LN80-10508	46.1	6	+6.6	1.9	36	2.2	18.8	40.9	20.9
LN81-1029	45.0	15	+5.6	1.6	36	2.1	18.3	40.9	21.4
LN81-1044	45.2	11	+5.4	1.5	34	1.9	18.0	40.7	21.7

* 131 Days After Planting

UNIFORM TEST II, 1985

1984-1985 2-YEAR MEAN

Strain No. of Tests	Yield 41 bu/a	Rank 41 No.	Maturity 40 Date	Lodging 42 Score	Plant Height 42 In	Seed Quality 36 Score	Seed Size 39 g/100	Composition Protein 8 %	Oil 8 %
Century 84	44.0	6	+3.6	1.4	34	1.9	18.4	42.6	20.5
Elgin (II)	46.6	1	9-23.0*	1.8	32	1.8	17.8	37.7	22.4
Gnome 85	42.4	8	+6.1	1.6	24	1.8	16.1	41.6	20.9
A80-149020 (I)	44.5	4	-1.6	1.4	32	2.0	17.5	39.0	21.4
A82-267015	45.4	3	+1.6	2.1	36	2.0	16.7	40.2	21.6
C1627	45.8	2	+4.8	2.0	36	2.0	17.8	40.8	21.5
HC78-523	43.8	7	+3.2	1.6	24	2.0	14.2	41.0	21.4
HW8223	44.4	5	+5.6	1.9	37	2.0	18.4	40.2	21.9

* 127 Days After Planting

1982-1985 4-YEAR MEAN

No. of Tests	85	85	83	88	88	76	83	17	17
Century 84	45.2	2	+2.6	1.4	34	1.9	17.9	42.0	20.3
Elgin (II)	46.9	1	9-22.3*	1.8	31	1.9	16.5	37.6	22.0
Gnome + Gn85	42.4	4	+5.8	1.6	23	1.7	15.4	41.0	20.8
HC78-523	44.9	3	+3.4	1.6	24	2.0	13.7	39.5	21.2

* 124 Days After Planting

The performance of Elgin BC was very similar to that of Elgin in 1985. Only one strain, A83-273009, had a higher mean seed yield than Elgin in 1985.

UNIFORM TEST II, 1985

YIELD (bu/a)

Strain	Mean 21 Tests	Ames IA	Marshall-town IA	Dekalb IL	Pontiac IL	Urbana IL	Bluff-ton IN	Lafayette IN	Britton MI	St. Charles MI	Lamber ton MN
Century 84	45.1	47.4	37.7	67.9	68.9	66.7	41.8	45.1	46.1	40.1	41.4
Elgin (II)	47.3	47.4	38.0	72.3	68.1	68.5	40.8	52.1	50.3	44.3	48.4
Elgin BC	48.6	47.0	40.5	69.1	68.9	72.7	43.2	51.3	51.4	44.1	45.9
Gnome 85	43.5	43.0	36.3	59.4	65.3	69.4	43.9	47.9	42.0	34.6	39.1
Zane (III)	47.9	41.6	45.7	71.1	68.9	80.3	41.1	48.5	51.4	45.9	45.3
A80-149020 (I)	45.2	43.3	37.5	61.8	62.0	71.9	30.9	49.7	50.3	44.0	44.8
A82-267015	44.1	42.3	35.3	62.2	68.5	70.6	41.2	49.3	47.6	44.7	42.3
A83-271010	47.4	45.9	36.5	71.9	72.3	75.9	37.0	59.2	50.3	40.8	45.7
A83-271027	45.5	44.2	36.7	69.0	73.7	72.4	39.9	57.2	47.5	36.1	43.0
A83-272020	45.8	45.4	34.0	67.1	67.0	73.9	33.5	55.7	48.9	44.8	38.7
A83-273009	49.1	47.7	39.8	69.0	72.5	74.7	40.9	54.3	54.7	45.8	45.6
C1627	45.2	43.4	34.0	68.3	68.5	70.4	45.3	49.0	48.7	37.6	38.0
HA82-168018	45.5	43.6	42.1	67.4	57.6	69.3	46.5	46.9	44.0	40.3	43.7
HC78-523	45.3	46.4	36.2	62.7	64.4	67.0	40.3	51.8	50.2	41.6	45.7
HC80-1756	45.0	48.8	37.9	67.0	57.3	65.6	43.9	48.9	48.0	43.7	45.7
HC80-1944	44.5	45.8	39.9	62.6	59.5	63.3	42.9	42.7	50.7	38.6	40.3
HC80-1946	43.6	45.5	33.6	63.8	58.2	63.5	36.8	45.4	47.8	42.0	41.8
HW8223	43.2	37.7	37.8	68.3	66.9	69.5	40.8	50.7	43.1	38.1	40.0
LN80-10508	46.1	46.7	36.0	68.5	70.4	75.1	46.1	53.4	49.3	40.0	42.2
LN81-1029	45.0	46.2	37.5	67.0	65.3	71.5	31.2	53.6	47.7	41.3	37.9
LN81-1044	45.2	42.8	33.7	67.6	68.8	73.5	36.0	47.8	50.1	42.4	43.7
C.V. (%)		6.3	8.4	4.7	5.9	4.2	18.6	7.7	8.0	10.0	6.9
L.S.D. (5%)		3.9	4.4	5.1	8.1	4.8	9.5	5.2	5.5	5.9	4.9
Row Sp. (In.)		27	27	30	30	30	15	24	20	20	30
Rows/Plot		4	4	4	4	4	5	4	4	4	4
Reps		4	4	3	2	3	3	3	4	4	3

UNIFORM TEST II, 1985

YIELD (bu/a)

Strain	Waseca MN	Mead NE	Adelphia NJ	Hoyt-ville OH	Wooster OH	Harrow ONT	Ridge-town ONT	State College PA	Brookings SD	Center-ville SD	Arling-ton WI
Century 84	35.5	43.2	51.6	49.0	25.7	60.7	35.1	29.8	31.3	48.5	34.4
Elgin (II)	39.2	45.7	47.4	46.9	26.3	64.2	33.4	25.4	43.8	51.0	40.2
Elgin BC	36.2	48.2	51.8	51.3	31.9	61.2	39.1	29.8	45.3	51.4	39.9
Gnome 85	27.3	46.6	62.7	48.1	31.1	52.3	29.4	32.1	28.6	39.8	34.2
Zane (III)	42.5	46.0	50.4	48.6	34.2	67.3	32.8	30.8	33.0	45.5	34.9
A80-149020 (I)	45.4	46.8	45.5	40.7	20.4	60.2	33.8	29.7	40.0	48.8	41.6
A82-267015	33.6	47.5	46.9	45.2	29.8	55.5	30.3	25.0	33.9	42.5	31.9
A83-271010	41.2	49.6	50.1	47.0	24.6	60.8	35.2	26.3	37.7	49.2	37.5
A83-271027	37.9	46.0	49.3	47.3	20.2	60.7	34.2	29.6	32.0	44.2	35.1
A83-272020	36.0	42.8	55.1	45.1	36.8	61.6	31.4	30.1	32.2	50.2	31.6
A83-273009	47.0	48.8	52.2	46.7	18.7	67.8	37.9	29.0	51.9	48.1	37.2
C1627	33.3	51.4	57.9	48.7	37.6	62.0	29.8	27.6	27.1	41.0	29.4
HA82-168018	38.6	42.9	48.6	41.2	31.0	58.0	37.9	30.5	37.8	47.8	39.0
HC78-523	38.1	41.8	51.8	43.1	29.2	55.8	32.6	28.8	34.6	48.8	40.7
HC80-1756	33.1	45.9	47.5	45.3	26.0	58.1	29.1	29.5	34.6	48.9	40.0
HC80-1944	34.8	47.0	53.6	43.7	34.2	55.0	34.0	31.2	31.6	44.3	38.4
HC80-1946	32.8	46.2	52.9	46.7	28.6	50.4	28.7	33.4	31.7	48.6	37.2
HW8223	30.0	47.2	52.4	46.6	27.4	56.7	31.9	28.0	23.4	40.8	29.0
LN80-10508	37.4	48.9	49.4	43.7	29.7	59.3	27.8	28.8	32.7	48.3	35.0
LN81-1029	38.0	50.1	50.4	52.1	30.4	59.1	32.9	24.7	32.8	41.1	34.4
LN81-1044	35.4	43.9	52.5	46.1	24.7	64.7	35.9	27.7	32.0	44.8	34.9
C.V. (%)	10.3		8.3	10.3	19.6	5.5	12.7	14.4	10.0	8.7	6.6
L.S.D. (5%)	6.3		8.6	N.S.	9.2	4.6	7.6	N.S.	5.6	6.6	3.8
Row Sp. (In.)	30	30	30	30	30	24	24	30	30	30	30
Rows/Plot	4	4	4	4	4	4	4	4	4	4	4
Reps	3	3	3	3	3	4	3	3	3	3	3

UNIFORM TEST II, 1985

YIELD RANK

Strain	Yield Rank	Ames IA	Marshall-town IA	Dekalb IL	Pontiac IL	Urbana IL	Bluff-ton IN	Lafayette IN	Britton MI	St. Charles MI	Lamber ton MN
Century 84	14	3	9	10	5	18	8	20	18	15	15
Elgin (II)	5	3	6	1	11	16	12	7	5	5	1
Elgin BC	2	5	3	4	5	7	6	9	2	6	2
Gnome 85	20	17	14	21	14	14	4	16	21	21	18
Zane (III)	3	20	1	3	5	1	10	15	2	1	7
A80-149020 (I)	11	16	10	20	17	9	21	11	5	7	8
A82-267015	18	19	17	19	9	11	9	12	16	4	12
A83-271010	4	9	13	2	3	2	16	1	5	13	3
A83-271027	8	13	12	5	1	8	15	2	17	20	11
A83-272020	7	12	18	13	12	5	19	3	11	3	19
A83-273009	1	2	5	5	2	4	11	4	1	2	6
C1627	11	15	18	8	9	12	3	13	12	19	20
HA82-168018	8	14	2	12	20	15	1	18	19	14	9
HC78-523	10	7	15	17	16	17	14	8	8	11	3
HC80-1756	15	1	7	14	21	19	4	14	13	8	3
HC80-1944	17	10	4	18	18	21	7	21	4	17	16
HC80-1946	19	11	21	16	19	20	17	19	14	10	14
HW8223	21	21	8	8	13	13	12	10	20	18	17
LN80-10508	6	6	16	7	4	3	2	6	10	16	13
LN81-1029	15	8	10	14	14	10	20	5	15	12	21
LN81-1044	11	18	20	11	8	6	18	17	9	9	9

UNIFORM TEST II, 1985

YIELD RANK

Strain	Waseca MN	Mead NE	Adelphia NJ	Hoyt-ville OH	Wooster OH	Harrow ONT	Ridge-town ONT	State College PA	Brookings SD	Center-ville SD	Arling-ton WI
Century 84	13	18	11	3	16	9	6	7	17	9	15
Elgin (II)	5	16	19	9	14	4	10	19	3	2	3
Elgin BC	11	6	9	2	5	7	1	7	2	1	5
Gnome 85	21	11	1	6	6	20	18	2	19	21	17
Zane (III)	3	13	12	5	3	2	12	4	10	13	13
A80-149020 (I)	2	10	21	21	19	11	9	9	4	6	1
A82-267015	16	7	20	15	9	18	16	20	9	17	18
A83-271010	4	3	14	8	18	8	5	18	6	4	8
A83-271027	9	13	16	7	20	9	7	10	14	16	11
A83-272020	12	20	3	16	2	6	15	6	13	3	19
A83-273009	1	5	8	10	21	1	2	12	1	11	9
C1627	17	1	2	4	1	5	17	17	20	19	20
HA82-168018	6	19	17	20	7	15	2	5	5	12	6
HC78-523	7	21	9	19	11	17	13	13	7	6	2
HC80-1756	18	15	18	14	15	14	19	11	7	5	4
HC80-1944	15	9	4	17	3	19	8	3	16	15	7
HC80-1946	19	12	5	10	12	21	20	1	18	8	9
HW8223	20	8	7	12	13	16	14	15	21	20	21
LN80-10508	10	4	15	17	10	12	21	13	12	10	12
LN81-1029	8	2	12	1	8	13	11	21	11	18	15
LN81-1044	14	17	6	13	17	3	4	16	14	14	13

UNIFORM TEST II, 1985

MATURITY (Date)

Strain	Mean 20 Tests	Ames IA	Marshall-town IA	Dekalb IL	Pontiac IL	Urbana IL	Bluff-ton IN	Lafayette IN	Britton MI	St. Charles MI	Lamber-ton MN
Century 84	+4.6	+4		+5	+3	+4	+1	+3	+4	+4	+10
Elgin (II)	9-25.4	9-12		9-19	9-16	9-9	9-20	9-8	9-28	10-8	9-29
Elgin BC	+1.3	+1		+1	+2	+2	0	+2	+1	0	+1
Gnome 85	+5.4	+6		+6	+6	+6	0	+5	+4	+5	+16
Zane (III)	+5.4	+6		+6	+6	+6	+3	+10	+5	+3	+13
A80-149020 (I)	-0.7	0		+1	0	-3	-3	-1	-3	0	3
A82-267015	+1.5	-2		+2	+5	0	-5	+1	+2	+2	+7
A83-271010	+2.9	+2		+3	+5	+4	+1	+4	+2	+2	+9
A83-271027	+5.3	+4		+6	+7	+6	+2	+6	+4	+3	+13
A83-272020	+6.5	+5		+6	+7	+7	+3	+8	+6	+3	+16
A83-273009	+1.2	+1		0	+2	-1	-1	+2	+2	+1	+4
C1627	+5.5	+4		+6	+4	+4	+3	+3	+7	+4	+16
HA82-168018	+1.9	-1		+1	+2	+6	-2	+2	+2	0	+3
HC78-523	+3.1	+4		+4	+4	+1	-2	+5	+2	+3	+7
HC80-1756	+1.7	0		+3	+4	-3	-3	-1	0	+2	+5
HC80-1944	+5.5	+5		+4	+5	+1	+2	+2	+5	+5	+16
HC80-1946	+3.3	+2		+2	+4	-2	-3	+1	+2	+4	+11
HW8223	+5.9	+5		+7	+5	+5	+1	+10	+7	+4	+16
LN80-10508	+6.6	+6		+7	+5	+6	+5	+10	+6	+5	+16
LN81-1029	+5.6	+4		+5	+5	+4	+1	+5	+3	+3	+16
LN81-1044	+5.4	+2		+4	+4	+6	+3	+9	+3	+2	+10
Date Planted	5-17	5-3	-	5-3	5-4	5-7	5-23	5-7	5-8	5-23	5-9
Days to Mature	131	132	-	139	135	125	120	126	143	138	143

UNIFORM TEST II, 1985

MATURITY (Date)

Strain	Waseca MN	Mead NE	Adelphia NJ	Hoyt-ville OH	Wooster OH	Harrow ONT	Ridge-town ONT	State College PA	Brookings SD	Center-ville SD	Arling-ton WI
Century 84	+2	+1	+14	+1	+6	+7	+3	+5	+3	+5	+6
Elgin (II)	9-30	9-15	9-29	9-18	9-22	9-24	10-15	10-3	10-6	10-6	10-5
Elgin BC	0	+2	+1	+2	+2	+1	+1	+4	-1	0	+3
Gnome 85	+7	+5	+2	+7	+3	+13	-1	+6	+4	+5	+3
Zane (III)	+8	+4	0	+2	+4	+10	+2	+5	+2	+3	+9
A80-149020 (I)	+3	-3	-6	-2	-2	+3	-2	-2	0	-1	+5
A82-267015	+1	-2	+1	0	+1	+11	+2	0	0	0	+1
A83-271010	+5	+1	0	+1	-1	+5	+2	+3	+2	+2	+6
A83-271027	+8	+5	0	+2	+7	+8	+3	+6	+14	+2	+9
A83-272020	+10	+8	+5	+3	+4	+14	+3	+5	+3	+3	+10
A83-273009	0	1	-1	+1	+2	+3	0	0	0	+2	+6
C1627	+1	+4	+5	+4	+8	+13	+2	+4	+6	+5	+7
HA82-168018	+1	0	+4	0	+2	+4	+2	+1	+4	+2	+4
HC78-523	+2	+1	+3	+2	+4	+14	-4	+5	+3	+2	+2
HC80-1756	0	-2	+15	+1	+1	+7	-1	+2	+3	+1	0
HC80-1944	+2	+2	18	+2	+6	+14	+1	+7	+4	+3	+6
HC80-1946	+6	+2	+14	0	+1	+9	0	+5	+4	+2	+1
HW8223	+7	+3	+1	+3	+4	+12	+3	+4	+6	+5	+10
LN80-10508	+10	+4	+5	+3	+7	+9	+3	+5	+5	+5	+10
LN81-1029	+10	+4	+14	+2	+3	+9	+3	+5	+5	+3	+7
LN81-1044	+6	+5	+19	+2	+6	+7	+4	+3	+5	+2	+6
Date Planted	5-13	5-23	5-30	5-9	5-13	5-24	6-7	6-5	5-21	5-24	5-21
Days to Mature	140	115	122	132	136	123	130	120	138	135	137

UNIFORM TEST II, 1985

LODGING (Score)

Strain	Mean 21 Tests	Ames IA	Marshall-town IA	Dekalb IL	Pontiac IL	Urbana IL	Bluff-ton IN	Lafayette IN	Britton MI	St. Charles MI	Lamber-ton MN
Century 84	1.2	1.3	1.3	2.0	2.0	1.0	1.0	1.0	1.0	2.0	1.0
Elgin (II)	1.7	1.4	1.4	2.5	2.3	1.3	1.0	1.7	2.5	1.3	2.7
Elgin BC	1.8	1.5	1.4	2.5	2.3	1.0	1.0	1.5	2.8	2.0	3.3
Gnome 85	1.5	1.3	1.5	1.7	2.0	1.0	1.0	1.0	1.2	1.3	1.0
Zane (III)	1.7	1.3	1.4	2.5	2.5	1.0	1.0	1.3	1.5	2.0	2.3
A80-149020 (I)	1.4	1.2	1.2	2.0	2.3	1.0	1.0	1.2	1.8	1.0	1.7
A82-267015	2.2	1.3	1.3	2.7	3.5	2.3	1.0	2.3	3.3	2.5	3.3
A83-271010	1.6	1.3	1.2	2.0	2.3	1.0	1.0	1.0	2.0	1.5	2.3
A83-271027	1.9	1.3	1.3	2.8	2.5	2.0	1.0	2.3	2.3	2.0	2.0
A83-272020	2.3	1.3	1.4	2.3	4.0	2.3	1.0	2.3	2.5	3.0	3.0
A83-273009	1.7	1.4	1.3	2.0	2.3	1.0	1.0	1.0	2.8	1.8	2.3
C1627	2.0	1.6	1.3	2.7	3.3	2.0	1.0	2.0	2.5	2.3	2.0
HA82-168018	1.8	1.3	1.4	2.0	3.3	1.3	1.0	1.5	2.0	2.0	2.3
HC78-523	1.8	1.4	1.6	2.5	2.0	1.0	1.0	1.2	1.5	2.8	1.0
HC80-1756	1.5	1.3	1.6	1.8	2.0	1.0	1.0	1.0	1.0	1.5	1.0
HC80-1944	1.4	1.3	1.5	2.0	2.0	1.0	1.0	1.0	1.0	1.3	1.0
HC80-1946	1.7	1.3	1.6	2.0	2.0	1.0	1.0	1.0	1.3	1.8	1.0
HW8223	1.9	1.3	1.3	2.2	2.8	2.3	1.0	1.8	2.5	2.0	3.0
LN80-10508	1.9	1.4	1.3	2.2	2.8	1.3	1.0	1.3	2.0	2.3	2.3
LN81-1029	1.6	1.3	1.2	2.0	2.5	1.0	1.0	1.0	1.5	1.8	2.0
LN81-1044	1.5	1.2	1.3	2.0	2.0	1.0	1.0	1.0	2.0	1.0	2.3

UNIFORM TEST II, 1985

LODGING (Score)

Strain	Waseca MN	Mead NE	Adelphia NJ	Hoyt-ville OH	Wooster OH	Harrow ONT	Ridge-town ONT	State College PA	Brookings SD	Center-ville SD	Arling-ton WI
Century 84	1.0	1.0	1.0	1.3	1.2	1.1	2.0	1.0	1.7	1.3	2.8
Elgin (II)	1.3	1.0	2.0	1.4	1.2	1.5	2.7	1.0	1.0	2.0	3.5
Elgin BC	1.3	1.0	2.3	1.4	1.1	1.5	2.7	1.0	1.0	1.7	3.5
Gnome 85	2.0	1.0	1.7	1.2	1.3	2.5	1.3	1.0	2.0	1.0	2.8
Zane (III)	1.3	1.0	3.0	1.4	1.1	1.6	1.7	1.0	2.0	1.3	3.2
A80-149020 (I)	1.0	1.0	1.7	1.3	1.2	1.2	1.7	1.0	1.7	1.0	2.7
A82-267015	1.3	1.2	3.7	1.3	1.1	2.6	3.3	1.0	2.0	2.0	3.2
A83-271010	1.3	1.0	2.3	1.2	1.2	1.4	2.3	1.0	2.0	1.3	3.2
A83-271027	2.3	1.5	2.7	1.4	1.3	2.0	2.3	1.0	1.3	1.3	3.2
A83-272020	2.7	2.0	2.7	1.5	1.4	3.0	2.7	1.0	3.0	2.0	3.5
A83-273009	1.3	1.0	2.7	1.4	1.2	1.0	2.3	1.0	2.3	1.7	3.2
C1627	1.7	1.2	3.3	1.5	1.2	1.9	2.7	1.0	2.0	2.0	3.2
HA82-168018	1.7	1.0	2.3	1.3	1.2	1.9	1.7	1.0	2.0	1.7	3.0
HC78-523	2.0	1.2	2.7	1.2	1.2	3.4	1.7	1.0	2.7	1.7	3.2
HC80-1756	1.3	1.0	3.0	1.3	1.2	2.0	1.7	1.0	2.0	1.0	2.8
HC80-1944	2.0	1.0	2.3	1.2	1.2	2.1	1.0	1.0	1.3	1.3	2.3
HC80-1946	2.3	1.0	3.0	1.4	1.4	2.4	1.7	1.0	2.3	1.7	2.7
HW8223	1.3	1.3	2.7	1.4	1.2	2.4	2.3	1.0	2.0	1.3	3.3
LN80-10508	2.3	1.0	3.0	1.3	1.2	1.5	2.7	1.0	2.0	2.0	3.2
LN81-1029	1.3	1.0	3.0	1.3	1.2	1.8	2.0	1.0	1.3	1.7	3.2
LN81-1044	1.7	1.0	2.0	1.2	1.2	1.1	2.0	1.0	1.0	1.0	2.7

UNIFORM TEST II, 1985

PLANT HEIGHT (Inches)

Strain	21 Mean Tests	Ames IA	Marshall-town IA	Dekalb IL	Pontiac IL	Urbana IL	Bluff-ton IN	Lafayette IN	Britton MI	St. Charles MI	Lamber-ton MN
Century 84	35	38	32	41	43	39	27	34	36	37	41
Elgin (II)	31	34	29	35	40	35	23	31	32	32	34
Elgin BC	31	32	30	37	39	35	24	33	31	32	36
Gnome 85	24	24	23	24	22	24	21	24	21	24	34
Zane (III)	36	39	36	41	40	41	26	35	36	39	42
A80-149020 (I)	32	35	30	38	40	38	20	34	35	33	41
A82-267015	36	37	34	42	43	39	26	36	38	41	48
A83-271010	32	33	32	39	37	37	24	35	32	32	40
A83-271027	34	36	34	40	44	39	25	37	35	34	40
A83-272020	39	42	38	46	44	45	26	40	40	40	46
A83-273009	32	36	32	37	40	35	27	33	31	32	40
C1627	37	40	36	44	42	41	28	38	38	40	44
HA82-168018	37	38	36	41	42	46	34	37	35	39	42
HC78-523	25	25	24	24	22	24	22	24	25	26	35
HC80-1756	26	26	25	27	22	26	24	26	27	28	35
HC80-1944	26	25	26	26	24	28	24	27	27	28	33
HC80-1946	28	26	28	28	28	26	22	26	28	29	35
HW8223	37	40	36	41	45	43	30	38	38	40	45
LN80-10508	36	40	32	45	43	42	27	37	38	39	45
LN81-1029	36	40	36	44	42	43	23	36	39	38	47
LN81-1044	34	34	32	40	41	41	26	32	35	37	40

UNIFORM TEST II, 1985

PLANT HEIGHT (Inches)

Strain	Waseca MN	Mead NE	Adelphia NJ	Hoyt-ville OH	Wooster OH	Harrow ONT	Ridge-town ONT	State College PA	Brookings SD	Center-ville SD	Arling-ton WI
Century 84	35	33	32	28	24	37	30	23	41	39	35
Elgin (II)	33	33	25	24	22	33	26	20	34	32	34
Elgin BC	30	34	27	25	23	32	28	21	32	31	32
Gnome 85	28	26	22	22	19	28	19	22	30	25	24
Zane (III)	36	37	36	31	24	40	28	25	43	37	37
A80-149020 (I)	32	33	29	25	20	35	27	23	35	34	35
A82-267015	36	37	33	28	26	40	34	23	42	36	37
A83-271010	33	34	27	24	22	36	26	19	39	34	33
A83-271027	37	37	28	27	22	37	29	22	42	34	34
A83-272020	41	41	36	30	28	44	33	25	48	41	39
A83-273009	32	33	28	28	21	33	28	22	38	34	32
C1627	37	39	35	30	26	40	31	24	39	39	40
HA82-168018	37	38	33	30	25	40	31	25	42	38	38
HC78-523	26	26	23	19	18	31	18	22	39	29	26
HC80-1756	30	26	22	22	21	31	20	23	35	27	26
HC80-1944	30	27	23	21	22	31	21	24	31	26	26
HC80-1946	29	28	24	26	24	32	23	25	35	28	28
HW8223	37	43	31	30	25	40	32	25	42	41	39
LN80-10508	38	39	35	29	25	40	30	23	40	38	35
LN81-1029	39	40	29	26	24	41	33	24	43	40	37
LN81-1044	37	37	31	28	24	37	29	23	40	38	35

UNIFORM TEST II, 1985

SEED QUALITY (Score)

Strain	Mean 18 Tests	Ames IA	Marshall-town IA	Dekalb IL	Pontiac IL	Urbana IL	Bluff-ton IN	Lafayette IN	Britton MI	St. Charles MI	Lamber-ton MN
Century 84	2.1	2.3		1.5	1.3	1.7	1.0	2.5			2.3
Elgin (II)	1.9	1.6		1.6	1.5	1.9	1.0	2.0			1.7
Elgin BC	2.0	1.8		1.4	1.7	1.6	1.5	2.0			2.0
Gnome 85	1.7	1.6		1.1	1.3	1.3	1.0	1.5			1.3
Zane (III)	1.9	2.5		1.1	1.3	1.8	1.0	1.0			1.7
A80-149020 (I)	2.3	2.7		1.8	2.3	2.0	2.0	3.0			2.7
A82-267015	2.1	1.9		1.6	1.5	1.9	1.0	2.0			2.3
A83-271010	2.2	2.3		1.6	1.5	2.4	1.5	2.0			2.7
A83-271027	2.0	2.5		1.1	1.3	1.5	1.0	1.5			1.3
A83-272020	2.1	2.0		1.2	1.5	1.9	1.0	2.5			1.3
A83-273009	1.9	2.3		1.2	1.7	1.5	1.0	2.0			1.7
C1627	2.1	2.8		1.2	1.7	1.9	1.0	3.0			1.7
HA82-168018	2.0	2.3		1.2	1.5	1.8	1.0	2.5			1.7
HC78-523	2.0	1.7		1.2	1.3	1.4	1.0	1.5			2.0
HC80-1756	1.9	1.9		1.2	1.5	1.4	1.0	1.5			1.3
HC80-1944	1.8	1.8		1.4	1.1	1.6	1.0	1.5			1.3
HC80-1946	1.9	1.5		1.4	1.5	1.4	1.0	2.0			1.3
HW8223	2.1	2.6		1.1	1.3	1.8	1.0	2.0			1.7
LN80-10508	2.2	2.4		1.5	1.5	1.8	1.0	2.0			2.0
LN81-1029	2.1	2.3		1.4	1.5	1.9	1.0	2.5			1.7
LN81-1044	1.9	2.1		1.4	1.5	1.5	1.0	2.0			2.0

UNIFORM TEST II, 1985

SEED QUALITY (Score)

Strain	Waseca MN	Mead NE	Adelphia NJ	Hoyt-ville OH	Wooster OH	Harrow ONT	Ridge-town ONT	State College PA	Brookings SD	Center-ville SD	Arling-ton WI
Century 84	1.7	1.3	2.3	1.7	3.0	1.6	3.0	2.0	3.0	2.0	3.0
Elgin (II)	2.0	1.5	2.0	1.2	2.0	2.0	2.0	2.0	3.0	2.0	3.0
Elgin BC	1.7	1.5	1.7	1.3	2.3	2.1	3.0	2.0	3.0	2.0	2.7
Gnome 85	2.0	1.0	1.3	1.2	2.0	1.9	2.0	2.0	3.0	3.0	2.7
Zane (III)	2.0	2.0	1.7	1.5	2.3	1.8	2.0	2.0	3.0	3.0	3.0
A80-149020 (I)	2.0	1.8	3.0	1.4	3.0	2.8	2.0	1.5	2.0	2.0	2.7
A82-267015	2.0	1.7	2.7	1.4	3.0	2.4	2.0	1.5	3.0	3.0	3.3
A83-271010	2.0	1.3	3.0	1.3	3.0	2.1	2.0	1.5	3.0	2.0	4.7
A83-271027	2.0	1.2	2.3	1.2	2.0	1.9	4.0	2.0	4.0	3.0	3.0
A83-272020	2.0	2.0	3.3	1.1	2.0	2.0	2.0	1.5	3.0	3.0	4.0
A83-273009	1.7	1.3	2.0	1.2	2.0	1.8	2.0	2.0	2.0	3.0	4.0
C1627	2.0	1.3	2.3	1.2	2.7	2.5	3.0	2.0	3.0	2.0	2.3
HA82-168018	2.0	2.0	2.0	1.1	2.0	2.0	3.0	2.0	3.0	2.0	3.0
HC78-523	1.7	1.0	2.0	1.4	2.0	2.4	3.0	2.0	4.0	3.0	3.3
HC80-1756	2.0	1.0	2.0	1.3	2.3	1.4	3.0	2.0	3.0	3.0	2.7
HC80-1944	1.7	1.2	2.3	1.3	2.0	2.0	3.0	2.0	3.0	3.0	2.0
HC80-1946	2.0	1.2	2.3	1.3	1.7	2.3	3.0	2.0	3.0	3.0	2.5
HW8223	2.0	1.5	3.3	1.1	2.7	1.9	2.0	2.0	4.0	3.0	3.0
LN80-10508	2.0	1.2	2.3	1.2	2.0	3.0	4.0	2.0	4.0	3.0	2.7
LN81-1029	1.7	1.3	2.7	1.3	2.7	1.1	3.0	2.0	3.0	3.0	3.0
LN81-1044	1.3	1.5	2.3	1.2	2.3	1.0	3.0	1.5	3.0	3.0	3.3

UNIFORM TEST II, 1985

SEED SIZE (g/100)

Strain	Mean 20 Tests	Ames IA	Marshall-town IA	Dekalb IL	Pontiac IL	Urbana IL	Bluff-ton IN	Lafayette IN	Britton MI	St. Charles MI	Lamber ton MN
Century 84	19.3	19.1		21.8	20.1	19.7	21.4	19.6	21.2	19.7	18.5
Elgin (II)	19.3	17.0		22.8	21.0	19.2	19.8	18.5	20.2	19.9	20.2
Elgin BC	19.0	16.0		22.3	20.6	20.0	20.1	17.1	19.9	19.4	19.3
Gnome 85	17.1	15.5		19.4	19.4	18.0	17.6	18.6	18.8	16.8	14.9
Zane (III)	20.1	18.3		23.8	23.2	22.7	20.7	18.3	22.3	20.6	20.1
A80-149020 (I)	18.4	16.6		22.2	20.4	18.8	19.5	19.3	19.4	17.6	18.1
A82-267015	17.2	15.4		19.4	20.1	19.5	16.3	18.4	18.2	17.3	16.6
A83-271010	18.0	15.7		21.0	20.3	20.0	18.3	19.8	19.8	17.3	17.4
A83-271027	15.8	14.9		18.2	18.7	16.5	14.6	17.0	17.4	16.3	16.4
A83-272020	20.5	20.3		25.4	23.2	22.5	19.9	22.8	22.0	21.0	20.0
A83-273009	17.4	15.3		19.8	20.5	18.7	16.6	18.4	18.6	17.3	17.2
C1627	18.5	15.5		21.8	20.5	20.2	19.3	19.2	21.8	18.8	15.9
HA82-168018	20.4	19.3		23.3	22.7	21.9	21.0	20.9	21.9	19.5	20.0
HC78-523	14.7	12.9		14.9	16.0	14.6	15.3	15.3	15.7	14.0	12.1
HC80-1756	16.9	14.9		18.6	18.8	17.3	17.7	17.7	19.6	17.6	16.1
HC80-1944	18.7	17.8		20.3	21.6	18.8	19.6	20.4	21.2	19.1	19.4
HC80-1946	17.9	15.9		20.4	20.6	17.4	18.1	19.7	21.0	17.7	16.4
HW8223	18.7	16.6		21.8	21.1	19.7	20.1	20.0	21.3	18.0	18.3
LN80-10508	18.8	18.1		21.7	20.4	19.1	19.7	19.4	20.7	19.5	17.0
LN81-1029	18.3	17.0		20.5	20.0	19.0	19.7	19.6	20.0	17.4	17.7
LN81-1044	18.0	16.7		19.6	20.9	18.8	19.4	18.4	20.2	17.8	18.6

UNIFORM TEST II, 1985

SEED SIZE (g/100)

Strain	Waseca MN	Mead NE	Adelphia NJ	Hoyt-ville OH	Wooster OH	Harrow ONT	Ridge-town ONT	State College PA	Brookings SD	Center-ville SD	Arling-ton WI
Century 84	19.0	18.8	18.0	19.7	19.7	23.6	15.5	18.6	16.0	20.7	16.1
Elgin (II)	19.4	16.3	18.0	17.9	18.5	23.0	16.8	17.8	19.3	21.9	17.6
Elgin BC	19.7	16.7	18.0	18.4	18.8	22.3	17.4	17.0	19.2	21.1	17.2
Gnome 85	14.5	16.7	18.0	17.4	17.1	19.8	15.7	16.5	15.2	17.1	14.2
Zane (III)	19.2	19.8	19.5	18.8	21.3	24.9	16.0	18.1	17.6	19.8	17.4
A80-149020 (I)	18.5	18.7	17.5	16.4	18.4	22.2	14.7	17.6	17.1	19.0	15.6
A82-267015	16.2	17.5	17.5	16.2	17.8	21.9	14.1	15.6	15.2	17.9	13.8
A83-271010	16.9	17.6	17.0	16.6	17.5	23.2	14.6	15.5	16.9	18.8	15.0
A83-271027	14.4	14.6	17.0	15.0	15.6	18.3	12.5	15.1	14.9	15.5	13.2
A83-272020	20.3	19.6	19.0	20.4	19.3	26.6	16.6	17.4	16.3	21.6	15.6
A83-273009	18.1	17.2	17.0	15.8	15.7	21.1	14.5	14.9	17.4	19.0	14.5
C1627	17.5	19.1	19.5	17.9	18.3	23.9	15.6	16.7	15.0	18.7	14.8
HA82-168018	20.0	18.7	19.0	19.1	20.5	25.4	16.9	18.7	18.9	21.9	17.6
HC78-523	19.8	14.0	15.5	12.6	13.6	17.4	14.2	13.7	13.7	15.6	12.1
HC80-1756	13.4	15.9	17.0	16.0	15.9	21.5	15.5	15.1	16.4	18.0	15.4
HC80-1944	15.9	19.8	19.0	17.6	17.8	21.9	16.2	16.1	15.8	18.7	16.9
HC80-1946	17.4	18.9	18.5	17.4	16.1	21.2	16.2	14.8	16.3	18.8	15.2
HW8223	15.8	19.0	18.5	18.2	19.3	23.8	15.5	18.0	15.0	19.5	14.5
LN80-10508	17.1	17.5	19.0	18.9	18.6	23.7	15.5	17.2	16.0	20.5	16.2
LN81-1029	17.2	18.2	18.5	18.3	19.7	21.5	14.7	17.6	15.8	18.3	15.3
LN81-1044	16.4	17.6	17.0	18.8	18.6	21.8	15.2	17.4	14.8	17.5	14.7

UNIFORM TEST II, 1985

Strain	PROTEIN (%) Mean 3 Tests	Ames IA	Urbana IL	Lafayette IN	Strain	OIL (%) Mean 3 Tests	Ames IA	Urbana IL	Lafayette IN
Century 84	43.0	41.9	43.3	43.8	Century 84	20.4	20.9	20.2	20.0
Elgin (II)	37.4	36.3	38.0	38.0	Elgin (II)	23.1	24.0	22.9	22.5
Elgin BC	37.7	36.6	38.0	38.6	Elgin BC	22.7	23.2	23.1	21.7
Gnome 85	41.6	41.0	41.8	41.9	Gnome 85	21.2	21.3	21.1	21.2
Zane (III)	40.2	39.5	39.9	41.2	Zane (III)	22.6	22.4	22.7	22.7
A80-149020 (I)	38.9	37.9	38.5	40.3	A80-149020 (I)	21.5	21.6	21.6	21.3
A82-267015	40.0	40.0	40.6	39.4	A82-267015	21.7	21.4	21.3	22.4
A83-271010	39.9	38.3	41.3	40.1	A83-271010	21.5	21.8	21.4	21.3
A83-271027	42.1	40.6	42.6	43.2	A83-271027	21.6	21.2	22.2	21.4
A83-272020	36.4	35.3	36.9	37.0	A83-272020	23.5	23.5	23.4	23.5
A83-273009	39.1	36.8	38.8	41.7	A83-273009	22.0	22.8	22.2	20.9
C1627	41.6	40.2	41.7	42.8	C1627	21.2	21.3	21.1	21.1
HA82-168018	40.5	39.8	40.1	41.5	HA82-168018	22.0	22.5	21.9	21.6
HC78-523	41.6	40.4	41.5	42.9	HC78-523	21.6	21.9	21.8	21.1
HC80-1756	41.5	40.8	41.7	42.0	HC80-1756	21.5	21.7	21.3	21.5
HC80-1944	43.1	42.9	43.3	43.0	HC80-1944	20.4	20.1	20.3	20.9
HC80-1946	41.9	40.5	41.6	43.6	HC80-1946	21.6	22.0	21.5	21.4
HW8223	40.9	39.9	40.6	42.3	HW8223	21.7	21.8	22.3	21.1
LN80-10508	40.9	38.7	41.2	42.9	LN80-10508	20.9	22.3	20.4	20.1
LN81-1029	40.9	39.6	40.4	42.8	LN81-1029	21.4	22.1	21.6	20.4
LN81-1044	40.7	39.7	40.3	42.1	LN81-1044	21.7	22.6	21.9	20.5

PRELIMINARY TEST IIA, 1985

Strain	Parentage	Generation Composited
Century 84	Century^5 x Williams 82	BC_4F_3
Elgin (II)	AP6(2YT) (F_4)C1	F_4
Zane (III)	Cumberland x Pella	F_5
A80-149020 (I)	L69U40-16-4 x A76-304020	F_4
A84-281015	HW79015 x A80-247007	F_4
A84-282009	HW79015 x A79-334010	F_4
A84-282011	A80-247007 x Migro HP20.20	F_4
A84-282019	Harper x Asgrow A3127	F_4
A84-282036	A80-247007 x Harper	F_4
A84-238002	A80-247007 x Harper	F_4
A84-283009	HW79015 x A78-123018	F_4
A84-283016	Asgrow A3127 x A79-334010	F_4
A84-283034	Asgrow 1937 x HW79015	F_4
A84-284001	Asgrow 1937 x A79-334010	F_4
A84-284005	A80-247007 x Asgrow A3127	F_4
A84-284007	HW79015 x A78-123018	F_4
A84-284008	HW79015 x A78-123018	F_4
A84-284023	Harper x Asgrow A3127	F_4
A84-284033	HW79015 x A80-247007	F_4
LN82-296	Sparks x Century	F_5
LN82-4055	Williams 82 x L73-4673	F_5
LN82-4858	Williams 82 x L73-4673	F_5
LN82-8596	K1056 x L73-4673	F_5
LN82-9535	K74-113-76-486 x Century	F_5
LN82-9950	K74-113-76-486 x L73-4673	F_5
LN82-10484	Sparks x Dawson	F_5
M82-1058	Hardin x Gnome	F_4
U81-63087	U-10917 x Elf	F_5
U81-64002	Hodgson x L70T-543G	F_5
U81-65008	Nebsoy x L70T-543G	F_5
U81-65009	Nebsoy x L70T-543G	F_5
U81-65026	Nebsoy x L70T-543G	F_5
U82-63017	Calland x Bonus	F_6
U82-65126	L71-2855 x Nebsoy	F_5
U82-65142	L71-2855 x Nebsoy	F_5
U82-72035	L71-2855 x Nebsoy	F_5

PRELIMINARY TEST IIA, 1985

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Ames	Shattering Score Manhattan	BSR Urbana Score	DM Urbana Score	PM Urbana Score
Century 84	PTBSYBl	I 2.7	1.0	3.0	2.0	1
Elgin (II)	PTBSYBl	I 4.0	1.0	2.0	1.0	1
Zane (III)	PGBDYBf	I 3.0	1.0	2.5	2.0	1
A80-149020(I)	PGTDYIb	I 2.3	1.0	1.0	1.0	1
A84-281015	PGBDYBf	I 3.8	1.0	2.0	2.5	1
A84-282009	PGTDYIb	I 4.3	1.0	1.5	2.5	1
A84-282011	PGBDYY	I 3.8	1.0	2.5	2.5	1
A84-282019	PTBDYBl	I 3.5	1.0	2.5	2.5	1
A84-282036	PTBDYBr	I 2.8	1.0	3.0	1.0	1
A84-283002	PTBDYBl	I 4.0	1.0	1.5	1.0	1
A84-283009	PGBDYBf	I 4.2	1.0	2.5	2.5	1
A84-283016	PTBDYBl	I 3.8	1.0	1.0	2.5	3
A84-283034	PGBDYY	I 4.2	1.0	1.5	2.0	1
A84-284001	PTBDYBr	I 4.5	1.0	1.5	2.5	3
A84-284005	PTTDYBr	I 2.5	1.0	1.0	2.5	1
A84-284007	PGBDYIb	I 4.5	1.0	2.0	2.5	1
A84-284008	PGBDYIb	I 4.5	1.0	1.0	2.0	1
A84-284023	PTTSYBl	I 4.0	1.0	1.5	1.0	1
A84-284033	WGBDYBf	I 3.3	1.0	2.0	2.5	1
LN82-296	PTTDYBl	I 2.8	1.0	2.0	2.5	1
LN82-4055	PTTDYBl	I 3.5	1.0	2.0	2.5	1
LN82-4858	PTTSYBl+Gr	I 4.3	1.0	2.5	2.5	1
LN82-8596	WGTSYY	I 4.3	1.0	2.5	2.0	1
LN82-9535	PTBDYBl	I 3.3	1.0	3.0	2.5	1
LN82-9950	PGTDYY	I 4.3	1.0	1.5	1.5	1
LN82-10484	PTTDYBf+Ib	I 2.3	1.0	2.0	1.5	3
M82-1058	PGT+BrDYBf+Ib	I 4.5	1.0	3.0	2.0	3
U81-63087	PTTSYBr	I 3.8	1.0	1.0	2.0	3
U81-64002	PGSYBr	I 3.5	1.0	2.0	1.5	3
U81-65008	WGBSYBr	I 2.8	2.0	1.5	2.0	1
U81-65009	WGBSYBr	I 4.0	2.0	2.0	2.0	1
U81-65026	WGBSYBr	I 4.0	2.0	2.0	1.5	1
U82-63017	WTBSYBl	I 3.3	1.0	2.5	2.0	1
U82-65126	WTBSYBl	I 3.0	2.0	1.0	2.5	1
U82-65142	WTBSYBl	I 4.0	2.0	1.5	2.0	1
U82-72035	WTBSYBl	I 2.5	1.0	2.5	1.5	1

PRELIMINARY TEST IIA, 1985

DISEASE DATA

BSR		PR			PS	PSB	SMV	Germ
Ames		Ames	Lafayette	Vickery	Lafayette			
Plant %	Stem %	Race4 - Reaction -	Race1	Tolerance Score	a %	n %	a Score	%
90	48.9	R	R	2.9	40	16	4E	80
90	62.5	S	S	3.5	53	3	5E	83
50	14.5	S	H	2.9	54	10	4E	86
70	28.9	S	R	3.1	67	12	2E	76
80	35.3	S	S	3.6	80	20	2M	96
40	15.9	S	S	3.8	80	18	5E	72
90	52.9	S	S	3.5	89	4	3E	92
100	47.6	S	S	3.5	22	8	5E	84
80	45.4	S	S	3.0	30	14	5S	84
100	61.1	S	R	3.0	15	4	5E	88
100	50.7	S	S	3.8	82	14	3E	86
90	31.7	S	S	3.3	43	6	5E	86
90	51.3	S	S	3.3	82	8	2S	88
70	33.3	S	S	3.1	32	14	5E	60
90	45.8	S	S	3.1	23	6	3M	88
100	61.3	S	S	3.3	72	14	3E	82
80	53.6	S	S	3.5	80	4	3M	90
50	24.8	S	S	3.5	33	6	1	94
100	50.4	S	-	4.5	72	20	4E	72
100	50.2	S	R	2.9	94	12	4E	80
100	65.3	R	R	3.5	50	36	4M	82
100	64.3	R	R	3.0	77	14	4M	82
100	49.0	H	S	3.4	60	12	2M	66
100	63.6	S	R	3.1	52	2	4M	76
100	62.9	R	R	3.1	80	8	2E	80
100	57.3	S	R	3.0	73	10	5E	86
100	63.7	S	H	3.8	69	8	3M	86
90	51.2	S	S	3.9	64	22	3E	66
100	49.6	S	H	3.1	81	24	2M	64
90	48.7	S	R	2.9	72	4	3E	82
100	66.9	S	R	3.6	75	4	3E	94
100	52.9	S	R	3.0	76	8	4E	80
100	68.6	H	R	3.1	48	36	4E	66
90	49.4	S	R	3.1	72	14	4E	86
10	2.6	S	R	3.1	75	10	3M	78
60	35.0	S	R	2.8	68	20	4E	74

Preliminary Test IIA

Several entries in this test matured later than Zane, the Group III tie variety. These late-maturing entries should be moved to UT III for further evaluations. Several strains in the test had iron chlorosis scores as high as that of Elgin. None of the strains had much higher seed yields than the check varieties.

Preliminary Test IIB

Many of the strains in this test matured later than the Group III check variety Zane. Continued testing of the late-maturing strains should be done in UT III. The highest yielding Group II strains in this test did not show any appreciable yield advantage over the check varieties.

PRELIMINARY TEST IIA, 1985

Regional Summary

Strain No. of Tests	Yield 10 bu/a	Rank 10 No.	Maturity 9 Date	Lodging 10 Score	Plant Height 10 In	Seed Quality 8 Score	Seed Size 9 g/100	Composition Protein 3 %	Oil 3 %
Century 84	49.6	10	+3.4	1.4	36	1.9	19.2	42.6	20.2
Elgin (II)	51.8	3	9-21.4*	1.9	32	2.0	18.8	38.1	22.1
Zane (III)	51.4	6	+4.7	1.7	37	2.2	20.6	38.9	22.8
A80-149020 (I)	48.1	18	-1.6	1.5	34	2.3	18.3	38.5	21.8
A84-281015	51.2	7	+2.7	2.0	40	2.2	16.8	38.7	21.8
A84-282009	49.6	10	+4.7	2.2	37	2.6	17.0	40.5	21.8
A84-282011	51.2	7	+0.7	2.1	34	2.0	17.4	38.5	22.4
A84-282019	52.2	1	+6.7	1.8	35	2.1	18.6	40.3	22.2
A84-282036	48.5	15	+5.3	2.4	38	2.2	17.4	38.8	22.1
A84-283002	46.0	31	+4.8	2.4	36	2.5	16.4	41.0	21.2
A84-283009	49.4	13	+5.7	1.4	37	2.3	17.1	40.1	20.8
A84-283016	50.4	9	+5.1	1.6	32	2.1	17.8	42.0	20.5
A84-283034	48.5	15	+5.3	1.9	36	2.1	18.3	40.7	20.8
A84-284001	47.5	20	+7.1	2.3	38	2.5	16.5	42.7	20.0
A84-284005	51.6	4	+8.2	2.0	38	2.1	16.7	40.3	22.2
A84-284007	49.0	14	+6.8	2.5	40	2.3	14.8	39.0	21.4
A84-284008	49.6	10	+6.9	1.8	36	2.4	16.4	41.0	20.3
A84-284023	51.5	5	+9.2	1.7	34	2.0	16.9	42.7	20.6
A84-284033	51.9	2	+6.0	2.0	42	2.1	20.2	38.4	22.0
LN82-296	48.4	17	+4.6	2.1	39	2.3	20.4	41.4	21.5
LN82-4055	42.8	36	-1.1	2.5	34	1.9	18.9	41.9	21.1
LN82-4858	46.6	25	+4.7	1.8	37	2.0	18.1	42.1	21.2
LN82-8596	46.8	24	+5.3	1.4	37	1.7	17.2	42.2	19.8
LN82-9535	44.9	32	+4.2	2.3	36	2.1	19.7	41.0	20.3
LN82-9950	46.6	25	+2.4	2.0	34	2.2	19.7	42.5	19.8
LN82-10484	46.6	25	-0.2	2.6	37	2.1	18.6	38.4	21.9
M82-1058	43.8	35	+0.3	2.0	34	2.2	17.6	39.3	22.7
U81-63087	47.4	21	+3.0	1.9	35	2.0	18.4	41.4	21.9
U81-64002	47.7	19	+1.3	2.1	39	2.4	20.7	38.3	22.8
U81-65008	47.3	22	+6.3	1.7	41	2.3	18.7	41.4	20.4
U81-65009	46.4	28	+2.9	1.4	35	2.2	19.1	40.9	21.0
U81-65026	47.0	23	+6.2	2.0	37	2.3	19.0	40.4	21.7
U82-63017	44.4	34	+3.9	2.0	38	2.1	21.5	39.1	23.0
U82-65126	46.4	28	+6.4	1.6	38	2.3	19.1	40.4	21.0
U82-65142	44.6	33	+4.2	1.7	38	2.2	20.5	41.3	20.7
U82-72035	46.2	30	+8.3	2.1	39	2.0	19.2	41.4	20.9

* 129 Days After Planting

PRELIMINARY TEST IIA, 1985

YIELD (bu/a)

Strain	Mean 10 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Century 84	49.6	46.3	37.2	66.1	45.6
Elgin (II)	51.8	47.8	39.7	71.2	51.6
Zane (III)	51.4	41.7	45.0	79.0	51.7
A80-149020 (I)	48.1	43.0	41.2	68.0	45.5
A84-281015	51.2	46.0	41.2	69.5	50.1
A84-282009	49.6	44.0	40.7	72.3	50.9
A84-282011	51.2	47.3	34.1	72.1	48.8
A84-282019	52.2	48.6	41.3	74.5	56.2
A84-282036	48.5	40.5	33.9	69.2	58.1
A84-283002	46.0	43.5	39.2	69.4	51.0
A84-283009	49.4	45.6	40.3	73.7	49.4
A84-283016	50.4	41.3	37.1	72.6	60.6
A84-283034	48.5	45.6	39.4	69.4	49.2
A84-284001	47.5	42.1	41.1	74.6	53.1
A84-284005	51.6	45.5	40.3	71.5	54.1
A84-284007	49.0	45.1	44.0	73.6	54.2
A84-284008	49.6	44.5	42.3	74.0	53.9
A84-284023	51.5	50.0	33.7	71.8	57.6
A84-284033	51.9	42.2	39.8	79.8	56.6
LN82-296	48.4	47.4	42.0	66.8	49.0
LN82-4055	42.8	41.2	32.2	55.7	45.7
LN82-4858	46.6	41.5	33.8	71.5	53.2
LN82-8596	46.8	46.2	31.5	68.5	47.7
LN82-9535	44.9	46.0	32.5	61.2	48.7
LN82-9950	46.6	44.3	35.6	63.9	50.9
LN82-10484	46.6	44.5	36.5	67.7	44.2
M82-1058	43.8	39.9	30.5	58.8	40.7
U81-63087	47.4	42.8	37.9	70.4	49.1
U81-64002	47.7	45.7	34.2	68.9	49.5
U81-65008	47.3	45.5	37.0	71.8	48.4
U81-65009	46.4	46.3	35.5	67.3	37.2
U81-65026	47.0	46.3	34.4	66.1	45.0
U82-63017	44.4	40.1	36.4	71.9	38.9
U82-65126	46.4	42.3	39.2	67.3	45.6
U82-65142	44.6	44.9	42.3	64.8	44.5
U82-72035	46.2	43.0	36.4	66.8	43.1
C.V. (%)		6.4	6.7	4.3	8.2
L.S.D. (5%)		5.7	5.0	6.0	6.1
Row Sp. (In.)		27	27	30	24
Rows/Plot		4	4	4	4
Reps		2	2	2	2

PRELIMINARY TEST IIA, 1985

YIELD (bu/a)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
48.3	55.1	58.2	53.6	49.9	35.6
48.6	57.3	57.6	50.7	52.2	41.3
51.9	58.6	54.1	47.1	47.3	37.2
45.5	53.7	39.8	49.2	52.3	42.5
46.8	63.3	57.3	43.4	50.6	43.6
45.7	59.6	54.1	45.1	48.3	35.3
51.8	65.5	49.8	52.0	52.9	38.0
50.6	57.4	54.8	50.7	50.2	37.4
46.6	58.6	57.6	48.7	43.1	28.7
40.4	54.0	50.8	37.9	46.6	27.0
44.1	61.5	49.4	44.7	50.1	34.9
45.9	58.1	58.4	46.1	46.8	37.0
44.1	59.3	56.4	51.1	36.3	34.5
44.1	58.9	43.8	38.5	45.1	34.1
52.1	57.8	59.7	52.3	46.8	35.8
50.1	57.2	45.4	40.0	47.1	32.9
45.3	51.9	52.6	48.3	47.2	36.1
55.3	58.9	50.0	51.7	47.8	37.9
50.7	58.3	58.1	40.8	51.2	41.1
51.3	55.0	52.5	46.9	43.4	29.7
45.4	49.7	39.0	41.7	42.8	34.9
37.7	54.4	54.0	44.3	44.5	30.9
44.0	54.8	54.5	41.3	45.3	34.0
45.4	51.2	42.0	47.8	41.1	32.7
44.1	50.4	44.6	51.2	41.5	39.0
41.7	56.8	51.8	42.2	46.1	34.9
47.3	57.5	48.7	31.6	47.8	35.6
44.7	56.5	49.3	38.1	48.6	36.5
44.2	55.1	53.6	41.5	46.8	37.2
47.0	47.2	48.9	49.2	42.6	35.4
45.2	56.4	52.4	39.7	48.2	35.8
48.9	56.5	51.2	43.3	43.9	34.0
44.6	53.8	46.8	41.6	41.8	28.5
43.3	53.8	48.4	49.1	39.7	34.9
46.3	53.6	31.1	38.9	46.3	33.5
45.3	55.4	48.3	47.7	41.4	34.4
9.4	-	9.4	11.3	7.3	8.2
8.9	-	9.7	9.9	6.8	5.9
26	30	30	30	30	30
4	4	4	4	4	4
2	2	2	2	2	-

PRELIMINARY TEST IIA, 1985

YIELD RANK

Strain	Yield Rank	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Century 84	10	6	19	30	27
Elgin (II)	3	3	14	16	12
Zane (III)	6	30	1	2	11
A80-149020 (I)	18	24	7	24	29
A84-281015	7	10	7	18	16
A84-282009	10	21	10	9	14
A84-282011	7	5	29	10	22
A84-282019	1	2	6	4	5
A84-282036	15	34	30	21	2
A84-283002	31	23	16	19	13
A84-283009	13	13	11	6	18
A84-283016	9	32	20	8	1
A84-283034	15	13	15	19	19
A84-284001	20	29	9	3	10
A84-284005	4	15	11	14	7
A84-284007	14	17	2	7	6
A84-284008	10	19	3	5	8
A84-284023	5	1	32	12	3
A84-284033	2	28	13	1	4
LN82-296	17	4	5	28	21
LN82-4055	36	33	34	36	26
LN82-4858	25	31	31	14	9
LN82-8596	24	9	35	23	25
LN82-9535	32	10	33	34	23
LN82-9950	25	21	25	33	14
LN82-10484	25	19	22	25	32
M82-1058	35	36	36	35	34
U81-63087	21	26	18	17	20
U81-64002	19	12	28	22	17
U81-65008	22	15	21	12	24
U81-65009	28	6	26	26	36
U81-65026	23	6	27	30	30
U82-63017	34	35	23	11	35
U82-65126	28	27	16	26	27
U82-65142	33	18	3	32	31
U82-72035	30	24	23	28	33

PRELIMINARY TEST IIA, 1985

YIELD RANK

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

PRELIMINARY TEST IIA, 1985

MATURITY (Date)

Strain	Mean 9 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Century 84	+3.4	+2		+4	+6
Elgin (II)	9-21.4	9-12		9-8	9-8
Zane (III)	+4.7	+3		+8	+12
A80-149020 (I)	-1.6	-2		-2	0
A84-281015	+2.7	+2		+5	+5
A84-282009	+4.7	+3		+7	+9
A84-282011	+0.7	0		+3	+4
A84-282019	+6.7	+5		+8	+10
A84-282036	+5.3	+4		+7	+10
A84-283002	+4.8	+5		+5	+9
A84-283009	+5.7	+6		+8	+9
A84-283016	+5.1	+3		+6	+10
A84-283034	+5.3	+6		+6	+10
A84-284001	+7.1	+6		+9	+10
A84-284005	+8.2	+5		+10	+10
A84-284007	+6.8	+7		+9	+12
A84-284008	+6.9	+8		+8	+11
A84-284023	+9.2	+8		+10	+12
A84-284033	+6.0	+2		+7	+11
LN82-296	+4.6	+3		+4	+6
LN82-4055	-1.1	-2		+2	0
LN82-4858	+4.7	+4		+6	+10
LN82-8596	+5.3	+4		+7	+11
LN82-9535	+4.2	+2		+6	+9
LN82-9950	+2.4	+1		+4	+10
LN82-10484	-0.2	-2		+1	+2
M82-1058	+0.3	-2		+1	+1
U81-63087	+3.0	+1		+6	+4
U81-64002	+1.3	0		+4	+5
U81-65008	+6.3	+6		+7	+9
U81-65009	+2.9	+2		+3	+10
U81-65026	+6.2	+5		+6	+12
U82-63017	+3.9	0		+6	+7
U82-65126	+6.4	+6		+8	+12
U82-65142	+4.2	+4		+6	+8
U82-72035	+8.3	+5		+9	+11
Date Planted	5-15	5-3	-	5-7	5-7
Days to Mature	130	132	-	124	124

PRELIMINARY TEST IIA, 1985

MATURITY (Date)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
+3	+1	+1	+1	+5	+8
9-27	9-18	10-1	9-19	10-5	10-5
+3	+4	0	+1	+5	+6
-2	-1	-11	-5	+1	+8
+2	+6	-1	0	+1	+4
+2	+9	0	+1	+2	+9
+3	+1	-9	+1	0	+3
+8	+9	+1	+4	+6	+9
+8	+11	+2	+2	+4	+12
+7	+4	-1	0	+5	+9
+6	+7	0	+5	+4	+6
+5	+6	0	+2	+3	+11
0	+10	0	+2	+5	+9
+7	+10	0	+5	+5	+12
+8	+14	+2	+6	+7	+12
+5	+12	0	+6	+4	+6
+5	+10	+1	+6	+6	+7
+9	+14	+2	+10	+8	+10
+7	+10	+4	+3	+2	+10
+8	+2	-1	-1	+7	+13
+1	+1	-11	-5	+1	+3
+7	+5	-7	+2	+6	+9
+6	+6	-1	+1	+6	+8
+5	+2	-3	+1	+5	+11
+3	0	-11	0	+3	+12
+2	0	-8	0	+4	-1
+1	+2	-6	0	+2	+4
+2	+2	-1	-2	+3	+12
+4	0	-10	0	+3	+6
+7	+8	+1	+4	+5	+10
+4	+1	-5	+2	+3	+6
+7	+10	0	+3	+6	+7
+3	+4	-1	+2	+4	+10
+6	+4	+3	+2	+5	+12
+1	+1	+2	+1	+4	+11
+8	+11	+9	+5	+5	+12
5-8	5-23	5-30	5-10	5-24	5-21
142	118	124	132	134	137

PRELIMINARY TEST IIA, 1985

LODGING (Score)

Strain	Mean 10 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Century 84	1.4	1.2	1.3	1.0	1.0
Elgin (II)	1.9	1.3	1.3	1.5	1.3
Zane (III)	1.7	1.2	1.3	1.0	1.5
A84-149020 (I)	1.5	1.2	1.3	1.0	1.0
A84-281015	2.0	1.3	1.3	2.0	2.8
A84-282009	2.2	1.3	1.3	3.0	2.3
A84-282011	2.1	1.2	1.2	2.0	2.3
A84-282019	1.8	1.3	1.3	2.0	2.0
A84-282036	2.4	1.5	1.5	3.0	3.5
A84-283002	2.4	1.4	1.4	3.0	2.8
A84-283009	1.4	1.2	1.2	1.0	1.0
A84-283016	1.6	1.2	1.4	1.5	1.3
A84-283034	1.9	1.3	1.3	2.0	1.3
A84-284001	2.3	1.7	1.3	3.0	3.3
A84-284005	2.0	1.5	1.4	2.0	2.0
A84-284007	2.5	2.0	1.5	2.0	3.0
A84-284008	1.8	1.4	1.3	2.0	1.0
A84-284023	1.7	1.3	1.2	2.0	1.0
A84-284033	2.0	1.3	1.4	2.0	2.5
LN82-296	2.1	1.4	1.4	2.0	2.0
LN82-4055	2.5	1.6	1.5	2.5	3.0
LN82-4858	1.8	1.2	1.3	1.5	2.0
LN82-8596	1.4	1.2	1.2	1.0	1.0
LN82-9535	2.3	1.3	1.2	2.5	1.5
LN82-9950	2.0	1.3	1.2	2.0	1.3
LN82-10484	2.6	1.5	1.5	2.5	2.5
M82-1058	2.2	1.3	1.3	2.0	2.0
U81-63087	1.9	1.3	1.3	2.0	1.3
U81-64002	2.1	1.4	1.2	2.5	2.5
U81-65008	1.7	1.3	1.2	2.0	1.5
U81-65009	1.4	1.2	1.2	2.0	1.0
U81-65026	2.0	1.6	1.3	2.5	1.8
U82-63017	2.0	1.3	1.3	3.5	1.0
U82-65126	1.6	1.3	1.3	1.0	1.0
U82-65142	1.7	1.3	1.3	1.0	1.3
U82-72035	2.1	1.3	1.3	3.0	1.8

PRELIMINARY TEST IIA, 1985

LODGING (Score)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
1.5	1.0	2.0	1.2	1.0	3.0
2.5	1.0	3.0	1.3	2.0	3.3
1.5	1.0	3.0	1.2	2.0	3.0
1.5	1.0	3.0	1.3	1.5	2.5
2.0	1.3	2.0	1.4	2.0	3.8
3.0	1.5	2.5	1.4	2.5	3.5
2.0	1.3	3.0	1.5	2.5	3.5
2.0	1.0	1.5	1.3	2.0	3.5
2.5	1.8	2.5	1.5	2.0	4.0
2.0	1.8	4.0	1.6	2.0	4.3
2.0	1.0	1.5	1.2	1.0	3.0
2.0	1.0	1.5	1.3	1.5	3.5
2.5	1.5	1.5	1.4	2.0	3.8
2.0	2.0	2.5	1.3	2.0	3.5
2.5	1.8	1.0	1.3	1.5	4.5
3.5	2.0	3.0	1.5	2.0	4.3
2.5	1.0	2.0	1.5	2.0	3.5
2.0	1.3	1.5	1.4	2.0	3.5
2.0	1.8	2.0	1.5	2.0	3.8
2.0	1.3	3.0	1.6	2.0	4.0
2.5	1.3	4.5	1.6	3.0	3.8
2.0	1.0	2.5	1.4	2.0	3.1
1.5	1.0	1.5	1.4	1.5	3.0
2.0	1.3	4.0	1.9	2.5	4.5
2.0	1.3	4.0	1.4	2.0	3.3
3.5	2.0	4.0	1.6	3.0	3.5
3.0	1.3	3.5	1.7	2.5	3.5
3.0	1.0	2.0	1.4	1.5	3.8
2.0	1.3	3.0	1.4	2.5	3.3
1.5	1.0	1.5	1.7	2.0	3.0
1.0	1.0	1.5	1.2	1.0	2.5
2.0	1.5	3.0	1.4	2.0	3.3
2.0	1.5	2.5	1.3	2.0	3.5
2.0	1.0	2.0	1.4	1.5	3.3
1.5	1.0	3.0	1.3	1.5	3.3
2.5	1.3	3.5	1.4	1.5	3.8

PRELIMINARY TEST IIA, 1985

PLANT HEIGHT (Inches)

Strain	Mean 10 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Century 84	36	35	32	41	35
Elgin (II)	32	34	31	35	32
Zane (III)	37	36	36	39	35
A80-149020 (I)	34	36	31	37	33
A84-281015	40	44	38	44	40
A84-282009	37	38	34	40	37
A84-282011	34	35	31	37	35
A84-282019	35	36	33	40	37
A84-282036	38	42	40	40	37
A84-283002	36	38	34	39	36
A84-283009	37	40	35	44	35
A84-283016	32	33	32	37	31
A84-283034	36	36	33	40	36
A84-284001	38	41	36	41	41
A84-284005	38	38	38	43	38
A84-284007	40	44	38	42	37
A84-284008	36	40	32	38	38
A84-284023	34	34	34	38	33
A84-284033	42	46	40	46	43
LN82-296	39	39	36	43	38
LN82-4055	34	37	33	38	37
LN82-4858	37	38	38	40	36
LN82-8596	37	42	34	42	38
LN82-9535	36	36	33	41	36
LN82-9950	34	34	31	35	32
LN82-10484	37	38	34	42	35
M82-1058	34	32	28	35	36
U81-63087	35	34	34	40	32
U81-64002	39	40	36	44	41
U81-65008	41	40	39	42	41
U81-65009	35	35	32	40	29
U81-65026	37	38	38	39	38
U82-63017	38	41	36	42	35
U82-65126	38	39	35	45	34
U82-65142	38	42	35	47	35
U82-72035	39	37	37	47	33

PRELIMINARY TEST IIA, 1985

PLANT HEIGHT (Inches)

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

PRELIMINARY TEST IIA, 1985

SEED QUALITY (Score)

Strain	Mean 8 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Century 84	1.9	1.8		1.9	2.0
Elgin (II)	2.0	1.9		1.7	2.0
Zane (III)	2.2	2.4		1.8	2.0
A80-149020 (I)	2.3	2.2		1.9	3.0
A84-281015	2.2	1.9		2.2	2.0
A84-282009	2.6	2.7		1.9	2.0
A84-282011	2.0	2.0		1.7	2.0
A84-282019	2.1	2.3		1.8	2.5
A84-282036	2.2	2.8		1.5	2.0
A84-283002	2.5	2.7		1.8	2.5
A84-283009	2.3	1.9		1.8	2.5
A84-283016	2.1	1.7		1.5	2.5
A84-283034	2.1	2.3		1.7	2.0
A84-284001	2.5	2.2		1.7	2.5
A84-284005	2.1	1.9		1.5	2.0
A84-284007	2.3	2.8		1.9	2.5
A84-284008	2.4	3.1		2.1	2.0
A84-284023	2.0	2.0		1.3	2.0
A84-284033	2.1	1.9		1.8	2.0
LN82-296	2.3	2.1		1.8	2.5
LN82-4055	1.9	1.8		1.4	2.0
LN82-4858	2.0	2.2		1.9	2.0
LN82-8596	1.7	1.6		1.5	1.5
LN82-9535	2.1	1.7		1.7	2.5
LN82-9950	2.2	1.9		2.1	2.5
LN82-10484	2.1	1.9		1.8	2.0
M82-1058	2.2	2.2		2.0	2.0
U81-63087	2.0	2.0		1.9	1.5
U81-64002	2.4	1.8		1.9	3.0
U81-65008	2.3	2.6		1.8	2.0
U81-65009	2.2	2.2		1.9	1.5
U81-65026	2.3	1.8		2.3	1.5
U82-63017	2.1	2.1		1.8	2.0
U82-65126	2.3	2.8		1.8	2.0
U82-65142	2.2	2.5		2.1	2.0
U82-72035	2.0	1.9		2.0	1.5

PRELIMINARY TEST IIA, 1985

SEED QUALITY (Score)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
	1.5	2.0	2.2	2.0	2.0
	1.3	2.0	2.1	2.0	3.0
	1.8	2.0	2.4	2.0	3.5
	1.8	3.0	2.6	2.0	2.0
	1.5	2.0	1.6	3.0	3.0
	2.0	3.0	1.3	3.0	4.5
	1.5	2.0	1.4	3.0	2.0
	1.3	2.0	1.2	3.0	2.5
	1.5	2.0	1.3	4.0	2.5
	1.3	2.0	1.3	4.0	4.0
	1.8	3.0	1.7	2.3	3.0
	1.8	2.5	1.7	3.0	2.0
	1.5	2.0	1.4	3.0	2.5
	1.5	3.0	1.8	3.0	4.5
	1.8	2.0	1.2	3.0	3.0
	2.0	2.0	1.4	3.0	3.0
	2.3	2.0	1.5	3.0	3.0
	1.5	2.0	1.1	4.0	2.0
	1.5	2.0	1.8	2.0	3.5
	1.0	2.5	1.9	3.0	3.5
	2.0	2.0	1.2	2.0	2.5
	1.3	2.0	1.4	3.0	2.5
	1.8	2.0	1.2	2.0	2.0
	1.0	3.0	1.8	2.0	3.0
	1.0	2.5	1.7	3.0	3.0
	1.3	2.0	1.9	3.0	3.0
	1.0	3.0	2.1	3.0	2.5
	1.3	2.0	1.5	3.0	2.5
	1.8	3.5	1.6	3.0	2.5
	1.8	2.0	2.6	3.0	2.5
	1.3	3.0	2.1	2.0	3.5
	1.3	2.5	2.6	3.0	3.0
	1.3	2.0	1.4	3.0	3.0
	1.8	2.0	1.6	3.0	3.0
	1.3	2.5	1.3	3.0	2.0
	1.5	2.5	1.4	3.0	2.5

PRELIMINARY TEST IIA, 1985

SEED SIZE (g/100)

Strain	Mean 9 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Century 84	19.2	18.8		19.9	18.8
Elgin (II)	18.8	16.9		19.9	17.5
Zane (III)	20.6	18.4		23.4	21.2
A80-149020 (I)	18.3	16.8		19.1	19.1
A84-281015	16.8	14.8		18.6	16.5
A84-282009	17.0	16.2		18.9	18.4
A84-282011	17.4	16.4		19.5	17.4
A84-282019	18.6	17.8		20.2	18.7
A84-282036	17.4	16.4		18.3	19.1
A84-283002	16.4	15.7		18.2	18.1
A84-283009	17.1	15.6		19.2	17.2
A84-283016	17.8	15.7		20.1	19.6
A84-283034	18.3	16.6		20.2	18.6
A84-284001	16.5	15.1		18.4	18.0
A84-284005	16.7	16.2		18.7	18.2
A84-284007	14.8	13.2		17.1	14.8
A84-284008	16.4	14.7		19.5	15.9
A84-284023	16.9	15.7		18.8	17.3
A84-284033	20.2	19.0		22.7	21.8
LN82-296	20.4	21.0		21.1	21.9
LN82-4055	18.9	17.8		21.2	17.8
LN82-4858	18.1	18.1		19.9	18.1
LN82-8596	17.2	16.7		18.7	18.2
LN82-9535	19.7	17.9		21.0	21.2
LN82-9950	19.7	18.8		21.4	20.3
LN82-10484	18.6	17.9		20.3	18.7
M82-1058	17.6	16.3		19.7	17.1
U81-63087	18.4	16.9		20.4	18.2
U81-64002	20.7	19.7		23.2	20.8
U81-65008	18.7	17.1		20.5	18.5
U81-65009	19.1	18.4		20.9	18.5
U81-65026	19.0	19.3		20.6	20.4
U82-63017	21.5	20.8		23.4	21.8
U82-65126	19.1	17.8		20.9	21.0
U82-65142	20.5	19.8		23.2	19.8
U82-72035	19.2	18.0		20.5	17.9

PRELIMINARY TEST IIA, 1985

SEED SIZE (g/100)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
20.7	20.5	17.5	19.1	21.2	15.8
21.0	17.7	18.0	17.3	23.5	17.1
22.9	21.5	19.5	18.6	22.5	17.1
18.7	19.3	16.5	17.4	21.7	16.3
17.4	18.9	17.0	15.8	18.7	13.7
17.2	17.5	17.0	16.0	18.9	12.8
18.1	18.5	17.0	16.3	19.2	14.0
19.7	20.3	17.5	17.7	20.7	15.1
19.2	18.9	17.5	16.6	18.5	12.4
17.3	18.0	16.0	14.8	18.2	11.6
18.0	18.8	17.0	15.9	18.2	13.6
18.9	18.5	18.0	15.0	19.0	15.1
19.2	19.7	18.5	17.8	19.7	14.7
18.2	17.2	16.0	13.7	17.7	13.9
18.4	18.0	16.5	15.6	16.7	13.4
16.0	15.5	15.5	13.1	16.6	12.3
17.2	16.1	17.0	15.3	17.5	14.0
18.2	18.0	17.0	16.1	16.8	14.5
21.7	22.0	18.5	18.9	22.1	15.3
22.0	21.6	19.0	20.5	20.8	15.5
20.4	19.0	17.0	18.0	22.0	17.1
19.4	18.9	17.0	16.5	20.4	14.6
17.7	18.8	17.0	15.8	18.0	13.6
21.5	19.7	18.0	19.7	22.3	16.0
21.5	19.6	18.5	19.0	21.4	16.5
20.7	20.2	17.5	17.0	20.9	14.0
18.6	20.0	17.0	15.7	19.6	14.5
19.0	19.9	18.0	16.8	20.1	16.1
22.0	22.2	17.5	19.3	24.4	17.2
21.1	19.3	18.0	18.2	20.2	15.3
21.1	20.5	17.0	18.0	21.8	15.3
21.3	21.1	17.0	17.3	19.0	15.4
22.4	23.7	20.0	20.3	24.3	16.6
21.4	20.9	17.5	19.6	16.7	15.8
22.1	22.0	19.0	20.0	21.3	17.0
20.6	20.9	19.5	19.6	19.5	15.9

PRELIMINARY TEST IIA, 1985

PROTEIN (%)

Strain	Mean 3 Tests	Ames IA	Urbana IL	Lafayette IN
Century 84	42.6	41.0	43.0	43.8
Elgin (II)	38.1	36.5	38.7	39.1
Zane (III)	38.9	37.5	39.6	39.6
A80-149020 (I)	38.5	36.6	38.9	39.9
A84-281015	38.7	37.3	39.5	39.3
A84-282009	40.5	38.3	42.0	41.1
A84-282011	38.5	37.5	39.4	38.5
A84-282019	40.3	38.1	40.8	42.1
A84-282036	38.8	38.8	38.7	39.0
A84-283002	41.0	39.5	42.2	41.3
A84-283009	40.1	38.5	40.3	41.6
A84-283016	42.0	41.3	42.1	42.5
A84-283034	40.7	39.7	41.3	41.0
A84-284001	42.7	41.5	44.2	42.4
A84-284005	40.3	39.3	40.9	40.6
A84-284007	39.0	37.8	40.0	39.3
A84-284008	41.0	41.1	41.8	40.2
A84-284023	42.7	41.7	41.7	44.8
A84-284033	38.4	37.1	39.3	38.7
LN82-296	41.4	39.5	41.8	42.9
LN82-4055	41.9	40.8	42.8	42.1
LN82-4858	42.1	40.9	41.9	43.4
LN82-8596	42.2	41.7	42.2	42.6
LN82-9535	41.0	38.8	40.8	43.5
LN82-9950	42.5	40.1	42.7	44.6
LN82-10484	38.4	37.2	39.0	39.1
M82-1058	39.3	38.0	40.6	39.4
U81-63087	41.4	39.7	43.3	41.2
U81-64002	38.3	36.1	39.8	39.0
U81-65008	41.4	40.2	42.1	42.0
U81-65009	40.9	39.7	41.5	41.5
U81-65026	40.4	38.5	42.1	40.7
U82-63017	39.1	37.5	39.6	40.3
U82-65126	40.4	39.9	40.2	41.1
U82-65142	41.3	41.5	41.4	41.1
U82-72035	41.4	40.7	41.1	42.3

PRELIMINARY TEST IIA, 1985

OIL (%)

Mean 3 Tests	Ames IA	Urbana IL	Lafayette IN
20.2	21.1	19.4	20.1
22.1	22.5	21.9	22.0
22.8	22.8	22.6	22.9
21.8	23.1	20.8	21.4
21.8	22.7	21.0	21.7
21.8	22.9	21.0	21.5
22.4	23.0	21.4	22.8
22.2	23.0	22.4	21.1
22.1	21.9	22.1	22.4
21.2	21.7	20.4	21.5
20.8	21.4	20.5	20.5
20.5	20.9	19.9	20.8
20.8	21.3	20.6	20.6
20.0	20.1	19.6	20.2
22.2	22.5	22.0	22.0
21.4	21.7	20.9	21.7
20.3	20.1	20.1	20.6
20.6	20.9	21.0	19.9
22.0	22.4	21.0	22.5
21.5	22.4	21.4	20.6
21.1	21.1	20.7	21.4
21.2	21.9	20.7	21.0
19.8	20.4	19.2	19.7
20.3	21.3	20.3	19.3
19.8	20.6	19.1	19.7
21.9	22.2	21.8	21.8
22.7	23.3	22.0	22.9
21.9	22.7	20.8	22.1
22.8	23.8	21.6	23.1
20.4	20.6	19.5	21.0
21.0	21.6	20.4	21.0
21.7	21.9	21.3	21.9
23.0	23.0	23.1	22.8
21.0	21.3	20.7	21.0
20.7	20.8	20.2	21.2
20.9	21.2	20.5	20.9

PRELIMINARY TEST IIB, 1985

Strain	Parentage	Generation Composited
Century 84	Century^{5} x Williams 82	BC_4F_3
Elgin (II)	AP6(2YT) (F_4)C1	F_4
Zane (III)	Cumberland x Pella	F_5
A80-149020 (I)	L69U40-16-4 x A76-304020	F_4
C1663	A75-305022 x Century	F_6
C1664	A75-305022 x Century	F_6
C1679	Hobbit x Amcor	F_6
E82046	NKG S1346 x A76-202015	F_6
E83015	Hardin x A75-305022	F_6
E83053	Hardin x A75-305022	F_6
E83064	H7847 x [Hobbit x (Williams x Tracy)]	F_6
E83065	H7847 x [Hobbit x (Williams x Tracy)]	F_6
HM8425	Weber x K79-1	F_6
HM8426	A76-103002 x K79-1	F_6
HM8430	A75-305022 x Shawnee	F_6
HM8476	Weber x K79-1	F_6
Gnome 85	Gnome^{6} x Williams 82	BC_5F_3
C1674	Hobbit x M70-128	F_6
C1676	Hobbit x Lakota	F_6
C1678	Hobbit x Lakota	F_6
C1686	Lakota x CX663-37-2-2	F_6
C1688	Amcor x CX663-37-2-2	F_6
HC80-1742	Union x Gnome	F_5
HC80-1941	L73U632 x Elf	F_5
HC80-1943	L73U632 x Elf	F_5
HC80-2030	Elf x Gnome	F_5
HC81-1586	Sprite x Gnome	F_5
HC81-1805	Hobbit x K74-104-76-165	F_5
HC81-2072	HC74-678 x Hobbit	F_5
HC81-2268	Weber x Sprite	F_5
HC81-2792	Gnome x Sprite	F_5
HC81-3924	Gnome x Sprite	F_5
HC81-4121	HC74-3400 x Sprite	F_5
HC82-1363	Williams x Ransom	F_5
HC82-1386	Williams x Ransom	F_5
HC82-9680	Elf x Gnome	F_5

PRELIMINARY TEST IIB, 1985

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score	Shattering Score	BSR	DM	PM
			Ames	Manhattan	Urbana		
					Score		
Century 84	PTBSYBl	I	3.5	1.0	3.0	2.0	1
Elgin (II)	PTBSYBl	I	3.8	1.0	2.0	1.0	1
Zane (III)	PGBDYBf	I	3.7	1.0	2.5	2.0	1
A80-149020(I)	PGTDYIb	I	2.3	1.0	1.0	1.0	1
C1663	WTBSYBr	I	3.2	1.0	2.5	2.0	1
C1664	WTBSYBr	I	2.2	1.0	2.5	2.0	1
C1679	PTBSYBr	I	3.7	2.0	2.0	2.0	2
E82046	P+WTBDYBl	I	3.3	1.0	3.0	2.0	1
E83015	PTBDYY	I	3.7	1.0	2.5	2.0	4
E83053	WGTSYBf	I	4.0	1.0	2.0	1.5	1
E83064	WTBDYBl	I	3.8	2.0	1.5	1.0	1
E83065	WTTDYBl	SD	2.5	1.0	2.0	1.0	1
HM8425	WTBDYBl	I	3.3	1.0	2.5	1.0	1
HM8426	WTBSYGr	I	4.5	2.0	1.0	2.0	1
HM8430	WGBDYY	I	3.5	1.0	1.5	1.0	4
HM8476	WTBSYBl	SD	3.8	1.0	1.5	1.0	1
Gnome 85	PTTDYBl	D	3.7	1.0	1.5	1.0	3
C1674	PTTDYBl+Gr	D	3.8	1.0	1.0	1.5	3
C1676	WTTDYBl	D	3.2	1.0	2.0	2.0	1
C1678	WTTDYBl	D	4.2	1.0	1.5	2.5	3
C1686	PTTDYBl	D	2.0	1.0	2.5	2.5	1
C1688	PGTSYY	D	3.7	1.0	1.0	1.0	3
HC80-1742	PTTDYBl	D	3.2	1.0	1.0	1.0	1
HC80-1941	WTTDYBl	D	2.3	1.0	1.0	1.0	1
HC80-1943	WTTDYBl	D	2.7	1.0	1.0	1.0	1
HC80-2030	PTTSYBl	D	3.5	1.0	1.0	1.0	3
HC81-1586	P+WTTSYBl	D	3.8	1.0	1.0	1.0	3
HC81-1805	P+WTTSYBl	D	4.5	1.0	1.5	1.5	1
HC81-2072	PTTSYBl	D	4.2	1.0	1.0	1.0	2
HC81-2268	WTTDYBl	D	2.7	1.0	1.5	1.5	2
HC81-2792	PTTSYBl	D	4.0	1.0	1.0	1.0	1
HC81-3924	PTTSYBl	D	3.5	1.0	1.0	1.0	1
HC81-4121	PTTSYBl	D	3.0	1.0	1.0	1.0	1
HC82-1363	WTTSYBl	D	3.5	1.0	1.0	1.0	2
HC82-1386	WTTSYBl	D	4.5	1.0	1.5	1.5	1
HC82-9680	PTTSYBl	D	3.5	1.0	1.0	1.0	2

PRELIMINARY TEST IIB, 1985

DISEASE DATA

Strain	BSR Ames Plant N %	BSR Ames Stem N %	PR Ames Race4 --Reaction--	PR Lafayette Race1 --Reaction--	PR Vickery Tolerance Score	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a Score	Germ %
Century 84	60	32.5	R	R	2.8	40	16	4E	80
Elgin (II)	40	26.5	S	S	3.3	53	3	5E	83
Zane (III)	60	29.2	S	H	3.0	54	10	4E	86
A80-149020(I)	10	1.2	S	R	3.3	67	12	2E	76
C1663	100	75.8	S	R	2.9	86	12	3E	76
C1664	90	85.7	H	S	3.1	53	10	4E	90
C1679	100	80.8	S	R	3.3	78	8	3M	86
E82046	90	52.6	S	S	3.1	53	16	3E	78
E83015	100	76.0	S	R	3.6	84	16	3E	70
E83053	90	65.0	S	R	3.5	68	14	2M	86
E83064	80	51.1	R	R	2.5	23	0	3M	88
E83065	50	34.0	S	S	2.9	26	8	1	80
HM8425	100	73.7	R	R	2.9	35	10	3E	88
HM8426	100	69.5	R	R	2.8	46	10	5E	88
HM8430	100	62.2	S	S	3.0	44	14	5E	80
HM8476	100	96.0	R	R	3.0	8	4	5E	90
Gnome	100	86.2	R	R	3.1	24	0	2E	94
C1674	100	74.8	S	S	3.5	43	12	3S	70
C1676	100	96.0	S	S	3.3	47	2	1	90
C1678	100	91.1	S	H	3.6	37	4	1	98
C1686	100	75.8	S	S	3.4	44	2	5E	88
C1688	100	75.1	S	H	2.9	46	6	4E	86
HC80-1742	100	96.0	R	R	3.8	51	8	5E	74
HC80-1941	100	96.0	R	R	3.4	35	12	4E	82
HC80-1943	100	94.1	R	H	3.4	72	16	4E	84
HC80-2030	100	95.3	S	S	4.0	22	2	3M	86
HC81-1586	100	100.0	S	S	3.5	-	0	2E	82
HC81-1805	100	82.1	S	H	2.9	21	4	2M	90
HC81-2072	100	82.6	S	H	2.8	19	2	3E	64
HC81-2268	100	84.5	S	S	3.4	39	8	4E	86
HC81-2792	100	100.0	S	S	3.1	-	6	4E	92
HC81-3924	100	96.6	S	S	3.3	68	10	3E	86
HC81-4121	100	93.3	S	S	3.5	21	6	3E	82
HC82-1363	100	100.0	S	H	3.8	26	2	4E	90
HC82-1386	100	81.0	S	S	3.1	22	2	1	92
HC82-9680	100	90.8	S	S	3.5	32	2	5E	96

PRELIMINARY TEST IIB, 1985

Regional Summary

Strain No. of Tests	Yield 10 bu/a	Rank 10 No.	Maturity 9 Date	Lodging 10 Score	Plant Height 10 In	Seed Quality 8 Score	Seed Size 9 g/100	Composition Protein 3 %	 Oil 3 %
Century 84	50.8	4	+3.8	1.5	35	1.9	19.3	42.6	20.3
Elgin (II)	50.1	10	9-21.4*	1.9	31	2.1	18.0	37.5	22.4
Zane (III)	50.3	7	+4.2	1.8	36	2.0	21.2	39.5	22.6
A80-149020 (I)	48.4	24	-1.4	1.6	33	2.1	18.0	38.3	21.8
C1663	49.9	13	-0.1	1.6	35	2.3	19.8	39.8	21.4
C1664	50.6	5	+5.6	1.4	32	2.1	15.2	38.2	22.1
C1679	48.9	19	+1.7	1.6	38	2.1	18.0	38.5	22.4
E82046	49.3	16	+5.6	2.3	33	2.1	19.5	37.8	22.3
E83015	48.1	25	+3.3	3.3	41	2.1	17.1	38.3	22.4
E83053	45.5	34	-2.0	1.8	31	2.0	20.2	41.3	21.0
E83064	47.0	32	+11.0	2.0	46	2.3	17.0	40.4	22.3
E83065	48.9	19	+7.4	1.2	27	2.0	15.9	38.7	22.5
HM8425	47.3	31	+6.4	2.7	33	2.2	18.0	42.6	20.9
HM8426	49.2	17	+7.2	2.1	39	2.5	16.6	42.0	20.5
HM8430	44.0	35	+5.7	2.2	38	2.3	15.6	41.4	20.6
HM8476	49.8	14	+8.3	1.8	32	1.8	16.6	42.0	19.9
Gnome 85	48.5	23	+5.1	1.6	24	1.9	16.9	41.2	21.0
C1674	47.8	27	+4.8	1.8	27	2.0	16.9	40.6	21.3
C1676	48.1	25	+2.9	1.8	27	2.0	15.8	40.2	21.2
C1678	51.3	2	0.0	1.4	24	1.5	16.6	39.6	21.9
C1686	50.1	10	+5.0	1.3	29	2.1	15.9	43.9	20.0
C1688	47.5	30	+7.8	1.4	28	1.9	16.0	41.3	20.3
HC80-1742	50.1	10	+2.4	1.4	24	1.8	17.9	41.5	20.3
HC80-1941	43.9	36	+1.9	1.3	23	2.0	17.3	41.8	20.6
HC80-1943	48.9	19	+3.3	1.4	26	1.0	18.0	41.9	20.8
HC80-2030	47.7	28	+6.7	1.6	23	1.9	17.2	40.7	21.3
HC81-1586	50.2	9	+6.9	1.8	25	1.8	17.9	39.8	22.5
HC81-1805	47.6	29	+6.2	1.3	22	2.0	17.6	38.4	22.2
HC81-2072	46.8	33	+8.3	1.7	29	2.1	16.9	40.5	22.6
HC81-2268	50.3	7	+6.7	1.4	25	1.9	15.0	39.5	21.6
HC81-2792	51.0	3	+6.9	1.8	27	2.0	16.1	38.3	22.7
HC81-3924	50.6	5	+5.0	1.4	24	1.8	16.6	38.0	22.6
HC81-4121	49.7	15	+4.6	1.5	26	2.0	17.3	39.1	22.5
HC82-1363	48.6	22	+5.6	1.6	24	1.7	16.6	40.9	21.5
HC82-1386	52.4	1	+8.9	2.1	32	1.7	19.5	41.3	21.3
HC82-9680	49.2	17	+4.7	1.4	22	1.8	16.4	41.4	20.9

* 129 Days After Planting

PRELIMINARY TEST IIB, 1985

YIELD (bu/a)

Strain	Mean 10 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Century 84	50.8	44.1	38.2	66.1	54.6
Elgin (II)	50.1	43.8	39.9	71.2	50.8
Zane (III)	50.3	43.0	44.2	79.0	55.2
A80-149020 (I)	48.4	41.9	42.9	68.0	53.2
C1663	49.9	42.1	35.7	69.2	53.7
C1664	50.6	46.9	35.5	77.7	59.9
C1679	48.9	37.6	34.5	69.0	57.5
E82046	49.3	38.3	38.9	75.6	61.5
E83015	48.1	44.2	39.0	66.5	61.6
E83053	45.5	39.8	37.1	59.3	54.0
E83064	47.0	38.5	33.1	68.0	58.7
E83065	48.9	50.7	35.1	63.2	58.0
HM8425	47.3	43.2	40.5	67.6	57.8
HM8426	49.2	37.5	38.3	73.6	52.3
HM8430	44.0	27.1	37.6	68.3	53.4
HM8476	49.8	36.4	36.5	74.2	62.6
Gnome 85	48.5	43.6	35.5	72.1	60.3
C1674	47.8	42.9	35.0	70.7	56.5
C1676	48.1	43.4	35.9	70.2	59.3
C1678	51.3	45.3	35.4	66.8	57.3
C1686	50.1	45.1	36.3	73.6	57.7
C1688	47.5	41.1	35.4	71.1	58.3
HC80-1742	50.1	44.7	43.5	71.9	55.7
HC80-1941	43.9	39.2	36.4	62.7	52.3
HC80-1943	48.9	47.0	41.4	69.7	53.0
HC80-2030	47.7	43.1	37.4	68.5	58.5
HC81-1586	50.2	45.9	35.5	73.5	65.9
HC81-1805	47.6	49.1	38.5	66.3	59.7
HC81-2072	46.8	36.7	34.4	72.3	58.0
HC81-2268	50.3	46.4	41.8	67.9	55.0
HC81-2792	51.0	48.4	35.6	73.4	66.4
HC81-3924	50.6	48.0	39.8	69.5	60.6
HC81-4121	49.7	44.0	40.2	68.9	62.5
HC82-1363	48.6	42.6	35.9	71.7	59.6
HC82-1386	52.4	49.6	40.0	76.1	56.6
HC82-9680	49.2	45.1	41.0	72.9	58.4
C.V. (%)		7.3	5.7	4.3	7.0
L.S.D. (5%)		6.3	4.4	6.0	6.7
Row Sp. (In.)		27	27	30	24
Rows/Plot		4	4	4	4
Reps		2	2	2	2

PRELIMINARY TEST IIB, 1985

YIELD (bu/a)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
52.8	52.5	56.0	47.5	60.4	35.9
50.7	51.7	52.3	45.8	54.9	39.9
51.7	55.7	50.8	42.9	46.9	34.0
35.3	56.1	51.8	44.2	52.9	37.8
45.9	55.2	54.0	49.3	55.7	38.2
50.8	54.0	56.6	44.0	52.5	31.9
51.6	52.3	58.0	46.2	48.0	34.6
47.1	53.5	50.2	45.1	46.1	37.0
37.4	54.2	49.3	41.9	51.7	35.6
34.2	54.2	44.4	43.0	51.8	37.1
42.1	49.1	61.2	48.6	39.2	31.1
38.6	50.9	63.2	48.8	47.3	33.3
50.9	47.8	44.4	43.7	47.1	30.4
52.9	51.7	60.6	47.0	48.7	28.9
43.8	54.5	46.0	41.3	39.2	28.5
41.4	50.8	55.8	57.4	49.8	32.7
38.8	51.5	57.4	46.4	46.5	32.9
47.9	50.5	57.0	42.8	40.2	34.1
45.3	51.6	51.8	40.0	47.8	36.0
47.3	61.0	52.4	50.1	56.7	41.0
46.9	55.5	54.9	43.9	47.0	40.2
45.5	53.2	58.2	44.7	38.3	28.8
38.3	57.0	56.0	44.4	51.3	38.4
34.8	48.6	44.0	42.5	47.9	30.7
45.1	56.3	51.8	37.8	50.2	36.8
37.3	56.0	58.8	45.2	42.7	29.2
45.6	49.4	53.2	48.0	48.8	36.1
30.5	50.8	46.4	48.8	48.6	37.7
42.0	53.4	51.0	44.9	42.3	32.9
43.3	54.7	62.6	43.9	50.9	36.1
48.8	54.1	57.2	42.1	47.6	36.8
39.3	61.8	53.2	45.1	53.6	35.4
40.5	57.4	61.8	40.9	44.5	36.0
43.1	52.2	54.4	50.0	45.1	31.7
55.1	60.5	56.9	50.6	43.7	35.2
42.4	52.6	48.0	45.2	47.7	38.7
9.4	-	10.4	9.9	6.5	8.9
8.4	-	11.4	N.S.	6.2	6.3
20	30	30	30	30	30
4	4	4	4	4	4
2	2	2	2	2	-

PRELIMINARY TEST IIB, 1985

YIELD RANK

Strain	Yield Rank	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Century 84	4	15	16	33	28
Elgin (II)	10	17	10	15	36
Zane (III)	7	22	1	1	26
A80-149020 (I)	24	26	3	26	32
C1663	13	25	25	21	30
C1664	5	7	27	2	9
C1679	19	32	34	22	21
E82046	16	31	13	4	6
E83015	25	14	12	31	5
E83053	34	28	19	36	29
E83064	32	30	36	26	13
E83065	19	1	32	34	17
HM8425	31	20	7	29	19
HM8426	17	33	15	6	34
HM8430	35	35	17	25	31
HM8476	14	35	20	5	3
Gnome 85	23	18	27	12	8
C1674	27	23	33	17	24
C1676	25	19	23	18	12
C1678	2	10	30	30	22
C1686	10	11	22	6	20
C1688	30	27	30	16	16
HC80-1742	10	13	2	13	25
HC80-1941	36	29	21	35	34
HC80-1943	19	6	5	19	33
HC80-2030	28	21	18	24	14
HC81-1586	9	9	27	8	2
HC81-1805	29	3	14	32	10
HC81-2072	33	34	35	11	17
HC81-2268	7	8	4	28	27
HC81-2792	3	4	26	9	1
HC81-3924	5	5	11	20	7
HC81-4121	15	16	8	23	4
HC88-1363	22	24	23	14	11
HC82-1386	1	2	9	3	23
HC82-9680	17	11	6	10	15

PRELIMINARY TEST IIB, 1985

YIELD RANK

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

PRELIMINARY TEST IIB, 1985

MATURITY (Date)

Strain	Mean 9 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Century 84	+3.8	+4		+4	+4
Elgin (II)	9-21.4	9-11		9-8	9-12
Zane (III)	+4.2	+4		+8	+8
A80-149020 (I)	-1.4	0		-2	-1
C1663	-0.8	-2		+1	0
C1664	+5.6	+7		+6	+7
C1679	+1.7	0		+3	+6
E82046	+5.6	0		+9	+12
E83015	+3.3	+2		+3	+7
E83053	-2.0	-4		+3	+5
E83064	+11.0	+9		+12	+12
E83065	+7.4	+10		+8	+9
HM8425	+6.4	+5		+8	+8
HM8426	+7.2	+3		+8	+9
HM8430	+5.7	+6		+2	+7
HM8476	+8.3	+7		+10	+10
Gnome 85	+5.1	+7		+7	+7
C1674	+4.8	+6		+6	+7
C1676	+2.9	+5		+2	+3
C1678	0.0	0		0	+3
C1686	+5.0	+6		+4	+6
C1688	+7.8	+9		+9	+12
HC80-1742	+2.4	+2		+1	+4
HC80-1941	+1.9	+1		-2	+3
HC80-1943	+3.3	+3		+1	+4
HC80-2030	+6.8	+6		+9	+8
HC81-1586	+6.9	+6		+9	+8
HC81-1805	+6.2	+8		+9	+10
HC81-2072	+8.3	+7		+6	+11
HC81=2268	+6.7	+8		+8	+7
HC81-2792	+6.9	+8		+8	+6
HC81-3924	+5.0	+6		+6	+7
HC81-4121	+4.6	+7		+6	+7
HC82-1363	+5.6	+8		+7	+7
HC82-1386	+8.9	+8		+10	+11
HC82-9630	+4.7	+7		+8	+7
Date Planted	5-15	5-3	5-13	5-7	5-7
Days to Mature	130	131	-	124	128

PRELIMINARY TEST IIB, 1985

MATURITY (Date)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
+3	-2	+2	+2	+5	+12
9-27	9-17	9-30	9-18	10-5	10-5
+3	+2	-1	0	+6	+8
+1	-3	-8	-3	+1	+2
-2	-2	1	+1	+1	-3
+7	0	+2	+6	+6	+9
+2	0	-5	+2	+1	+6
+2	+2	+9	+5	+1	+10
+4	-1	-1	+1	+3	+12
-1	-8	-11	-4	-1	+3
+12	+14	+9	+11	+11	+13
+11	+2	+2	+11	+8	+6
+10	0	+7	+5	+3	+12
+7	+3	+14	+4	+5	+12
+7	+1	+12	+4	+4	+8
+9	+2	+16	+7	+5	+9
+6	0	+2	+7	+5	+5
+6	0	+4	+6	+3	+5
+5	0	+1	+2	+2	+6
+1	0	-5	+4	0	-3
+9	+2	-2	+6	+8	+6
+11	+2	+2	+8	+8	+9
+3	-1	+5	+3	+3	+2
+3	0	+8	+3	+2	-1
+3	0	+5	+4	+3	+7
+7	+4	+11	+7	+6	+3
+3	+4	+16	+5	+3	+8
+10	+3	+1	+11	+5	-1
+9	+3	+16	+7	+7	+9
+6	+3	+14	+5	+4	+5
+10	+1	+12	+6	+5	+6
+3	+1	+12	+4	+3	+3
+6	0	+2	+5	+5	+3
+5	+1	+5	+6	+5	+6
+7	+1	+21	+7	+5	+10
+5	0	+2	+6	+7	0
5-8	5-23	5-30	5-10	5-24	5-21
142	119	123	131	133	137

PRELIMINARY TEST IIB, 1985

LODGING (Score)

Strain	Mean 10 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Century 84	1.5	1.2	1.3	1.0	1.0
Elgin (II)	1.9	1.5	1.4	1.5	1.0
Zane (III)	1.8	1.2	1.4	1.0	1.0
A80-149020 (I)	1.6	1.2	1.3	1.0	1.0
C1663	1.6	1.2	1.2	1.5	1.0
C1664	1.4	1.2	1.2	1.0	1.0
C1679	1.6	1.2	1.2	1.0	1.0
E82046	2.3	1.3	1.5	2.5	1.8
E83015	3.3	2.1	2.6	5.0	3.3
E83053	1.8	1.3	1.4	1.5	1.3
E83064	2.0	1.5	1.6	2.0	1.5
E83065	1.2	1.2	1.3	1.0	1.0
HM8425	2.7	1.4	1.6	4.0	2.3
HM8426	2.1	1.3	1.3	3.5	1.0
HM8430	2.2	1.5	1.6	2.0	2.0
HM8476	1.8	1.4	1.4	1.5	1.0
Gnome 85	1.6	1.3	1.5	1.0	1.0
C1674	1.8	1.4	1.3	1.0	1.0
C1676	1.8	1.3	1.3	1.0	1.0
C1678	1.4	1.3	1.3	1.0	1.0
C1686	1.3	1.2	1.2	1.0	1.0
C1688	1.4	1.3	1.3	1.0	1.0
HC80-1742	1.4	1.3	1.4	1.0	1.0
HC80-1941	1.3	1.3	1.4	1.0	1.0
HC80-1943	1.4	1.4	1.5	1.0	1.0
HC80-2030	1.6	1.3	1.7	1.0	1.0
HC81-1586	1.8	1.4	1.7	1.0	1.5
HC81-1805	1.3	1.3	1.4	1.0	1.0
HC81-2072	1.7	1.4	1.6	1.0	1.3
HC81-2268	1.4	1.3	1.4	1.0	1.0
HC81-2792	1.8	1.5	1.5	1.0	1.3
HC81-3924	1.4	1.3	1.4	1.0	1.0
HC81-4121	1.5	1.3	1.4	1.0	1.0
HC82-1363	1.6	1.3	1.3	1.0	1.0
HC82-1386	2.1	1.6	1.6	2.0	1.5
HC82-9680	1.4	1.3	1.4	1.0	1.0

PRELIMINARY TEST IIB, 1985

LODGING (Score)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
2.0	1.0	2.0	1.2	1.5	2.8
2.0	1.5	3.0	1.3	2.0	3.3
2.0	1.0	3.5	1.4	2.0	3.3
2.0	1.2	2.5	1.1	1.5	2.8
2.0	1.2	3.0	1.2	1.0	2.8
1.5	1.0	2.0	1.3	1.5	2.5
2.0	1.0	3.0	1.4	1.5	3.0
3.0	1.5	4.0	1.4	2.5	3.5
4.0	2.8	4.5	2.3	3.0	3.5
1.5	1.0	4.0	1.3	1.5	3.0
2.0	1.5	2.5	1.4	2.0	3.5
1.0	1.0	1.0	1.2	1.0	2.5
3.0	1.0	4.5	1.5	2.5	4.8
2.5	1.8	3.0	1.5	2.0	3.3
2.0	2.0	4.0	1.5	2.5	3.3
2.5	1.2	3.0	1.3	2.0	3.0
1.5	1.0	3.0	1.3	1.5	2.5
2.5	1.0	3.0	1.3	2.0	3.5
2.5	1.0	3.0	1.3	2.0	3.5
1.0	1.0	2.0	1.1	1.0	2.8
1.5	1.0	1.5	1.2	1.5	2.0
1.0	1.0	2.0	1.3	1.0	3.3
1.0	1.3	2.0	1.2	1.5	2.5
1.0	1.0	2.0	1.2	1.5	2.0
1.0	1.0	2.5	1.2	1.0	2.5
1.5	1.0	3.0	1.2	2.0	2.3
2.0	1.3	3.0	1.6	2.0	2.8
1.0	1.0	2.0	1.2	1.0	1.8
2.0	1.0	3.5	1.3	1.5	2.8
1.0	1.3	1.5	1.1	2.0	2.8
2.0	1.0	3.5	1.4	2.0	2.5
1.0	1.3	2.5	1.2	1.0	2.3
1.0	1.3	2.5	1.2	2.0	2.5
1.5	1.0	3.0	1.2	2.0	2.8
2.5	1.8	3.0	1.5	2.5	3.3
1.5	1.0	3.0	1.2	1.0	2.0

PRELIMINARY TEST IIB, 1985

PLANT HEIGHT (Inches)

Strain	Mean 10 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Century 84	35	37	34	41	36
Elgin (II)	31	32	29	35	29
Zane (III)	36	36	35	39	36
A80-149020 (I)	33	32	32	37	32
C1663	35	32	32	39	36
C1664	32	30	30	36	31
C1679	38	40	33	40	38
E82046	33	33	34	34	34
E83015	41	36	40	44	42
E83053	31	28	29	35	28
E83064	46	48	44	54	45
E83065	27	24	27	25	23
HM8425	33	32	32	38	32
HM8426	39	40	37	42	35
HM8430	38	41	38	41	37
HM8476	32	34	30	29	32
Gnome 85	24	22	25	22	21
C1674	27	28	26	25	27
C1676	27	27	25	25	27
C1678	24	24	21	22	24
C1686	29	28	30	29	30
C1688	28	28	26	28	28
HC80-1742	24	23	24	24	24
HC80-1941	23	20	22	23	24
HC80-1943	26	26	24	25	29
HC80-2030	23	24	25	22	21
HC81-1586	25	26	28	22	24
HC81-1805	22	22	24	20	21
HC81-072	29	31	30	27	29
HC81-2268	25	25	26	24	23
HC81-2792	27	30	29	30	25
HC81-3924	24	23	24	22	24
HC81-4121	26	28	26	25	24
HC82-1363	24	24	23	21	24
HC82-1386	32	32	30	31	31
HC82-9680	22	22	22	20	23

PRELIMINARY TEST IIB, 1985

PLANT HEIGHT (Inches)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
35	36	32	29	38	35
32	34	29	28	33	32
38	29	31	30	39	34
30	36	31	27	38	33
34	35	35	31	38	37
31	34	34	27	37	31
36	43	38	31	41	39
33	35	32	28	37	33
38	45	42	38	41	41
29	27	31	26	39	31
43	50	42	41	47	43
25	29	28	25	33	26
33	35	30	30	33	32
40	44	38	33	41	40
37	45	32	34	40	37
34	32	30	28	40	29
21	26	22	23	25	24
30	29	20	25	32	27
27	30	22	24	31	30
23	28	24	22	27	26
32	30	26	27	31	29
32	31	28	26	30	27
21	27	24	22	28	24
22	27	20	23	27	23
25	28	22	25	31	24
23	25	18	20	27	23
24	28	22	26	28	25
21	24	22	22	25	23
29	30	26	23	29	28
25	27	26	19	27	24
27	29	25	26	28	23
22	27	22	21	26	24
25	29	24	24	30	23
25	28	22	25	25	27
33	36	32	29	36	31
24	25	19	20	25	22

PRELIMINARY TEST IIB, 1985

SEED QUALITY (Score)

Strain	Mean 8 Tests	Ames IA	Marshalltown 1A	Urbana IL	Lafayette IN
Century 84	1.9	1.9		1.9	1.5
Elgin (II)	2.1	1.7		1.7	2.0
Zane (III)	2.0	2.3		1.8	2.0
A80-149020 (I)	2.1	1.9		1.9	2.0
C1663	2.3	2.8		2.0	2.5
C1664	2.1	2.1		2.0	2.0
C1679	2.1	2.5		1.8	2.0
E82046	2.1	2.4		2.0	2.0
E83015	2.1	1.8		2.0	2.0
E83053	2.0	1.8		1.7	1.5
E83064	2.3	1.8		1.3	2.0
E83065	2.0	1.9		1.1	1.5
HM8425	2.2	2.8		1.5	2.0
HM8426	2.5	2.2		1.7	2.0
HM8430	2.3	2.5		1.3	2.5
HM8476	1.8	1.6		1.7	1.5
Gnome 85	1.9	1.8		1.3	1.0
C1674	2.0	1.8		1.3	2.0
C1676	2.0	1.6		1.3	2.0
C1678	1.5	1.6		1.3	1.5
C1686	2.1	2.7		1.1	2.0
C1688	1.9	1.8		1.5	2.0
HC80-1742	1.8	1.6		1.3	2.0
HC80-1941	2.0	1.5		1.5	2.0
HC80-1943	1.8	1.4		1.5	1.5
HC80-2030	1.9	1.7		1.1	1.5
HC81-1586	1.8	1.6		1.3	1.5
HC81-1805	2.0	2.2		1.2	1.5
HC81-2072	2.1	1.7		1.3	2.0
HC81-2268	1.9	2.0		1.1	1.5
HC81-2792	2.0	1.8		1.1	1.5
HC81-3924	1.8	1.7		1.1	1.5
HC81-4121	2.0	1.7		1.1	1.0
HC82-1363	1.7	1.4		1.1	1.5
HC82-1386	1.7	1.5		1.1	1.5
HC82-9680	1.8	1.6		1.1	1.5

PRELIMINARY TEST IIB, 1985

SEED QUALITY (Score)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
	1.0	2.0	1.3	2.0	3.5
	1.2	2.0	1.5	3.0	4.0
	1.5	2.0	1.6	2.0	3.0
	1.5	2.5	2.2	2.0	2.5
	1.5	2.5	2.1	2.0	3.0
	1.0	2.0	1.9	2.0	3.5
	1.2	3.0	1.5	2.0	3.0
	1.5	2.5	1.2	2.0	3.0
	1.0	2.0	1.4	3.0	3.5
	1.5	2.5	1.1	2.0	3.5
	1.5	1.5	1.1	5.0	4.0
	1.0	1.5	1.1	4.0	4.0
	1.0	2.0	1.1	4.0	3.5
	1.5	2.5	1.2	5.0	4.0
	1.0	3.0	1.2	3.0	4.0
	1.0	2.0	1.2	3.0	2.5
	1.0	1.5	1.2	3.0	4.0
	1.0	2.0	1.6	3.0	3.5
	1.0	3.0	1.2	3.0	3.0
	1.0	1.5	1.4	2.0	2.0
	1.0	2.0	1.2	3.0	3.5
	1.0	2.5	1.2	3.0	2.5
	1.0	3.0	1.2	2.0	2.5
	1.0	2.0	1.2	3.0	3.5
	1.0	1.5	1.3	3.0	3.0
	1.0	2.0	1.2	3.0	3.5
	1.0	2.0	1.2	3.0	3.0
	1.0	1.5	1.3	4.0	3.0
	1.3	2.0	1.3	4.0	3.5
	1.0	2.0	1.4	3.0	3.0
	1.0	2.5	1.1	3.0	4.0
	1.0	2.0	1.2	3.0	3.0
	1.0	2.0	1.3	3.0	4.5
	1.0	1.5	1.2	3.0	3.0
	1.0	1.5	1.1	3.0	3.0
	1.0	2.0	1.1	3.0	3.0

PRELIMINARY TEST IIB, 1985

SEED SIZE (g/100)

Strain	Mean 9 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Century 84	19.3	18.3		19.9	20.3
Elgin (II)	18.0	16.2		19.9	17.6
Zane (III)	21.2	18.6		23.4	21.0
A80-149020 (I)	18.0	15.6		19.1	20.0
C1663	19.8	18.4		20.8	21.6
C1664	15.2	13.5		16.2	16.8
C1679	18.0	15.8		20.3	19.4
E82046	19.5	18.1		20.8	19.8
E83015	17.1	16.4		18.5	18.7
E83053	20.2	18.3		23.0	21.8
E83064	17.0	16.0		17.9	18.3
E83065	15.9	15.3		15.7	17.7
HM8425	18.0	16.3		19.4	19.5
HM8426	16.6	15.3		18.3	16.9
HM8430	15.6	14.6		17.0	16.5
HM8476	16.6	16.3		17.9	17.1
Gnome 85	16.9	15.7		18.3	17.3
C1674	16.9	16.0		18.1	17.8
C1676	15.8	13.6		16.7	18.0
C1678	16.6	16.0		17.9	17.6
C1686	15.9	15.4		16.0	17.0
C1688	16.0	15.2		17.0	18.0
HC80-1742	17.9	16.1		18.6	17.8
HC80-1941	17.3	15.5		18.2	18.5
HC80-1943	18.0	16.2		19.0	18.9
HC80-2030	17.2	16.1		18.3	16.9
HC81-1586	17.9	16.4		18.3	18.2
HC81-1805	17.6	15.8		17.8	18.0
HC81-2072	16.9	15.6		18.0	17.5
HC81-2268	15.0	13.9		15.1	14.2
HC81-2792	16.1	15.4		16.3	16.8
HC81-3924	16.6	15.6		17.4	16.9
HC81-4121	17.3	15.3		19.0	18.2
HC82-1363	16.6	15.4		18.0	17.3
HC82-1386	19.5	18.2		21.0	18.6
HC82-9680	16.4	15.1		18.1	16.9

PRELIMINARY TEST IIB, 1985

SEED SIZE (g/100)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
21.6	18.7	19.0	18.6	21.3	15.7
19.9	17.5	18.5	16.1	20.0	16.5
22.5	19.8	21.5	18.2	20.6	15.5
18.6	19.0	17.5	16.8	19.1	16.0
20.6	19.9	19.0	18.1	22.3	17.6
16.3	14.1	16.0	15.5	15.9	12.6
18.6	17.7	18.5	16.9	19.3	15.2
20.1	19.3	19.5	18.5	22.1	17.1
16.5	16.5	17.0	14.9	20.7	14.9
21.1	21.8	18.0	19.1	21.9	16.5
18.9	17.6	18.0	16.6	15.6	14.5
17.0	14.4	16.0	16.6	16.3	13.8
20.2	17.8	17.0	16.4	19.5	16.2
18.5	16.3	17.5	15.2	17.3	14.5
16.4	16.2	17.0	13.9	16.7	12.3
17.9	16.7	16.0	16.5	16.2	14.5
18.5	16.7	17.5	16.4	18.0	14.1
17.7	17.0	17.0	16.2	18.2	14.3
17.2	16.3	16.0	14.9	16.4	13.5
17.8	16.3	16.0	16.2	17.4	13.8
17.6	16.0	16.5	15.3	16.2	13.4
16.6	16.5	17.0	16.0	15.1	13.0
20.8	19.0	17.5	17.2	18.2	15.8
20.4	18.0	16.0	16.7	18.7	14.1
20.4	18.0	18.0	16.5	18.7	16.4
19.0	16.9	19.0	16.4	17.4	15.1
18.7	18.7	19.0	16.5	19.2	15.8
20.6	18.2	18.0	17.6	17.5	15.1
17.6	17.1	19.0	15.9	16.4	14.6
17.3	15.8	15.0	13.8	16.4	13.3
17.1	14.7	18.0	15.2	17.5	14.1
18.1	17.0	18.0	16.3	16.0	13.8
18.4	16.5	19.0	16.2	19.1	13.8
17.8	16.4	17.5	15.2	17.3	14.2
20.9	20.3	20.0	18.1	18.7	16.7
17.6	15.9	17.0	15.5	16.4	14.7

PRELIMINARY TEST IIB, 1985

PROTEIN (%)

Strain	Mean 3 Tests	Ames IA	Urbana IL	Lafayette IN
Century 84	42.6	41.1	42.8	44.0
Elgin (II)	37.5	35.8	38.5	38.1
Zane (III)	39.5	37.1	39.5	42.0
A80-149020	38.3	34.5	40.1	40.4
C1663	39.8	37.8	40.6	41.1
C1664	38.2	35.2	39.1	40.3
C1679	38.5	36.6	38.6	40.3
E82046	37.8	35.6	38.3	39.6
E83015	38.3	36.6	38.7	39.5
E83053	41.3	38.0	42.8	43.1
E83064	40.4	39.4	40.1	41.8
E83065	38.7	36.7	38.5	41.0
HM8425	42.6	41.0	42.8	44.0
HM8426	42.0	40.9	42.1	43.0
HM8430	41.4	40.9	41.0	42.3
HM8476	42.0	39.9	42.1	44.0
Gnome 85	41.2	40.2	40.7	42.7
C1674	40.6	39.3	40.7	41.9
C1676	40.2	37.4	40.3	43.0
C1678	39.6	37.3	39.3	42.3
C1686	43.9	43.0	42.7	46.1
C1688	41.3	39.6	42.2	42.1
HC80-1742	41.5	39.8	41.6	43.2
HC80-1941	41.8	40.3	42.0	43.2
HC80-1943	41.9	40.3	42.5	42.8
HC80-2030	40.7	39.6	40.5	42.0
HC81-1586	39.8	39.7	38.7	41.1
HC81-1805	38.4	37.8	38.4	39.1
HC81-2072	40.5	39.7	40.5	41.2
HC81-2268	39.5	38.8	39.2	40.4
HC81-2792	38.3	37.5	37.5	39.8
HC81-3924	38.0	36.9	37.7	39.3
HC81-4121	39.1	38.6	38.1	40.5
HC82-1363	40.9	39.9	41.1	41.8
HC82-1386	41.3	40.1	41.0	42.8
HC82-9680	41.4	39.4	42.2	42.5

PRELIMINARY TEST IIB, 1985

OIL (%)

Mean 3 Tests	Ames IA	Urbana IL	Lafayette IN
20.3	21.2	19.8	19.8
22.4	22.7	22.2	22.4
22.6	23.7	22.3	21.7
21.8	23.6	20.3	21.5
21.4	22.5	20.6	21.2
22.1	23.5	21.4	21.4
22.4	23.4	21.8	21.9
22.3	23.0	21.9	21.9
22.4	22.8	22.2	22.2
21.0	22.4	20.0	20.6
22.3	22.6	22.4	21.8
22.5	23.4	22.3	21.7
20.9	21.5	20.4	20.9
20.5	20.2	20.7	20.5
20.6	20.0	21.4	20.3
19.9	20.9	19.4	19.3
21.0	21.2	21.1	20.6
21.3	21.8	21.1	21.1
21.2	22.3	20.9	20.4
21.9	21.9	22.2	21.5
20.0	19.6	21.3	19.1
20.3	20.9	19.4	20.5
20.3	20.8	20.2	20.0
20.6	20.6	20.8	20.3
20.8	21.0	20.5	20.9
21.3	21.1	21.9	20.8
22.5	22.0	23.1	22.5
22.2	22.9	21.7	22.1
22.6	22.8	22.6	22.4
21.6	21.6	21.8	21.3
22.7	22.8	22.8	22.4
22.6	22.4	23.3	22.2
22.5	22.3	23.2	22.1
21.5	21.8	21.3	21.4
21.3	21.4	21.7	20.8
20.9	21.0	20.6	21.2

UNIFORM TEST III, 1985

Strain	Parentage	Previous Testing*	Generation Composited
Century 84 (II)	Century^{5} x Williams 82	-	BC_4F_4
Fayette	Williams^{2} x PI88.788	4	F_4
Harper (III)	Unknown	4	F_4
Harper BC	Harper^{6} x Williams 82	-	BC_5F_2
Hobbit	Williams x Ransom	7	F_5
Pella	L66L-137 x Calland	9	F_4
AHW-Pella BC	Pella^{5} x Williams 82	-	BC_4F_3
Sparks (IV)	Williams x Calland	2	F_6
Williams 82	Williams^{7} x Kingwa	5	$4BC_6F_3$
Zane	Cumberland x Pella	3	F_5
A82-365028	Asgrow A3585 x Tri-Valley Charger	1	F_4
A83-274011	Asgrow A3127 x Tri-Valley Charger	PT IIA	F_4
A83-372027	Mershman Washington V x Asgrow A3127	PT IIIA	F_4
C1631	Hodgson x Cumberland	1	F_5
C1647	L69U40-16-4 x Cumberland	PT IIIB	F_5
C1655	Hobbit x Century	PT IIIB	F_6
HC74-634RE	Williams x Ransom	2	F_8
HC80-585	HC74-3400 x Sprite	PT IIIB	F_5
HC81-2104	HC74-678 x Sprite	PT IIIB	F_5
HW8371	HW79149 x Williams 79	PT IIIB	F_6
L80-4323	Williams^{2} x PI88.788	2	F_6
LN80-6797	A76-202015 x Land o'Lakes Max	PT IIIA	F_4
LN80-8478	A76-304020 x Land o'Lakes Max	1	F_4
LN80-16017	Tracy x Williams	PT IVA	F_4
U80-64032	(Calland x Corsoy) x Nebsoy	PT IIIB	F_4
U80-65127	[Wayne (Rps_1) x Amsoy 71] x Hodgson	PT IIB	F_4
U80-70070	Bonus x [Wayne x (Clark x Adams)]	PT IIIB	F_5

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

UNIFORM TEST III, 1985

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score		Emergence Score	Scattering Score			BSR	DM	PM
			Ames	Lamberton	Ames	Eldorado 9/19	Eldorado 10/4	Manhattan	Urbana		
									---Score---		
Century 84 (II)	PTSBYBl	I	2.8	2.5	3	2.5	4.7	1.0	3.0	2.5	1.0
Fayette	WTTSYBl	I	2.8	3.0	5	1.0	2.3	2.0	1.0	1.0	1.0
Harper (III)	PTBSYBl	I	3.5	3.0	5	1.0	2.7	1.0	1.0	2.0	1.0
Harper BC	PTBSYBl	I	4.0	1.5	2	1.0	2.5	1.0	2.0	2.5	1.0
Hobbit	WTTSYBl	D	3.5	3.5	4	1.0	1.7	1.0	2.0	1.0	1.0
Pella	PTTSYBl	I	4.0	3.0	3	1.0	2.5	1.0	3.0	2.0	1.0
AHW-Pella BC	PTTSYBl	I	3.8	2.0	1	1.0	2.8	1.0	1.5	2.5	1.0
Sparks (IV)	WTTSYBl	I	2.8	1.5	5	1.0	3.5	1.0	1.5	2.0	1.0
Williams 82	WTTSYBl	I	2.8	2.5	5	1.0	1.2	1.0	1.0	2.5	1.0
Zane	PGBDYBf	I	2.8	2.5	5	1.0	3.5	1.0	1.0	2.0	4.0
A82-365028	PTTSYBr	I	4.3	3.5	2	1.0	4.3	2.0	1.0	2.5	1.0
A83-274011	PTTDYIb+Bf	I	4.3	4.5	2	3.0	5.0	1.0	2.0	1.0	1.0
A83-372027	PTTDYBl	I	4.3	5.0	1	1.0	1.7	1.0	1.0	1.5	1.0
C1631	PGBDYBf	I	2.5	2.5	5	1.0	2.8	1.0	2.0	2.0	4.0
C1647	PTTDYBl+Gr	I	3.7	1.5	4	1.0	3.0	3.0	1.5	2.0	1.0
C1655	PTBSYBl	D	3.3	2.0	5	1.0	1.2	1.0	1.0	2.0	1.0
HC74-634RE	WTTDYBl	D	3.7	2.0	2	1.0	1.7	1.0	1.0	1.0	1.0
HC80-585	WTTSYBl	D	3.5	2.0	2	1.0	2.3	1.0	1.5	1.0	1.0
HC81-2104	WTTDYY	D	2.8	2.0	3	1.0	1.3	1.0	1.5	1.0	1.0
HW8371	WGBSYBl	I	3.7	2.5	4	1.0	1.8	3.0	1.5	2.5	4.0
L80-4323	WTTSYBl	I	3.5	2.5	2	1.0	3.8	1.0	1.0	1.0	1.0
LN80-6797	PTBDYBl	I	3.2	2.5	1	1.0	2.3	1.0	1.0	2.0	1.0
LN80-8478	PTBSYBl	I	3.3	1.5	2	1.0	3.3	1.0	1.0	1.0	1.0
LN80-16017	WTTDYBl	I	4.2	2.5	2	1.0	2.3	2.0	1.0	1.0	1.0
U80-64032	WGBSYBf	I	4.0	3.5	1	1.0	4.8	1.0	1.5	2.0	4.0
U80-65127	PGBSYBf	I	2.5	1.5	5	1.0	2.5	1.0	2.0	2.0	4.0
U80-70070	PGTIYIb	I	3.3	2.0	5	1.0	2.0	1.0	3.0	2.5	1.0

UNIFORM TEST III, 1985

DISEASE DATA

Strain	BSR		BTS	PR			PS	PSB	SMV	Germ
	Ames									
	Plant	Stem	Ames	Ames	Lafayette	Vickery	Lafayette			
	N %	N %	a Score	Race4 - Reaction -	Race1	Tolerance Score	a %	n %	a Score	%
Century 84 (II)	100	73.4	3	R	R	2.9	40	16	4E	80
Fayette	80	41.0	4	S	H	2.3	18	6	5M	90
Harper (III)	90	50.4	3	S	S	3.0	13	2	5E	90
Harper BC	80	34.5	3	H	R	3.1	15	4	5E	92
Hobbit	70	44.1	2	S	S	3.1	14	0	2M	94
Pella	90	61.0	4	S	R	3.0	46	6	5E	90
AHW-Pella BC	90	55.3	4	R	R	2.6	48	14	5E	74
Sparks (IV)	80	31.8	3	S	R	2.5	30	20	5E	82
Williams 82	90	54.3	3	R	R	2.1	19	10	4E	84
Zane	70	30.8	3	S	H	2.9	54	10	4E	86
A82-365028	90	45.7	4	S	S	2.8	23	6	5E	90
A83-274011	100	54.5	3	S	S	2.9	46	0	4E	96
A83-372027	60	25.6	2	S	H	2.6	23	9	5E	86
C1631	100	42.9	3	S	S	2.6	39	18	5E	74
C1647	90	40.8	3	S	R	3.0	41	10	5E	86
C1655	90	36.4	2	S	S	2.8	14	2	5E	94
HC74-634RE	70	39.8	2	S	S	3.0	20	2	1	90
HC80-585	60	29.8	2	S	S	2.9	31	2	1	94
HC81-2104	30	19.2	3	S	S	2.9	19	4	2M	88
HW8371	20	8.8	3	S	S	2.8	55	4	5E	94
L80-4323	80	28.0	4	S	S	2.9	33	4	4E	94
LN80-6797	70	17.8	4	S	S	2.9	30	4	5E	86
LN80-8478	60	19.5	3	S	R	2.8	80	2	5E	86
LN80-16017	80	34.8	4	R	R	3.0	12	0	5E	82
U80-64032	60	28.0	3	S	H	3.0	77	6	3M	86
U80-65127	90	43.3	3	S	R	2.9	29	16	1	82
U80-70070	60	25.4	4	S	R	2.9	41	6	5E	86

UNIFORM TEST III, 1985

1984-1985 2-YEAR MEAN

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	41	41	40	43	43	39	38	10	10
	bu/a	No.	Date	Score	In	Score	g/100	%	%
Fayette	44.6	11	+4.9	2.0	40	1.9	16.0	41.8	21.2
Harper (III)	46.6	4	9-22.4*	1.3	32	1.9	19.3	40.8	21.7
Hobbit	45.0	9	-0.2	1.2	22	1.6	16.2	39.2	22.9
Pella	45.0	9	-2.8	1.6	35	2.1	19.2	39.7	22.2
Sparks (IV)	44.0	12	+7.0	2.2	40	2.1	16.9	39.3	21.3
Williams 82	46.4	6	+5.0	1.8	38	1.8	17.0	41.3	22.0
Zane	46.8	3	-4.4	1.4	34	2.1	19.7	39.8	23.0
A82-365028	47.4	2	+3.4	1.8	38	1.9	16.6	39.4	22.6
C1631	46.6	4	+1.1	1.9	37	1.8	18.8	41.0	21.0
HC74-634RE	46.2	7	+2.6	1.3	23	1.5	19.2	42.3	21.4
L80-4323	45.6	8	0.0	1.5	35	1.8	16.6	41.9	21.4
LN80-8478	48.0	1	+3.2	2.0	37	2.0	18.1	41.5	20.7

* 127 Days After Planting

1983-1985 3-YEAR MEAN

No. of Tests	63	63	59	65	65	61	59	15	15
Fayette	41.8	9	+4.0	2.0	39	2.0	15.6	41.8	21.3
Harper (III)	44.5	2	9-22.6*	1.2	32	2.0	18.9	40.8	21.8
Hobbit	42.4	8	-0.2	1.2	21	1.8	15.5	38.8	23.1
Pella	43.0	6	-2.6	1.4	35	2.2	18.5	39.4	22.4
Sparks (IV)	42.5	7	+6.2	2.3	40	2.3	16.4	39.6	21.5
Williams 82	43.9	4	+4.2	1.6	38	1.9	16.4	41.2	21.8
Zane	44.6	1	-3.8	1.4	33	2.3	19.0	40.0	23.0
HC74-634RE	44.3	3	+1.8	1.3	23	1.7	18.3	42.1	22.3
L80-4323	43.4	5	-0.2	1.4	34	1.9	16.1	41.8	21.5

* 125 Days After Planting

Two strains in this test, LN80-8478 and A82-365028 had higher 2-year mean yields than the cheek varieties. Of these, LN80-8478 appears to be more resistant to chlorosis and to phytophthora than does A82-365028. The backcross derivatives of Harper and Pella appear to be at least as good as the original varieties in all characteristics.

UNIFORM TEST III, 1985

Regional Summary

Strain No. of Tests	Yield 21 bu/a	Rank 21 No.	Maturity 20 Date	Lodging 21 Score	Plant Height 21 In	Seed Quality 20 Score	Seed Size 20 g/100	Composition Protein 5 %	Composition Oil 5 %
Century 84 (II)	44.4	26	-4.4	1.4	32	2.1	18.8	44.1	20.3
Fayette	44.6	25	+5.0	1.9	38	2.0	16.9	42.7	21.2
Harper (III)	47.8	9	9-23.6*	1.3	31	1.9	19.8	41.7	21.7
Harper BC	48.5	4	+0.3	1.3	31	1.7	19.7	41.4	21.7
Hobbit	47.5	10	+1.4	1.2	22	1.6	17.2	39.6	23.0
Pella	46.5	18	-1.9	1.5	34	2.1	20.2	40.3	22.0
AHW-Pella BC	47.3	12	-2.7	1.4	32	2.0	20.5	39.7	22.6
Sparks (IV)	45.4	22	+6.9	2.2	40	2.2	17.6	40.4	20.9
Williams 82	46.4	19	+5.7	1.7	37	1.8	17.6	41.9	21.5
Zane	47.4	11	-3.2	1.4	33	2.0	20.1	39.9	23.3
A82-365028	48.2	5	+4.5	1.8	37	1.9	17.2	40.2	22.5
A83-274011	47.9	8	-2.9	1.5	34	1.8	17.1	40.6	21.6
A83-372027	49.7	2	+3.8	1.8	37	1.9	15.8	40.5	22.3
C1631	46.9	13	+1.8	1.9	36	1.7	19.3	41.9	20.6
C1647	46.9	13	0.0	1.4	34	2.6	21.9	39.0	21.8
C1655	46.7	15	+4.3	1.4	32	2.0	18.3	41.5	21.9
HC74-634RE	48.0	6	+2.9	1.4	24	1.5	20.1	42.8	21.5
HC80-585	50.0	1	+2.7	1.3	24	1.7	19.9	40.0	23.8
HC81-2104	46.7	15	+1.0	1.3	24	1.6	15.1	41.3	21.1
HW8371	46.7	15	+3.3	1.7	36	2.0	17.4	43.0	20.8
L80-4323	45.9	21	+0.9	1.4	34	1.8	17.6	42.7	21.3
LN80-6797	48.0	6	+0.2	2.2	33	2.1	16.8	41.6	21.4
LN80-8478	49.5	3	+4.1	1.9	36	2.0	19.1	42.8	20.4
LN80-16017	46.0	20	+3.0	1.6	33	1.9	20.3	43.6	19.8
U80-64032	45.1	23	-0.3	1.4	31	2.6	18.1	40.5	20.7
U80-65127	44.9	24	-2.0	2.1	36	1.8	16.7	41.6	21.9
U80-70070	44.4	26	+1.6	1.5	36	2.3	17.8	40.6	22.4

* 131 Days After Planting

Average date planted May 16.

UNIFORM TEST III, 1985

YIELD (bu/a)

Strain	Mean 21 Tests	Ottumwa IA	Stuart IA	Eldorado IL	Urbana IL	Bluff-ton IN	Lafayette IN
Century 84 (II)	44.4	48.1	44.5	29.7	67.7	37.9	48.6
Fayette	44.6	45.3	35.8	38.6	65.1	40.9	54.3
Harper (III)	47.8	51.5	48.4	32.9	73.0	36.4	55.6
Harper BC	48.5	53.2	47.4	38.6	73.9	34.7	54.0
Hobbit	47.5	58.2	49.4	21.5	71.4	29.9	51.6
Pella	46.5	47.3	47.2	28.0	72.4	40.3	50.2
AHW-Pella BC	47.3	47.4	47.6	29.0	75.7	43.8	50.2
Sparks (IV)	45.4	49.6	41.3	30.0	63.2	43.9	52.5
Williams 82	46.4	44.8	34.5	48.1	67.7	44.8	55.7
Zane	47.4	52.6	51.1	26.3	80.0	37.4	50.9
A82-365028	48.2	51.8	45.2	34.7	71.1	39.3	59.8
A83-274011	47.9	54.4	49.8	25.4	77.7	40.0	57.6
A83-372027	49.7	55.9	44.7	30.7	74.7	41.0	61.2
C1631	46.9	53.6	45.9	29.4	68.0	43.3	52.9
C1647	46.9	48.8	46.7	34.2	70.4	34.8	48.5
C1655	46.7	54.8	45.1	39.6	70.8	36.5	52.9
HC74-634RE	48.0	59.5	48.3	26.0	69.0	31.9	57.7
HC80-585	50.0	57.2	49.2	27.2	72.3	37.5	60.0
HC81-2104	46.7	56.5	48.1	23.9	70.4	28.3	55.8
HW8371	46.7	43.8	43.6	39.2	72.9	36.6	55.1
L80-4323	45.9	51.3	45.1	36.1	69.1	30.2	51.3
LN80-6797	48.0	52.4	47.1	39.5	72.7	41.2	52.3
LN80-8478	49.5	55.0	49.7	42.7	69.4	41.6	57.6
LN80-16017	46.0	51.1	41.4	39.8	67.0	39.9	56.5
U80-64032	45.1	52.5	53.5	31.2	71.5	31.4	50.3
U80-65127	44.9	46.4	44.3	34.7	60.2	33.5	53.1
U80-70070	44.4	44.1	40.4	28.1	63.7	39.8	52.3
C.V. (%)		5.1	6.3	20.7	4.5	12.6	7.5
L.S.D. (5%)		3.7	4.1	11.1	5.2	6.3	5.4
Row Sp. (In.)		27	27	30	30	15	24
Rows/Plot		4	4	4	4	5	4
Reps		4	4	3	3	3	3

UNIFORM TEST III, 1985

YIELD (bu/a)

Strain	Sullivan IN	Man-hattan KS	Topeka KS	Lexing-ton KY	Queens-town MD	Columbia MO	Mead NE
Century 84 (II)	37.6	43.3	40.2	48.4	42.0	50.2	49.9
Fayette	43.4	35.2	39.5	44.0	49.0	39.5	39.2
Harper (III)	45.0	46.4	43.8	47.9	50.8	47.2	50.1
Harper BC	43.0	41.8	46.3	47.5	52.9	52.7	48.1
Hobbit	46.0	33.2	48.7	56.7	50.8	49.9	49.8
Pella	42.3	39.5	31.1	54.6	52.7	54.9	46.7
AHW-Pella BC	38.8	40.7	40.2	50.8	51.2	49.9	47.2
Sparks (IV)	40.9	39.4	36.1	50.2	56.2	53.5	37.1
Williams 82	45.9	43.6	37.3	47.2	50.2	54.3	38.8
Zane	40.7	43.1	40.1	55.7	53.0	48.9	46.1
A82-365028	43.2	44.8	41.2	49.1	53.8	56.5	46.6
A83-274011	46.0	44.0	39.2	51.7	45.2	52.0	50.3
A83-372027	46.9	50.1	46.5	49.5	51.3	58.5	45.2
C1631	41.8	39.7	38.7	51.9	54.5	49.3	43.0
C1647	41.2	35.1	34.9	51.4	56.2	47.6	47.2
C1655	36.7	42.1	45.9	48.0	55.4	55.4	49.4
HC74-634RE	42.6	43.1	46.4	59.7	56.2	51.0	53.0
HC80-585	47.1	38.3	49.7	58.0	58.1	56.8	54.2
HC81-2104	45.9	35.4	44.5	50.8	53.0	49.6	51.9
HW8371	45.1	44.9	43.7	49.7	53.1	50.5	38.5
L80-4323	46.8	41.5	40.1	46.8	49.1	-	43.8
LN80-6797	48.7	43.2	36.6	50.0	46.6	56.7	46.3
LN80-8478	47.3	43.8	44.1	48.2	51.5	58.3	46.6
LN80-16017	43.0	40.3	41.1	42.4	49.7	52.7	45.2
U80-64032	40.3	44.2	49.7	53.9	47.2	42.5	50.3
U80-65127	40.9	41.6	42.4	48.2	49.5	41.3	46.0
U80-70070	40.3	40.1	39.4	48.1	53.3	48.8	46.4
C.V. (%)	7.5	7.1	10.8	5.8	6.4	7.6	-
L.S.D. (5%)	4.4	4.9	7.5	3.1	5.4	6.4	-
Row Sp. (In.)	15	30	30	30	30	30	30
Rows/Plot	5	4	4	4	4	4	4
Reps	3	3	3	3	3	3	3

UNIFORM TEST III, 1985

YIELD (bu/a)

Adelphia NJ	Hoytville OH	Ripley OH	S. Charleston OH	Wooster OH	Woodslee ONT	Landisville PA	Elk Point SD
42.9	51.8	34.7	56.0	21.9	52.9	53.1	32.1
51.0	49.5	48.0	56.2	25.5	51.6	63.2	22.7
49.5	47.5	44.7	63.9	28.5	54.9	56.6	29.2
44.3	52.7	44.4	61.0	30.7	57.0	61.1	32.5
45.0	50.3	43.5	60.4	27.6	59.0	65.1	30.4
45.7	49.6	41.1	64.3	30.4	55.7	57.1	25.6
45.5	54.1	39.9	60.0	32.3	59.9	60.0	30.1
42.3	55.8	44.2	57.8	24.1	48.1	65.6	22.2
40.7	53.2	42.8	62.3	21.7	50.3	58.2	31.8
44.4	52.2	45.6	57.2	27.9	58.3	56.1	27.8
44.9	49.2	41.5	65.7	28.5	52.0	61.1	32.1
41.2	55.8	39.5	58.9	31.9	59.0	56.6	30.2
41.9	57.6	46.4	66.3	28.5	60.6	63.7	23.4
42.8	44.8	42.0	61.0	35.1	55.7	66.0	25.6
43.1	50.6	43.2	63.8	39.4	58.7	60.5	28.2
43.8	51.7	37.5	57.6	20.6	52.4	58.0	25.7
47.0	50.6	43.2	55.8	25.9	55.9	60.9	25.2
46.7	54.5	43.4	61.5	27.4	55.1	70.5	25.2
45.3	52.0	40.4	56.6	25.8	53.0	64.2	29.8
44.2	48.3	40.3	60.4	28.0	52.5	63.3	26.7
50.7	49.7	43.4	61.2	22.0	53.3	58.9	27.4
41.5	52.2	41.9	62.6	37.6	52.4	55.8	29.7
51.8	50.6	43.0	61.5	34.1	55.2	55.0	32.4
40.8	52.0	39.6	58.7	34.5	50.5	52.9	26.9
40.6	42.8	31.4	55.2	22.5	58.5	46.1	30.9
46.8	48.9	42.8	59.5	23.7	52.7	56.7	30.3
43.5	52.8	40.9	56.9	20.3	50.7	51.1	31.1
7.6	9.6	-	-	22.7	7.0	11.0	20.7
6.8	N.S.	-	-	10.4	5.4	N.S.	N.S.
30	30	30	30	30	30	24	30
4	4	4	4	4	4	4	4
3	3	3	3	3	4	2	3

UNIFORM TEST III, 1985

YIELD RANK

Strain	Yield Rank	Ottumwa IA	Stuart IA	Eldorado IL	Urbana IL	Bluff-ton IN	Lafayette IN
Century 84 (II)	26	20	20	17	21	14	26
Fayette	25	24	26	7	24	8	12
Harper (III)	9	15	7	13	6	19	16
Harper BC	4	10	11	7	5	21	13
Hobbit	10	2	5	27	12	26	20
Pella	18	22	12	21	9	9	24
AHW-Pella BC	12	21	10	18	3	3	24
Sparks (IV)	22	18	24	16	26	2	17
Williams 82	19	25	27	1	21	1	9
Zane	11	11	2	23	1	16	22
A82-365028	5	14	16	10	13	13	3
A83-274011	8	8	3	25	2	10	5
A83-372027	2	5	19	15	4	7	1
C1631	13	9	15	18	20	4	15
C1647	13	19	14	12	15	20	27
C1655	15	7	17	4	14	18	15
HC74-634RE	16	1	8	24	19	23	4
HC80-585	1	3	6	22	10	15	2
HC81-2104	15	4	9	26	15	27	8
HW8371	15	27	22	6	7	17	11
L80-4323	21	16	17	9	18	25	21
LN80-6797	6	13	13	5	8	6	18
LN80-8478	3	6	4	2	17	5	5
LN80-16017	20	17	23	3	23	11	7
U80-64032	23	12	1	14	11	24	23
U80-65127	24	23	21	10	27	22	14
U80-70070	26	26	25	20	25	12	18

UNIFORM TEST III, 1985

YIELD RANK

Sullivan IN	Manhattan KS	Topeka KS	Lexington KY	Queens-town MD	Columbia MO	Mead NE	Adelphia NJ
26	9	15	17	27	15	7	19
12	27	19	26	23	26	24	2
11	2	10	22	17	23	6	4
14	14	6	23	12	10	10	14
6	26	3	3	17	16	8	11
17	21	27	5	13	7	13	8
25	17	15	10	16	16	11	9
20	22	25	12	2	9	27	21
8	8	23	24	19	8	25	26
22	11	17	4	10	20	18	13
13	4	13	16	7	5	14	12
6	6	21	8	26	12	4	24
4	1	4	15	15	1	20	22
18	20	22	7	6	19	23	20
19	25	26	9	2	22	11	18
27	13	7	21	5	6	9	16
16	11	5	1	2	13	2	5
3	23	1	2	1	3	1	7
8	24	8	10	10	18	3	10
10	3	11	14	9	14	26	15
5	16	18	25	22	-	22	3
1	10	24	13	25	4	17	23
2	7	9	18	14	2	14	1
15	18	14	27	20	10	20	25
23	5	1	6	24	24	4	27
20	15	12	18	21	25	19	6
23	19	20	20	8	21	16	17

UNIFORM TEST III, 1985

YIELD RANK

Strain	Hoyt-ville OH	Ripley OH	S.Charles-ton OH	Wooster OH	Woodslee ONT	Landis-ville PA	Elk Point SD
Century 84 (II)	13	26	25	24	17	24	3
Fayette	21	2	24	19	23	8	26
Harper (III)	25	4	4	10	14	19	14
Harper BC	8	6	11	8	8	9	1
Hobbit	18	8	13	15	3	4	8
Pella	20	18	3	9	10	17	21
AHW-Pella BC	5	22	15	6	2	13	11
Sparks (IV)	2	7	19	20	27	3	27
Williams 82	6	14	7	25	26	15	5
Zane	9	3	21	14	7	21	16
A82-365028	22	5	2	10	22	9	3
A83-274011	2	24	17	7	3	19	10
A83-372027	1	1	1	10	1	6	25
C1631	26	16	11	3	10	2	21
C1647	15	11	5	1	5	12	15
C1655	14	25	20	26	20	16	20
HC74-634RE	15	11	26	17	9	11	23
HC80-585	4	9	8	16	13	1	23
HC81-2104	11	20	23	18	16	5	12
HW8371	24	21	13	13	19	7	19
L80-4323	19	9	10	23	15	14	17
LN80-6797	9	17	6	2	20	22	13
LN80-8478	15	13	8	5	12	23	2
LN80-16017	11	23	18	4	25	25	18
U80-64032	27	27	27	22	6	27	7
U80-65127	23	14	16	21	18	18	9
U80-70070	1	19	22	27	24	26	6

UNIFORM TEST III, 1985

MATURITY (Date)

Strain	Mean 20 Tests	Ottumwa IA	Stuart IA	Eldorado IL	Urbana IL	Bluff-ton IN	Lafayette IN
Century 84 (II)	-4.4		-8	-8	-5	-5	-9
Fayette	+5.0		+9	+7	+6	+4	+2
Harper (III)	9-23.6		9-22	9-6	9-18	9-25	9-21
Harper BC	+0.3		+1	+3	+1	-2	0
Hobbit	+1.4		+4	-5	+1	0	+1
Pella	-1.9		-4	-4	0	-3	-4
AHW-Pella BC	-2.7		-5	-4	-2	-2	-6
Sparks (IV)	+6.9		+10	+6	+5	+7	+5
Williams 82	+5.7		+9	+9	+3	+6	+2
Zane	-3.2		-5	-4	-2	-4	-2
A82-365028	+4.5		+8	+1	+5	+1	+1
A83-274011	-2.9		-3	-7	-1	-5	-5
A83-372027	+3.8		+6	+1	+5	-1	0
C1631	+1.8		+6	-2	+2	0	+1
C1647	0.0		-3	-2	+1	0	-1
C1655	+4.3		+6	0	+7	+5	+3
HC74-634RE	+2.9		+6	-3	+5	+1	+1
HC80-585	+2.7		+3	-4	+2	+2	+2
HC81-2104	+1.0		+4	-3	+1	0	-1
HW8371	+3.3		+6	+5	+2	-2	+1
L80-4323	+0.9		-1	+2	0	-1	+1
LN80-6797	+0.2		+2	+2	-1	-1	-2
LN80-8478	+4.1		+9	+4	+4	+3	+1
LN80-16017	+3.0		+6	+6	+5	0	0
U80-64032	-0.3		-1	-3	0	-4	-2
U80-65127	-2.0		-4	-4	-3	-4	-3
U80-70070	+1.6		+2	0	+3	-1	-1
Date Planted	5-16	5-8	5-6	5-8	5-7	5-23	5-7
Days to Mature	131	-	139	121	134	125	137

UNIFORM TEST III, 1985

MATURITY (Date)

Strain	Sullivan IN	Man-hattan KS	Topeka KS	Lexing-ton KY	Queens-town MD	Columbia MO	Mead NE
Century 84 (II)	+1	-3	-3	-6	-3	+4	-9
Fayette	+1	+8	+9	+1	+6	-6	+8
Harper (III)	9-24	9-19	9-18	9-23	9-21	9-14	9-27
Harper BC	0	0	+2	0	0	+1	-2
Hobbit	+1	+9	+4	0	-1	+4	-1
Pella	+1	-1	0	-1	-2	0	-6
AHW-Pella BC	+1	-1	-2	-2	-1	0	-8
Sparks (IV)	+1	+10	+10	+2	+8	+5	+7
Williams 82	+1	+10	+9	+1	+5	+5	+7
Zane	+2	-1	-2	-4	-3	-2	-8
A82-365028	+1	+11	+10	+1	+3	+1	+6
A83-274011	0	-1	-1	-4	-2	-4	-7
A83-372027	+1	+9	+6	+1	+2	+4	+5
C1631	+1	+4	+3	0	+3	+2	-2
C1647	+2	0	-1	-1	+1	0	-1
C1655	+2	+7	+9	0	+4	+4	+5
HC74-634RE	+1	+9	+8	0	+3	+4	+5
HC80-585	+2	+10	+4	0	+2	+5	+3
HC81-2104	+1	+7	+6	-2	+1	+3	-2
HW8371	+2	+8	+8	+2	+2	+3	+4
L80-4323	+1	+1	-1	-1	+1	-	+1
LN80-6797	+1	+2	0	0	-1	0	+2
LN80-8478	-1	+6	+7	+1	+2	+3	+5
LN80-16017	+1	+4	+4	+1	0	+1	+5
U80-64032	+2	+4	0	0	+4	-3	-3
U80-65127	+2	0	-1	-3	-2	-3	-6
U80-70070	+1	+2	+4	0	+1	0	+4
Date Planted	5-28	5-17	5-9	5-31	6-3	5-9	5-23
Days to Mature	119	125	132	115	110	128	127

UNIFORM TEST III, 1985

MATURITY (Date)

Adelphia NJ	Hoytville OH	Ripley OH	S. Charleston OH	Wooster OH	Woodslee ONT	Landisville PA	Elk Point SD
-2	-7	-1	-3	-2	-1	-10	-7
+8	+5	+6	+7	+8	+7	+2	+2
10-1	9-26	9-9	9-24	9-30	10-5	9-30	10-19
0	+1	0	-1	+1	-1	0	+1
+2	+4	+3	+3	+1	+3	-3	-2
0	-3	+1	+2	0	-3	-10	-1
0	-3	-2	-2	0	-3	-10	-1
+11	+6	+9	+8	+9	+7	+9	+2
+7	+5	+6	+6	+6	+7	+7	+2
-4	-6	0	-3	-2	-1	-10	-3
+7	+4	+8	+5	+7	+8	0	+2
+2	-2	-1	-1	-1	-3	-10	-1
+11	+3	+4	+5	+5	+5	+2	+1
+3	+1	+6	+2	+3	+3	+2	-2
+1	0	+2	+1	+1	+1	-1	0
+5	+4	+9	+5	+6	+5	0	0
+3	+5	+3	+3	+1	+5	-1	-2
+2	+5	+2	+3	+1	+3	+9	-3
0	+5	+3	+2	-2	+1	-2	-3
+5	+2	+5	+3	+3	+5	0	+1
+3	+1	+3	+1	+5	0	0	+1
0	-1	+2	-2	0	0	+2	-1
+8	+2	+7	+3	+6	+3	+7	+1
+7	+3	+2	+5	+4	+3	+2	0
-1	-4	+4	-1	+1	0	+2	-1
+1	-3	+4	-3	-2	-4	-3	+1
+3	0	+4	+1	+3	+3	+2	+1
5-31	5-9	5-7	5-7	5-13	5-8	5-21	5-23
123	140	125	140	140	150	132	148

UNIFORM TEST III, 1985

LODGING (Score)

Strain	Mean 21 Tests	Ottumwa IA	Stuart IA	Eldorado IL	Urbana IL	Bluff-ton IN	Lafayette IN
Century 84 (II)	1.4	1.7	1.8	1.0	1.0	1.0	1.0
Fayette	1.9	2.5	1.9	1.2	2.0	1.0	2.2
Harper (III)	1.3	1.8	1.6	1.0	1.3	1.0	1.0
Harper BC	1.3	1.7	1.8	1.0	1.3	1.0	1.0
Hobbit	1.2	1.5	1.8	1.0	1.0	1.0	1.0
Pella	1.5	1.9	1.9	1.0	1.7	1.0	1.0
AHW-Pella BC	1.4	1.7	1.7	1.0	1.0	1.0	1.0
Sparks (IV)	2.2	2.6	2.6	1.4	2.3	1.3	2.2
Williams 82	1.7	2.2	1.6	1.1	1.7	1.2	1.2
Zane	1.4	1.9	1.9	1.0	1.0	1.0	1.3
A82-365028	1.8	2.1	1.9	1.0	1.7	1.0	1.8
A83-274011	1.5	1.7	1.6	1.0	1.3	1.0	1.2
A83-372027	1.8	2.3	1.9	1.0	1.7	1.0	2.2
C1631	1.9	2.4	2.8	1.0	3.0	1.0	2.2
C1647	1.4	1.7	1.7	1.0	1.0	1.0	1.0
C1655	1.4	2.1	1.9	1.0	1.0	1.0	1.0
HC74-634RE	1.4	1.9	2.0	1.0	1.0	1.0	1.2
HC80-585	1.3	1.6	1.9	1.0	1.0	1.0	1.0
HC81-2104	1.3	1.7	1.8	1.0	1.0	1.0	1.2
HW8371	1.7	2.1	1.8	1.0	2.0	1.0	1.5
L80-4323	1.4	1.9	1.5	1.0	1.7	1.0	1.0
LN80-6797	2.2	2.6	2.5	1.0	2.7	1.2	2.8
LN80-8478	1.9	2.3	2.0	1.2	2.3	1.0	2.2
LN80-16017	1.6	2.0	1.8	1.0	1.0	1.0	1.5
U80-64032	1.4	1.8	1.8	1.0	1.3	1.0	1.0
U80-65127	2.1	2.4	2.5	1.0	3.0	1.0	2.0
U80-70070	1.5	2.1	2.0	1.0	2.0	1.0	1.0

UNIFORM TEST III, 1985

LODGING (Score)

Sullivan IN	Manhattan KS	Topeka KS	Lexington KY	Queens-town MD	Columbia MO	Mead NE	Adelphia NJ
1.0	1.0	2.0	1.2	2.7	1.3	1.0	1.3
1.2	1.3	2.0	2.5	2.8	1.0	1.8	2.0
1.0	1.0	2.0	1.3	2.3	1.0	1.0	1.0
1.0	1.0	1.7	1.5	2.2	1.0	1.0	1.3
1.0	1.0	1.0	1.0	2.2	1.0	1.0	1.0
1.0	1.0	2.0	1.7	2.3	1.0	1.0	1.7
1.0	1.3	2.0	1.3	2.2	1.0	1.0	1.3
1.3	2.3	2.0	3.0	3.3	2.0	1.7	2.7
1.0	1.8	2.0	2.2	2.3	1.0	1.3	2.0
1.0	1.0	2.0	1.3	2.0	1.0	1.0	2.0
1.0	1.5	2.0	2.0	2.8	1.0	1.7	2.3
1.0	1.0	1.7	1.8	2.2	1.0	1.0	1.3
1.3	2.0	2.0	2.0	2.7	1.2	1.5	2.0
1.0	1.8	2.0	2.7	1.8	1.2	1.8	2.3
1.0	1.0	1.7	1.0	2.3	1.0	1.0	1.7
1.0	1.0	2.0	1.3	1.8	1.0	1.0	2.0
1.0	1.0	1.0	2.3	2.2	1.0	1.0	1.7
1.0	1.0	1.0	2.0	1.5	1.0	1.0	1.0
1.0	1.0	1.0	1.8	1.3	1.0	1.0	1.3
1.0	1.5	2.0	2.8	2.5	1.2	1.2	2.0
1.0	1.2	2.0	1.5	1.7	-	1.0	1.7
1.0	2.0	3.0	2.7	3.2	1.2	2.3	2.3
1.3	1.5	2.7	2.8	2.8	1.3	2.0	1.7
1.0	1.0	1.7	1.5	3.5	1.2	1.0	2.0
1.0	1.0	1.7	1.3	1.8	1.0	1.3	1.7
1.2	2.2	3.0	2.5	2.8	1.7	2.2	2.0
1.0	1.5	2.0	1.5	1.8	1.0	1.3	2.0

UNIFORM TEST III, 1985

LODGING (Score)

Strain	Hoyt-ville OH	Ripley OH	S.Charles-ton OH	Wooster OH	Woodslee ONT	Landis-ville PA	Elk Point SD
Century 84 (II)	1.4	1.0	1.0	1.2	2.3	1.5	1.7
Fayette	1.8	1.2	1.7	1.4	3.0	2.0	2.7
Harper (III)	1.3	1.0	1.2	1.2	2.3	2.0	1.3
Harper BC	1.2	1.0	1.2	1.2	1.5	1.0	1.7
Hobbit	1.1	1.0	1.2	1.1	1.8	1.5	1.0
Pella	1.5	1.0	1.7	1.2	2.4	1.5	1.7
AHW-Pella BC	1.4	1.0	1.7	1.2	2.1	1.5	1.7
Sparks (IV)	2.2	1.3	2.5	1.6	3.6	2.5	2.0
Williams 82	1.4	1.0	2.0	1.2	3.1	2.0	2.0
Zane	1.3	1.0	1.7	1.2	2.4	2.0	1.3
A82-365028	1.6	1.0	1.8	1.3	2.8	2.0	2.0
A83-274011	1.6	1.0	2.3	1.2	2.6	2.0	2.0
A83-372027	1.9	1.2	2.3	1.3	2.9	1.5	2.0
C1631	1.5	1.2	2.3	1.3	3.0	2.0	1.7
C1647	1.3	1.0	2.3	1.2	2.4	1.5	2.3
C1655	1.5	1.0	1.7	1.2	2.6	1.0	1.3
HC74-634RE	1.3	1.0	1.0	1.2	2.3	2.0	1.0
HC80-585	1.3	1.0	1.0	1.2	2.0	2.0	1.0
HC81-2104	1.3	1.0	1.0	1.2	1.9	2.0	1.1
HW8371	1.5	1.0	1.8	1.3	2.6	1.5	2.0
L80-4323	1.3	1.0	1.3	1.2	1.9	2.0	1.7
LN80-6797	2.1	1.0	3.2	1.3	2.9	2.5	1.7
LN80-8478	1.6	1.2	1.8	1.4	3.5	2.0	2.0
LN80-16017	1.6	1.0	1.5	1.3	2.6	1.5	2.0
U80-64032	1.5	1.0	1.8	1.2	2.6	2.0	1.3
U80-65127	1.8	1.0	2.3	1.3	3.1	2.0	2.7
U80-70070	1.4	1.2	1.3	1.2	2.1	2.0	2.0

UNIFORM TEST III, 1985

PLANT HEIGHT (Inches)

Strain	Mean 21 Tests	Ottumwa IA	Stuart IA	Eldorado IL	Urbana IL	Bluff-ton IN	Lafayette IN
Century 84 (II)	32	36	36	21	38	27	34
Fayette	38	46	43	28	42	31	37
Harper (III)	31	40	37	22	37	26	32
Harper BC	31	40	36	23	37	25	37
Hobbit	22	25	28	15	24	19	25
Pella	34	41	39	20	42	28	36
AHW-Pella BC	32	39	36	20	41	30	33
Sparks (IV)	40	50	46	24	46	35	42
Williams 82	37	45	41	31	42	33	38
Zane	33	40	39	19	38	28	34
A82-365028	37	45	44	23	40	28	41
A83-274011	34	42	41	19	41	30	39
A83-372027	37	46	44	23	41	31	38
C1631	36	43	39	21	41	30	40
C1647	34	41	39	23	43	28	34
C1655	32	41	40	25	38	27	34
HC74-634RE	24	26	31	15	23	23	26
HC80-585	24	26	32	17	24	22	26
HC81-2104	24	27	30	16	25	21	26
HW8371	36	46	42	27	42	30	37
L80-4323	34	41	38	24	38	26	36
LN80-6797	33	41	37	26	37	28	35
LN80-8478	36	44	42	29	40	28	37
LN80-16017	33	41	37	25	40	30	35
U80-64032	31	35	36	18	37	26	32
U80-65127	36	42	39	24	40	31	39
U80-70070	36	46	44	22	44	29	37

UNIFORM TEST III, 1985

PLANT HEIGHT (Inches)

Strain	Sullivan IN	Man-hattan KS	Topeka KS	Lexing-ton KY	Queens-town MD	Columbia MO	Mead NE
Century 84 (II)	23	33	35	33	28	34	34
Fayette	31	40	42	41	35	25	43
Harper (III)	27	36	36	33	28	25	35
Harper BC	25	35	35	33	27	25	34
Hobbit	20	16	22	23	20	17	25
Pella	27	39	39	41	32	29	39
AHW-Pella BC	24	38	38	35	29	26	35
Sparks (IV)	33	44	44	44	38	35	45
Williams 82	30	44	42	40	29	31	41
Zane	27	37	36	36	29	26	36
A82-365028	29	42	42	40	33	31	42
A83-274011	30	38	35	38	29	29	39
A83-372027	33	44	41	41	31	33	43
C1631	30	41	41	42	30	32	39
C1647	28	34	36	37	32	31	39
C1655	22	38	39	32	25	27	36
HC74-634RE	20	21	21	26	22	19	28
HC80-585	22	21	22	26	21	19	28
HC81-2104	21	19	22	26	20	19	27
HW8371	30	41	41	40	31	32	40
L80-4323	28	38	34	36	32	-	37
LN80-6797	27	37	27	36	29	29	36
LN80-8478	30	42	42	42	30	32	43
LN80-16017	28	37	38	32	26	28	36
U80-64032	24	37	32	34	28	25	36
U80-65127	30	39	41	38	32	31	41
U80-70070	30	40	41	38	29	32	43

UNIFORM TEST III, 1985

PLANT HEIGHT (Inches)

Adelphia NJ	Hoytville OH	Ripley OH	S. Charleston OH	Wooster OH	Woodslee ONT	Landisville PA	Elk Point SD
31	30	29	35	24	37	30	35
36	38	37	42	27	44	37	44
29	28	28	34	20	40	29	35
28	30	27	33	21	35	27	36
22	20	22	22	18	29	22	27
32	31	33	37	25	38	32	39
31	29	28	34	24	35	30	36
37	40	39	39	27	47	36	46
34	34	34	40	25	44	35	43
32	32	33	33	25	38	33	36
32	33	36	42	26	43	37	41
29	34	35	36	25	40	32	39
32	36	38	41	27	45	35	41
37	33	34	38	27	43	35	38
30	33	32	38	25	41	30	40
30	31	26	35	23	37	30	35
24	23	22	24	20	30	27	25
25	23	24	24	19	31	27	26
23	23	23	24	19	30	28	26
31	35	33	36	27	45	38	40
34	30	30	34	24	39	35	36
31	32	32	35	26	39	32	35
34	33	33	36	28	44	34	42
30	31	28	35	25	37	32	42
29	29	28	35	23	38	28	38
35	36	38	40	26	42	32	43
37	33	34	37	22	42	35	40

UNIFORM TEST III, 1985

SEED QUALITY (Score)

Strain	Mean 20 Tests	Ottumwa IA	Stuart IA	Eldorado IL	Urbana IL	Bluff-ton IN	Lafayette IN
Century 84 (II)	2.1	2.9		3.2	1.8	1.0	2.0
Fayette	2.0	2.7		2.5	1.4	1.0	3.0
Harper (III)	1.9	2.3		2.7	1.6	1.0	3.5
Harper BC	1.7	2.2		2.5	1.6	1.0	1.5
Hobbit	1.6	2.3		2.3	1.1	1.0	1.5
Pella	2.1	2.4		2.8	1.8	1.0	3.0
AHW-Pella BC	2.0	2.2		3.0	1.8	1.0	2.0
Sparks (IV)	2.2	2.5		2.2	1.6	1.0	3.0
Williams 82	1.8	2.6		2.3	1.2	1.0	2.5
Zane	2.0	2.6		3.5	1.7	1.0	2.0
A82-365028	1.9	2.5		2.7	1.5	1.0	2.0
A83-274011	1.8	2.3		3.0	1.6	1.0	3.0
A83-372027	1.9	2.4		2.0	1.5	1.0	2.0
C1631	1.7	2.2		2.5	1.7	1.0	2.0
C1647	2.6	2.8		3.8	1.9	1.0	3.5
C1655	2.0	2.7		2.2	1.5	1.0	2.0
HC74-634RE	1.5	2.0		2.3	1.1	1.0	1.5
HC80-585	1.7	2.2		3.0	1.1	1.0	1.5
HC81-2104	1.6	2.7		2.2	1.1	1.0	1.5
HW8371	2.0	2.8		2.3	1.8	1.0	2.5
L80-4323	1.8	2.6		2.0	1.2	1.0	2.0
LN80-6797	2.1	2.5		2.8	1.7	1.0	2.0
LN80-8478	2.0	2.5		2.8	1.5	1.0	2.0
LN80-16017	1.9	2.2		2.7	1.5	1.5	2.0
U80-64032	2.6	2.8		4.0	2.5	2.0	3.0
U80-65127	1.8	2.4		2.7	1.5	1.0	2.5
U80-70070	2.3	2.7		2.7	1.9	1.5	2.5

UNIFORM TEST III, 1985

SEED QUALITY (Score)

Sullivan IN	Manhattan KS	Topeka KS	Lexington KY	Queens-town MD	Columbia MO	Mead NE	Adelphia NJ
2.0	3.0	2.0	2.0	3.7	1.3	2.2	1.0
2.0	2.0	2.0	1.0	2.0	2.5	2.3	1.3
3.0	2.0	2.0	1.0	2.2	1.3	2.3	1.0
2.0	1.0	2.5	2.0	2.2	1.3	2.5	1.0
1.5	1.0	1.5	2.0	2.2	1.3	1.5	1.0
3.0	2.0	2.0	2.0	2.2	1.5	2.0	1.7
2.5	2.0	2.0	2.0	2.8	1.3	2.2	1.3
2.0	2.0	2.0	2.0	2.8	1.7	2.0	1.3
1.5	1.0	2.0	1.0	1.8	1.3	2.3	1.0
2.5	2.0	2.5	1.0	2.8	1.3	2.3	1.3
2.0	2.0	2.0	1.0	3.3	1.8	1.7	1.3
3.0	1.0	2.0	1.0	2.3	1.5	1.8	1.0
2.0	2.0	2.0	2.0	2.3	1.3	1.8	1.7
2.0	1.0	2.0	1.0	2.0	1.3	1.5	1.0
3.5	3.0	3.0	3.0	3.5	2.2	3.2	1.3
2.0	2.0	2.0	2.0	3.5	1.3	1.8	1.3
1.0	1.0	1.5	1.0	2.2	1.7	1.5	1.0
1.0	1.0	2.0	1.0	2.2	1.8	1.5	1.7
2.0	1.0	1.5	1.0	1.5	1.5	1.0	1.3
2.0	3.0	2.0	2.0	2.2	1.3	2.5	1.0
2.0	2.0	2.0	2.0	2.0	-	1.7	1.7
2.5	3.0	1.5	2.0	3.2	1.8	1.8	1.0
2.0	2.0	2.0	2.0	3.2	1.3	1.7	1.0
2.0	1.0	2.0	2.0	1.7	1.3	2.2	1.3
3.0	1.0	2.5	2.0	4.2	2.0	2.2	2.3
1.5	1.0	2.0	1.0	2.5	1.8	1.7	1.3
2.5	2.0	3.0	3.0	2.5	1.7	2.3	2.0

UNIFORM TEST III, 1985

SEED QUALITY (Score)

Strain	Hoyt-ville OH	Ripley OH	S.Charles-ton OH	Wooster OH	Woodslee ONT	Landis-ville PA	Elk Point SD
Century 84 (II)	1.8	2.5	1.5	3.0	2.0	2.0	2.0
Fayette	1.2	1.5	1.0	3.7	2.0	2.0	3.0
Harper (III)	1.4	1.0	1.5	2.0	2.0	2.0	2.0
Harper BC	1.1	1.0	1.0	2.0	2.0	2.0	2.0
Hobbit	1.2	1.5	1.0	1.7	1.0	2.0	3.0
Pella	1.5	1.5	1.5	2.7	2.0	2.5	3.0
AHW-Pella BC	1.5	1.0	1.5	2.0	2.0	2.0	3.0
Sparks (IV)	1.7	2.5	1.5	3.0	2.0	2.5	4.0
Williams 82	1.5	1.5	1.0	2.7	2.0	2.5	3.0
Zane	1.5	1.5	2.0	1.7	2.0	2.0	3.0
A82-365028	1.5	2.0	1.5	2.7	2.0	2.0	2.0
A83-274011	1.4	1.5	1.5	2.0	1.0	2.5	2.0
A83-372027	1.3	1.5	1.5	2.3	2.0	2.0	3.0
C1631	1.2	1.5	1.5	2.0	2.0	2.0	2.0
C1647	1.5	2.0	2.5	2.3	2.0	2.0	3.0
C1655	1.3	2.0	1.5	3.0	2.0	2.0	3.0
HC74-634RE	1.1	1.5	1.5	1.3	1.0	2.0	3.0
HC80-585	1.2	1.0	1.5	1.7	2.0	2.0	3.0
HC81-2104	1.1	1.5	1.5	1.7	1.0	2.0	3.0
HW8371	1.3	2.0	1.0	2.0	2.0	2.0	3.0
L80-4323	1.3	1.5	1.0	2.0	2.0	2.0	3.0
LN80-6797	2.1	1.5	1.5	2.0	3.0	2.0	3.0
LN80-8478	1.6	2.5	1.5	2.0	2.0	3.0	3.0
LN80-16017	1.6	1.5	1.5	2.3	2.0	2.5	3.0
U80-64032	1.5	2.5	3.5	3.0	2.0	2.0	4.0
U80-65127	1.8	1.5	1.5	1.7	2.0	2.0	3.0
U80-70070	1.4	2.0	1.5	2.0	3.0	2.0	3.0

UNIFORM TEST III, 1985

SEED SIZE (g/100)

Strain	Mean 20 Tests	Ottumwa IA	Stuart IA	Eldorado IL	Urbana IL	Bluff-ton IN	Lafayette IN
Century 84 (II)	18.8	20.2		15.8	19.5	20.2	18.5
Fayette	16.9	16.5		12.6	17.3	19.8	18.2
Harper (III)	19.8	22.0		16.1	20.8	20.4	21.6
Harper BC	19.7	21.9		16.1	21.4	20.9	20.9
Hobbit	17.2	18.3		12.7	17.7	19.3	18.2
Pella	20.2	20.2		15.2	21.3	21.2	22.1
AHW-Pella BC	20.5	20.8		16.9	23.1	22.3	22.8
Sparks (IV)	17.6	18.4		12.3	18.3	20.5	20.1
Williams 82	17.6	17.7		13.5	18.7	17.9	18.6
Zane	20.1	22.6		15.2	23.0	20.2	21.8
A82-365028	17.2	17.4		14.3	17.7	18.1	19.9
A83-274011	17.1	17.6		12.3	18.1	16.5	20.2
A83-372027	15.8	16.4		11.1	16.8	17.0	17.1
C1631	19.3	20.7		15.5	20.6	20.2	20.1
C1647	21.9	23.0		18.3	23.4	24.8	22.5
C1655	18.3	18.5		15.4	19.0	19.8	19.3
HC74-634RE	20.1	21.1		15.2	21.0	21.4	20.9
HC80-585	19.9	20.7		15.8	20.1	22.9	20.4
HC81-2104	15.1	15.9		10.3	14.8	18.0	15.9
HW8371	17.4	18.6		14.0	19.2	17.7	19.3
L80-4323	17.6	17.5		12.3	18.8	18.4	19.3
LN80-6797	16.8	17.6		12.6	17.8	17.2	18.8
LN80-8478	19.1	20.4		14.8	19.0	19.4	20.9
LN80-16017	20.3	20.6		15.1	21.1	20.3	22.2
U80-64032	18.1	19.9		14.5	19.8	20.5	18.7
U80-65127	16.7	18.6		13.8	16.4	16.8	18.3
U80-70070	17.8	18.3		13.2	17.8	18.4	19.9

UNIFORM TEST III, 1985

SEED SIZE (g/100)

Strain	Sullivan IN	Manhattan KS	Topeka KS	Lexington KY	Queenstown MD	Columbia MO	Mead NE
Century 84 (II)	22.4	17.3	18.8	19.0	19.4	15.5	18.9
Fayette	21.6	16.0	17.4	14.8	17.3	17.0	16.3
Harper (III)	24.6	20.3	20.0	18.9	21.1	17.5	18.8
Harper BC	24.4	18.9	20.4	19.2	20.6	18.1	18.5
Hobbit	21.3	17.2	17.6	17.9	16.5	17.5	17.4
Pella	24.2	19.3	18.1	19.8	21.1	20.5	18.6
AHW-Pella BC	23.5	19.9	17.4	19.4	21.4	20.7	18.6
Sparks (IV)	21.5	16.9	18.8	16.1	18.9	15.1	16.7
Williams 82	20.7	16.8	16.6	16.7	18.5	16.9	17.7
Zane	24.4	19.5	19.6	20.4	20.4	17.8	18.6
A82-365028	20.7	17.3	16.0	16.1	17.7	16.4	16.7
A83-274011	21.7	16.8	17.1	16.1	17.1	16.8	17.3
A83-372027	17.9	15.6	16.9	14.4	14.9	15.2	15.4
C1631	22.3	18.8	20.5	18.5	20.8	17.9	17.4
C1647	24.3	19.0	19.4	20.5	23.8	20.9	20.9
C1655	22.5	18.2	19.9	17.3	19.1	16.9	17.8
HC74-634RE	23.5	20.1	21.2	19.1	19.9	18.0	19.3
HC80-585	24.3	18.6	21.1	19.7	19.3	16.9	18.8
HC81-2104	18.0	15.8	16.3	13.0	14.3	14.3	14.2
HW8371	20.9	17.1	18.9	16.9	18.8	16.7	16.1
L80-4323	22.4	15.2	17.3	16.7	19.3	-	16.8
LN80-6797	21.1	17.1	16.2	15.4	17.7	14.8	15.7
LN80-8478	21.9	18.5	20.0	18.0	18.8	19.9	18.4
LN80-16017	25.6	20.4	21.1	19.7	20.9	19.4	19.9
U80-64032	21.3	17.8	18.6	17.6	19.2	13.4	17.3
U80-65127	21.2	16.6	16.5	16.0	16.9	13.8	16.0
U80-70070	22.4	18.1	18.6	16.0	20.9	17.0	17.5

UNIFORM TEST III, 1985

SEED SIZE (g/100)

Adelphia NJ	Hoytville OH	Ripley OH	S. Charleston OH	Wooster OH	Woodslee ONT	Landisville PA	Elk Point SD
19.0	19.5	16.9	19.3	19.1	19.7	20.1	17.1
17.0	18.1	15.7	18.5	16.6	17.6	16.6	13.2
19.5	20.1	16.0	21.3	19.0	20.0	20.1	17.1
18.5	19.3	16.6	22.0	18.9	20.4	21.3	15.9
16.5	18.7	14.5	17.4	16.9	18.9	18.4	11.0
18.0	20.9	16.9	21.7	20.7	21.4	23.9	17.9
18.5	22.0	16.9	21.5	21.1	21.8	22.4	18.2
16.5	19.2	14.9	19.4	18.1	17.9	18.4	13.2
17.0	18.5	17.7	19.0	17.3	18.8	18.0	14.2
20.5	20.3	17.9	21.4	19.9	21.3	21.2	16.5
16.0	18.5	15.3	18.5	16.6	18.3	18.2	14.5
15.5	18.1	13.8	17.1	15.0	18.2	17.8	18.2
14.5	16.3	13.9	18.0	15.4	17.9	16.8	13.7
18.0	19.0	17.3	22.6	18.8	20.4	20.4	16.0
19.5	23.2	19.2	23.9	22.7	22.9	24.8	21.3
17.5	18.7	16.1	18.4	18.7	19.1	18.1	15.9
20.0	21.2	17.3	20.6	19.4	21.0	23.2	18.2
19.5	21.9	16.4	21.3	19.5	21.0	21.8	18.3
15.5	16.3	12.0	15.8	15.0	15.8	16.5	14.6
18.0	16.6	15.7	18.1	16.3	18.0	18.3	13.7
17.5	18.0	15.7	19.2	17.0	17.9	19.8	15.0
16.5	17.1	14.5	16.7	15.7	17.2	19.3	16.6
19.5	19.5	16.8	20.1	19.0	18.7	20.8	16.6
20.5	21.2	17.9	20.9	19.9	21.5	20.4	18.1
17.5	17.8	14.9	19.5	18.3	18.6	19.6	18.0
17.5	16.2	14.1	17.3	16.2	17.9	18.5	14.9
17.5	18.6	15.0	18.3	17.1	18.1	19.1	15.1

UNIFORM TEST III, 1985

PROTEIN (%)

Strain	Mean 5 Tests	Ottumwa IA	Eldorado IL	Lafayette IN	Manhattan KS	S.Charleston OH
Century 84 (II)	44.1	43.0	45.3	43.9	43.2	45.1
Fayette	42.7	41.9	43.1	44.0	42.4	42.0
Harper (III)	41.7	40.8	43.7	41.6	40.6	42.0
Harper BC	41.4	40.7	42.2	42.0	41.1	41.0
Hobbit	39.6	38.7	42.1	40.2	37.4	39.5
Pella	40.3	38.4	42.7	39.3	40.4	40.8
AHW-Pella BC	39.7	37.6	42.0	38.4	39.9	40.6
Sparks (IV)	40.4	39.7	41.0	41.2	40.3	40.0
Williams 82	41.9	41.4	41.8	43.1	41.8	41.4
Zane	39.9	38.8	42.5	39.5	38.4	40.3
A82-365028	40.2	39.7	40.4	41.1	39.4	40.2
A83-274011	40.6	39.0	42.3	41.6	38.9	41.2
A83-372027	40.5	40.4	41.3	41.3	38.8	40.7
C1631	41.9	40.3	44.3	42.0	41.2	41.9
C1647	39.0	37.1	40.2	39.9	37.5	40.3
C1655	41.5	41.1	42.6	42.5	39.6	41.9
HC74-634RE	42.8	41.9	44.2	43.5	41.6	42.9
HC80-585	40.0	39.4	42.0	39.5	38.9	40.1
HC81-2104	41.3	40.3	43.2	41.1	41.3	40.4
HW8371	43.0	42.2	43.6	44.9	41.7	42.6
L80-4323	42.7	40.8	43.1	43.6	41.3	42.0
LN80-6797	41.6	40.7	43.3	42.6	40.5	41.0
LN80-8478	42.8	41.7	44.3	43.3	42.0	42.8
LN80-16017	43.6	43.2	45.9	42.8	42.2	43.7
U80-64032	40.5	39.1	42.5	40.0	40.0	41.0
U80-65127	41.6	39.7	44.8	42.4	39.9	41.1
U80-70070	40.6	39.1	43.2	40.0	40.0	40.6

UNIFORM TEST III, 1985

OIL (%)

Strain	Mean 5 Tests	Ottumwa IA	Eldorado IL	Lafayette IN	Manhattan KS	S.Charleston OH
Century 84 (II)	20.3	21.1	19.8	20.5	20.7	19.3
Fayette	21.2	21.5	21.3	20.4	21.8	21.0
Harper (III)	21.7	22.1	21.0	21.5	23.1	20.7
Harper BC	21.7	22.4	21.2	21.3	22.7	21.1
Hobbit	23.0	23.1	22.3	22.6	25.0	21.9
Pella	22.0	23.2	21.0	22.3	22.9	20.7
AHW-Pella BC	22.6	23.7	20.7	23.7	22.9	21.9
Sparks (IV)	20.9	21.9	20.1	20.2	21.4	20.9
Williams 82	21.5	21.8	21.3	21.0	22.6	20.7
Zane	23.3	23.9	22.0	23.1	25.3	22.0
A82-365028	22.5	23.8	21.8	21.4	23.7	21.8
A83-274011	21.6	22.1	20.3	21.4	23.8	20.6
A83-372027	22.3	23.1	21.8	22.0	22.8	21.6
C1631	20.6	21.5	18.5	20.8	21.6	20.5
C1647	21.8	22.4	21.7	21.5	22.9	20.5
C1655	21.9	22.5	21.6	21.2	23.0	21.0
HC74-634RE	21.5	22.1	20.6	20.5	22.9	21.2
HC80-585	23.8	24.5	21.9	24.3	25.4	23.0
HC81-2104	21.1	21.2	19.8	21.3	21.6	21.6
HW8371	20.8	21.3	19.7	21.1	21.5	20.6
L80-4323	21.3	22.2	20.0	20.9	22.0	21.6
LN80-6797	21.4	21.9	20.2	21.3	22.1	21.4
LN80-8478	20.4	21.4	19.6	19.6	21.2	20.2
LN80-16017	19.8	19.9	18.4	20.0	21.5	19.4
U80-64032	20.7	20.9	19.8	21.3	21.0	20.3
U80-65127	21.9	22.7	20.0	21.9	23.5	21.5
U80-70070	22.4	23.2	20.4	22.8	23.7	21.7

PRELIMINARY TEST IIIA, 1985

Strain	Parentage	Generation Composited
Century 84 (II)	Century[5] x Williams 82	BC_4F_4
Harper (III)	Unknown	F_4
Zane	Cumberland x Pella	F_5
Sparks (IV)	Williams x Calland	F_6
Williams 82	Williams[7] x Kingwa	$4BC_6F_3$
A84-381009	A80-247007 x Harper	F_4
A84-381014	A79-334010 x A80-247007	F_4
A84-381021	A80-247007 x Asgrow 1937	F_4
A84-381026	Asgrow A3127 x A78-123018	F_4
A84-381030	HW79015 x A80-247007	F_4
A84-382002	A79-138024 x Harper	F_4
A84-382009	A80-247007 x Asgrow A3127	F_4
A84-382010	A80-247007 x Asgrow A3127	F_4
A84-382015	Harper x HW79015	F_4
A84-382028	A79-334010 x Harper	F_4
A84-383005	Asgrow 1937 x A79-334010	F_4
A84-383015	Harper x Asgrow 1937	F_4
A84-383018	A80-247007 x Harper	F_4
A84-383019	Migro HP2530 x Asgrow A3127	F_4
A84-384017	Harper x Asgrow 1937	F_4
HM8470	A3127[4] x Williams 82	BC_3F_2
HM8471	A3127[4] x Williams 82	BC_3F_2
HM8472	A3127[4] x Williams 82	BC_3F_2
HM8473	A3127[4] x Williams 82	BC_3F_2
HM8481	Gnome x Williams 82	F_6
HM8482	Amcor x Williams 82	F_6
HM8486	A3127 x Williams 82	F_6
HM8490	(Gnome x Wms 82 x (A76-103002 x Wms 82)	F_6
HM8494	(Hardin x Wms 82) x [A3127 x (A72-507BC x K100]	F_6
HM8497	(Hardin x Wms 82) x [A3127 x (A72-507BC x K100]	F_6
K1116	L73-6084 x Crawford	F_5
U80-68004	Williams x Hodgson	F_5
U80-68130	Williams x L69U-40-19-1	F_5
U81-65007	Nebsoy x L70T-543C	F_5
U82-65123	L71-2855 x Nebsoy	F_5
U82-67005	L66-1359 x Chippewa 64	F_6
U82-67014	Nebsoy x A74-203002	F_6
U82-69128	A74-304009 X C1529	F_5
U82-70024	Nebsoy x Elf	F_6
U82-70033	Nebsoy x Elf	F_6

PRELIMINARY TEST IIIA, 1985

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score	Shattering Score	BSR	DM	BSR	
					Urbana		Plant N	Stem N
			Ames	Manhattan	---Score--		%	%
Century 84 (II)	PTBSYBl	I	2.8	1.0	4.0	1.5	100	92.5
Harper (III)	PTBSYBl	I	3.5	1.0	3.0	1.5	100	82.1
Zane	PGBDYBf	I	2.8	1.0	2.0	2.0	100	77.6
Sparks (IV)	WTTSYBl	I	2.8	1.0	2.0	2.0	100	71.2
Williams 82	WTTSYBl	I	2.8	1.0	1.5	2.0	100	77.5
A84-381009	P+WTBSYBr	I	3.0	1.0	3.5	1.5	100	89.1
A84-381014	PGBDYIb	I	3.5	1.0	3.5	1.5	100	57.0
A84-381021	PTBDYBr	I	3.5	2.0	2.0	2.0	100	80.3
A84-381026	PGTDYIb	I	4.5	1.0	3.0	1.0	100	97.7
A84-381030	WTBDYBr	I	2.5	1.0	4.5	2.0	100	66.3
A84-382002	PTBDYGr	I	3.2	1.0	4.0	1.0	100	80.5
A84-382009	WTBDYIb	I	1.7	2.0	3.0	2.0	100	74.2
A84-382010	WTBDYBl	I	2.5	2.0	3.0	1.0	100	75.8
A84-382015	PTBDYBl	I	3.8	1.0	4.5	1.5	30	24.2
A84-382028	PTBDYIb	I	3.5	1.0	4.0	1.5	90	50.5
A84-383005	PG+TBDYBf	I	3.3	1.0	3.0	1.5	40	17.7
A84-383015	PTBDYBf	I	3.5	1.0	4.0	1.0	90	47.2
A84-383018	PTBDYBl	I	3.3	1.0	5.0	1.0	90	48.8
A84-383019	WTBDYBl	I	3.0	1.0	2.0	2.0	70	37.2
A84-384017	PTBDYBl	I	4.0	1.0	2.0	2.5	90	42.7
HM8470	PTTDYBl	I	3.7	1.0	1.5	1.0	90	35.9
HM8471	PTTDYBl	I	3.3	1.0	1.5	1.5	100	47.3
HM8472	PTTDYBl	I	3.2	1.0	1.5	1.5	100	45.9
HM8473	PTTIYBl	I	3.3	1.0	1.5	1.5	70	28.5
HM8481	WTTSYBl	I	3.2	1.0	1.0	2.5	90	37.9
HM8482	PGBSYIb	I	4.0	1.0	4.0	1.5	86	31.5
HM8486	WTTDYBl	I	3.7	1.0	1.5	1.0	70	30.7
HM8490	WTTSYBl	I	3.5	1.0	2.0	3.0	90	64.6
HM8494	PTTDYBl+Br	I	3.7	1.0	2.5	1.5	100	46.9
HM8497	PTTDYBr	I	3.7	2.0	2.0	1.0	100	78.6
K1116	WTTSYBl	I	3.7	1.0	3.0	1.0	100	75.2
U80-68004	PGTSYBf	I	3.5	1.0	5.0	2.5	100	58.3
U80-68130	WTBDYG	I	4.0	1.0	2.0	1.5	100	62.0
U81-65007	WGBSYBr	I	3.5	1.0	4.0	1.0	100	70.9
U82-65123	WGBSYBf	I	4.5	2.0	4.0	1.5	100	85.2
U82-67005	WTBSYBl	I	3.7	1.0	4.5	2.5	100	82.5
U82-67014	WTBSYBl	I	3.7	3.0	3.0	2.0	100	57.6
U82-69128	WGBDYY	I	3.0	1.0	2.5	1.0	100	70.2
U82-70024	PTTSYBl	I	3.0	1.0	3.5	1.0	90	68.9
U82-70033	PTTSYBl	I	3.5	1.0	3.0	1.0	100	74.2

PRELIMINARY TEST IIIA, 1985

DISEASE DATA

Strain	PR			PS	PSB	SMV	Germ
	Ames	Lafayette	Vickery	Lafayette			
	Race4	Race1	Tolerance	a	n	a	
	--Reaction--		Score	%	%	Score	%
Century 84 (II)	R	S	2.8	40	16	4E	80
Harper (III)	S	S	3.0	13	2	5E	90
Zane	S	H	2.9	54	10	4E	86
Sparks (IV)	S	R	2.4	30	20	5E	82
Williams 82	R	R	2.5	19	10	4E	84
A84-381009	S	S	3.0	12	4	5E	96
A84-381014	S	S	3.1	42	10	5E	88
A84-381021	S	R	3.0	67	6	5M	86
A84-381026	S	S	2.8	11	6	4E	94
A84-381030	S	S	3.0	37	4	5E	96
A84-382002	S	S	3.1	10	2	5E	96
A84-382009	S	S	3.0	22	6	5E	94
A84-382010	S	S	3.1	11	4	3M	84
A84-382015	S	S	3.3	42	6	5E	86
A84-382028	S	S	2.9	12	8	5S	80
A84-383005	S	S	3.0	32	14	5E	80
A84-383015	S	R	2.8	32	10	5E	90
A84-383018	S	S	3.4	14	2	5E	98
A84-383019	S	R	2.8	34	4	5M	88
A84-384017	S	R	2.8	28	18	5E	78
HM8470	S	S	2.5	16	6	3E	88
HM8471	R	R	2.9	24	2	4E	94
HM8472	H	H	2.9	23	4	3M	88
HM8473	R	R	3.0	13	4	1	84
HM8481	R	R	2.6	14	2	5E	90
HM8482	R	R	2.6	72	22	5E	66
HM8486	S	H	2.9	31	4	3E	92
HM8490	R	R	2.6	47	4	3E	88
HM8494	R	R	2.5	44	14	5M	84
HM8497	R	R	2.5	44	18	5E	72
K1116	S	S	3.1	27	4	4E	90
U80-68004	S	S	2.9	51	10	4E	78
U80-61830	S	R	3.0	43	12	5E	80
U81-65007	S	R	2.8	63	61	4M	76
U82-65123	S	R	3.0	75	2	3M	88
U82-67005	S	S	2.4	26	0	4M	96
U82-67014	S	R	4.0	38	4	5E	70
U82-69128	S	R	3.3	52	10	2M	70
U82-70024	S	S	2.6	34	8	5E	88
U82-70033	S	S	3.0	26	14	5M	76

PRELIMINARY TEST IIIA, 1985
Regional Summary

Strain No. of Tests	Yield 8 bu/a	Rank 8 No.	Maturity 8 Date	Lodging 9 Score	Plant Height 9 In	Seed Quality 8 Score	Seed Size 8 g/100	Composition Protein 5 %	Oil 5 %
Century 84 (II)	48.8	35	-5.3	1.4	35	2.1	19.7	43.2	20.6
Harper (III)	53.7 ~~57.8~~	6	9-27.9*	1.4	35	1.8	20.5	40.8	22.0
Zane	53.2	18	-4.1	1.5	36	2.0	21.7	39.1	23.3
Sparks (IV)	52.1	22	+6.8	2.6	45	2.2	18.2	40.5	21.6
Williams 82	52.2	21	+4.8	1.8	42	1.7	18.0	41.6	21.6
A84-381009	53.3	17	-1.1	2.0	37	2.0	17.4	40.3	22.6
A84-381014	54.5	14	-0.6	2.8	39	2.0	16.8	38.4	22.7
A84-381021	56.1	9	+0.4	2.1	41	2.0	16.4	39.2	22.5
A84-381026	52.8	19	+2.8	2.7	39	2.0	15.3	39.5	21.6
A84-381030	55.4	11	+1.6	2.6	39	1.9	20.3	40.7	22.0
A84-382002	57.2	7	+0.8	1.5	33	2.3	19.9	40.1	21.3
A84-382009	53.4	16	+0.9	1.9	39	1.8	17.2	38.5	22.5
A84-382010	50.8	28	+1.0	2.4	41	1.8	17.0	40.6	21.3
A84-382015	52.7	20	-0.5	1.8	37	2.0	20.4	40.1	21.6
A84-382028	52.1	22	+2.0	2.5	39	2.3	19.5	41.6	21.4
A84-383005	53.9	15	+1.9	2.9	41	2.1	15.6	40.5	21.2
A84-383015	54.6	13	+4.3	1.7	40	2.0	18.1	40.2	21.2
A84-383018	49.7	31	+1.8	2.5	39	1.9	15.6	39.2	22.0
A84-383019	51.0	25	+3.6	1.9	43	2.1	17.9	41.2	20.9
A84-384017	57.1	8	+4.8	2.1	41	1.8	17.9	40.3	21.7
HM8470	60.4	1	+1.9	1.6	37	1.8	17.2	41.6	21.7
HM8471	59.6	2	+0.8	1.4	36	1.7	16.5	41.1	21.9
HM8472	59.5	3	+2.0	1.4	37	1.5	16.9	41.2	21.8
HM8473	59.1	4	+1.6	1.4	35	1.7	16.7	40.5	22.0
HM8481	51.2	24	+2.0	1.6	40	1.6	16.7	41.9	21.8
HM8482	49.6	32	-0.5	2.1	39	2.1	19.8	38.4	22.8
HM8486	57.8	5	+0.9	1.3	35	1.6	19.6	41.4	22.5
HM8490	50.8	28	+1.8	2.1	42	1.9	19.5	42.0	21.8
HM8494	55.9	10	+1.5	2.1	44	2.0	15.4	39.7	22.1
HM8497	50.9	26	-1.1	2.3	43	1.9	15.6	39.5	22.0
K1116	49.1	34	+1.4	1.7	41	1.9	18.5	43.2	20.6
U80-68004	50.2	30	-3.1	2.4	41	1.7	17.0	37.9	23.8
U80-68130	55.3	12	+3.5	1.7	37	2.0	19.5	39.8	21.3
U81-65007	49.3	33	-2.6	2.3	40	2.3	20.4	40.3	21.8
U82-65123	50.9	26	-1.4	1.8	38	2.0	21.6	41.1	21.5
U82-67005	44.9	40	+2.9	2.4	41	1.8	17.4	40.0	21.3
U82-67014	48.3	38	-1.0	1.9	40	2.3	20.6	39.5	22.6
U82-69128	48.4	37	-1.8	1.5	35	2.6	22.9	40.2	22.3
U82-70024	48.7	36	+5.4	2.7	42	1.8	17.3	39.5	21.6
U82-70033	48.0	39	+5.8	2.4	40	1.8	17.1	39.8	21.8

* 138 Days After Planting

PRELIMINARY TEST IIIA, 1985
YIELD (bu/a)

Strain	Mean 8 Tests	Ottumwa IA	Stuart IA	Urbana IL
Century 84 (II)	48.8	41.7	48.4	64.3
Harper (III)	~~57.8~~ 53.7	52.0	47.8	68.4
Zane	53.2	53.1	48.7	71.8
Sparks (IV)	52.1	46.2	41.6	68.6
Williams 82	52.2	44.6	40.3	69.8
A84-381009	53.3	51.1	47.3	66.5
A84-381014	54.5	45.3	54.2	65.5
A84-381021	56.1	49.2	47.5	75.7
A84-381026	52.8	45.5	44.3	70.7
A84-381030	55.4	48.8	48.8	70.4
A84-382002	57.2	54.4	51.1	76.1
A84-382009	53.4	47.4	49.1	67.4
A84-382010	50.8	43.3	47.5	60.7
A84-382015	52.7	50.1	49.8	69.8
A84-382028	52.1	50.6	51.9	66.8
A84-383005	53.9	51.6	49.6	65.5
A84-383015	54.6	47.6	47.0	68.5
A84-383018	49.7	44.4	46.8	53.9
A84-383019	51.0	45.5	44.5	68.7
A84-384017	57.1	50.7	47.3	80.1
HM8470	60.4	55.1	51.0	79.3
HM8471	59.6	54.3	50.4	77.8
HM8472	59.5	51.7	47.6	76.7
HM8473	59.1	56.6	49.4	74.2
HM8481	51.2	44.4	40.4	68.7
HM8482	49.6	43.3	40.2	71.5
HM8486	57.8	57.6	51.8	77.5
HM8490	50.8	42.5	39.8	69.0
HM8494	55.9	55.3	47.1	76.0
HM8497	50.9	50.2	44.7	74.7
K1116	49.1	37.6	41.6	63.4
U80-68004	50.2	39.7	47.6	50.9
U80-68130	55.3	52.1	49.0	75.1
U81-65007	49.3	42.1	52.0	63.0
U82-65123	50.9	45.8	45.5	65.6
U82-67005	44.9	38.7	37.1	51.7
U82-67014	48.3	43.4	46.7	62.2
U82-69128	48.4	45.8	45.8	63.5
U82-70024	48.7	46.5	44.1	59.6
U82-70033	48.0	40.7	42.3	61.8
C.V. (%)		6.3	5.1	7.2
L.S.D. (5%)		6.0	4.8	9.8
Row Sp. (In.)		27	27	30
Rows/Plot		4	4	4
Reps		2	2	2

* NOT INCLUDED IN MEAN

PRELIMINARY TEST IIIA, 1985
YIELD (bu/a)

Lafayette IN	Manhattan KS	Mead NE	Hoytville OH	S. Charleston OH	Elk Point SD*
42.0	37.0	54.9	45.6	56.3	35.8
49.6	46.8	52.9	50.3	62.0	30.7
50.6	49.1	53.8	40.6	58.1	29.9
51.6	44.3	44.5	49.8	60.3	17.2
55.5	47.3	48.3	56.4	55.7	31.9
54.3	44.8	57.6	51.8	53.0	22.3
60.1	56.1	57.7	45.4	51.5	35.7
60.1	51.2	59.0	49.1	57.3	34.2
54.5	53.8	48.8	46.3	58.6	27.6
58.0	52.3	61.4	41.7	61.5	31.7
60.3	47.5	53.4	55.5	59.6	30.0
52.3	52.4	53.3	47.6	57.5	21.3
53.4	47.8	53.2	45.1	55.1	31.9
56.1	46.1	45.5	51.4	52.8	34.8
51.8	48.8	46.3	44.9	55.7	35.2
54.3	53.4	55.0	47.9	53.6	27.7
53.3	51.7	54.2	52.1	62.3	38.1
52.7	42.7	48.2	51.3	57.6	29.1
52.2	46.6	44.7	49.2	56.7	24.0
60.0	45.9	50.5	57.3	65.1	38.3
63.1	55.2	57.2	54.6	67.6	35.2
61.4	50.8	58.6	55.0	68.3	36.4
62.0	52.8	58.1	61.7	65.5	34.9
63.8	47.6	57.6	60.3	63.2	30.5
55.1	40.3	50.4	53.7	56.2	30.2
52.0	44.3	47.6	44.2	53.9	39.8
56.1	47.1	57.8	52.5	62.1	22.9
50.3	43.1	47.7	55.4	58.3	30.2
55.4	51.2	58.7	42.3	61.3	28.9
52.7	37.9	47.3	42.0	57.8	27.3
52.0	47.5	46.7	48.6	55.2	19.0
55.2	50.7	55.4	47.0	54.7	39.0
57.4	55.2	50.9	47.4	55.0	29.4
48.4	42.7	44.6	48.7	52.7	31.2
53.5	46.1	51.3	44.8	54.9	33.6
47.9	46.2	43.2	48.3	45.8	27.4
48.4	44.6	44.0	40.7	56.0	32.2
48.5	42.5	49.9	36.4	55.1	26.5
51.6	45.8	40.9	42.0	59.0	23.4
50.0	46.6	43.1	45.3	54.2	13.0
6.5	7.8	-	12.9	-	20.5
5.9	7.6	-	N.S.	-	12.2
24	30	30	30	30	30
4	4	4	4	4	4
2	2	2	2	2	2

PRELIMINARY TEST IIIA, 1985
YIELD RANK

Strain	Yield Rank	Ottumwa IA	Stuart IA	Urbana IL
Century 84 (II)	35	36	15	30
Harper (III)	6	9	16	23
Zane	18	7	14	12
Sparks (IV)	22	22	34	21
Williams 82	21	28	37	16
A84-381009	17	12	21	26
A84-381014	14	27	1	28
A84-381021	9	17	19	8
A84-381026	19	25	31	14
A84-381030	11	18	13	15
A84-382002	7	5	5	6
A84-382009	16	20	11	24
A84-382010	28	32	19	36
A84-382015	20	16	8	16
A84-382028	22	14	3	25
A84-383005	15	11	9	28
A84-383015	13	19	24	22
A84-383018	31	29	25	38
A84-383019	25	25	30	19
A84-384017	8	13	21	1
HM8470	1	4	6	2
HM8471	2	6	7	3
HM8472	3	10	17	5
HM8473	4	2	10	11
HM8481	24	29	36	19
HM8482	32	32	38	13
HM8486	5	1	4	4
HM8490	28	34	39	18
HM8494	10	3	23	7
HM8497	26	15	29	10
K1116	34	40	34	32
U80-68004	30	38	17	40
U80-68130	12	8	12	9
U81-65007	33	35	2	33
U82-65123	26	23	28	27
U82-67005	40	39	40	39
U82-67014	38	31	26	34
U82-69128	37	23	27	31
U82-70024	36	21	32	37
U82-70033	39	37	33	35

PRELIMINARY TEST IIIA, 1985
YIELD RANK

Lafayette IN	Manhattan KS	Mead NE	Hoytville OH	S. Charleston OH	Elk Point SD
40	40	13	27	22	6
35	22	19	15	8	19
32	14	15	39	16	24
30	32	36	16	11	39
13	20	26	4	25	15
18	30	8	12	36	36
6	1	7	28	39	7
6	10	2	18	20	12
17	4	25	26	14	29
9	8	1	37	9	17
5	18	16	5	12	23
25	7	17	23	19	37
21	16	18	30	28	15
11	26	33	13	37	11
29	15	32	31	25	8
18	5	12	22	35	28
22	9	14	11	6	4
23	35	27	14	18	26
26	23	35	17	21	33
8	28	22	3	4	3
2	2	10	8	2	8
4	12	4	7	1	5
3	6	5	1	3	10
1	17	9	2	5	20
16	38	23	9	23	21
27	32	29	33	34	1
11	21	6	10	7	35
33	34	28	6	15	21
14	10	3	34	10	27
23	39	30	36	17	31
27	18	31	20	27	38
15	13	11	25	32	2
10	2	21	24	30	25
37	35	34	19	38	18
20	26	20	32	31	13
39	25	38	21	40	30
37	31	37	38	24	14
36	37	24	40	28	32
30	29	40	35	13	34
34	23	39	29	33	40

PRELIMINARY TEST IIIA, 1985
MATURITY (Date)

Strain	Mean 8 Tests	Ottumwa IA	Stuart IA	Urbana IL
Century 84 (II)	-5.3		-5	-3
Harper	9-27.9		9-24	9-21
Zane	-4.1		-4	-3
Sparks (IV)	+6.8		+12	+5
Williams 82	+4.8		+4	+5
A84-381009	-1.1		+2	0
A84-381014	-0.6		-2	-2
A84-381021	+0.4		+2	+1
A84-381026	+2.8		+4	+1
A84-381030	+1.6		0	0
A84-382002	+0.8		+2	-1
A84-382009	+0.9		+1	+1
A84-382010	+1.0		0	+1
A84-382015	+0.5		-2	-1
A84-382028	+2.0		+4	+1
A84-383005	+1.9		+2	+3
A84-383015	+4.3		+10	+4
A84-383018	+1.8		+2	0
A84-383019	+3.6		+7	+3
A84-384017	+4.8		+10	+6
HM8470	+1.9		-1	0
HM8471	+0.8		-2	0
HM8472	+2.0		+2	0
HM8473	+1.6		0	-1
HM8481	+2.0		+2	+2
HM8482	-0.5		0	-1
HM8486	+0.9		0	-1
HM8490	+1.8		0	+3
HM8494	+1.5		+2	0
HM8497	-1.1		-2	-1
K1116	+1.4		0	+1
U80-68004	-3.1		-4	-6
U80-68130	+3.5		+6	+4
U81-65007	-2.6		-4	-2
U82-65123	-1.4		-2	-2
U82-67005	+2.9		+1	0
U82-67014	-1.0		-2	-1
U82-69128	-1.8		-3	-3
U82-70024	+5.4		+11	+3
U82-70033	+5.8		+10	+6
Date Planted	5-13		5-6	5-7
Days to Mature	138		141	137

PRELIMINARY TEST IIIA, 1985
MATURITY (Date)

Lafayette IN	Manhattan KS	Mead NE	Hoytville OH	S. Charleston OH	Elk Point SD
-7	-7	-13	-7	+3	-3
9-24	9-24	10-5	9-26	9-20	10-19
-7	-5	-4	-7	-2	-1
+3	+8	+6	+7	+11	+2
0	+6	+6	+7	+8	+2
-3	-6	0	-2	-2	+2
-4	+4	+1	0	-2	0
-4	+2	+1	+1	+1	-1
-1	+4	+5	+2	+6	-1
-1	+5	+2	+1	+5	+1
-2	+1	+1	+2	+3	0
-4	+4	+1	+2	+4	-2
-1	+3	0	+2	+4	-1
-1	-1	0	-2	+3	0
-1	+4	+3	0	+4	+1
0	+4	+2	+2	+2	0
-1	+4	+3	+6	+7	+1
-2	+5	+1	0	+6	+2
0	+5	+3	+5	+6	0
+1	+4	+4	+5	+6	+2
-3	+3	+2	+5	+7	+2
-3	+2	0	+3	+4	+2
-2	+1	+1	+6	+7	+1
-3	+4	+2	+6	+6	-1
-3	+1	+2	+3	+7	+2
-5	+2	-1	-2	3	0
-3	0	+1	+4	+6	0
-1	+4	+2	+2	+6	-2
-4	+5	+2	0	+6	+1
-5	-1	+1	-2	+2	-1
-2	+2	+1	+1	+6	+2
-6	-5	0	-2	-2	0
0	+5	+3	+5	+8	-3
-4	-6	-3	-2	+1	-1
-3	-4	-2	-2	+4	0
0	+6	+3	+3	+8	+2
-6	-1	0	-1	+3	0
-3	-4	-3	-4	+4	+2
0	+8	+4	+4	+11	+2
0	+6	+5	+6	+11	+2
5-7	5-17	5-23	5-10	5-7	5-23
140	130	135	139	136	149

PRELIMINARY TEST IIIA, 1985
LODGING (Score)

Strain	Mean 9 Tests	Ottumwa IA	Stuart IA	Urbana IL
Century 84 (III)	1.4	2.0	1.9	1.0
Harper (III)	1.4	1.8	1.8	2.0
Zane	1.5	2.1	1.7	1.5
Sparks (IV)	2.6	2.6	2.6	3.0
Williams 82	1.8	2.0	2.0	2.0
A84-381009	2.0	2.2	2.5	3.5
A84-381014	2.8	2.8	3.1	4.5
A84-381021	2.1	2.3	2.5	2.0
A84-381026	2.7	3.5	2.7	4.0
A84-381030	2.6	2.5	2.8	4.0
A84-382002	1.5	2.1	2.1	2.0
A84-382009	1.9	2.2	2.1	2.0
A84-382010	2.4	2.1	2.2	4.0
A84-382015	1.8	1.9	1.8	2.5
A84-382028	2.5	2.0	2.5	4.5
A84-383005	2.9	2.6	2.5	4.5
A84-383015	1.7	1.9	2.0	1.5
A84-383018	2.5	2.7	2.6	5.0
A84-383019	1.9	2.1	2.0	1.5
A84-384017	2.1	2.1	2.2	3.0
HM8470	1.6	2.3	2.0	2.0
HM8471	1.4	1.7	1.8	1.0
HM8472	1.4	2.0	2.0	1.0
HM8473	1.4	1.9	2.2	1.0
HM8481	1.6	1.9	1.9	1.5
HM8482	2.1	1.9	2.3	2.0
HM8486	1.3	1.9	2.1	1.5
HM8490	2.1	1.9	2.0	2.5
HM8494	2.1	2.0	2.1	2.0
HM8497	2.3	2.3	2.4	3.0
K1116	1.7	1.9	1.8	2.5
U80-68004	2.4	2.2	2.1	5.0
U80-68130	1.7	2.0	2.1	3.0
U81-65007	2.3	2.1	2.0	4.0
U82-65123	1.8	1.8	1.8	3.5
U82-67005	2.4	2.1	2.2	4.5
U82-67014	1.9	1.9	1.8	3.5
U82-69128	1.5	1.8	2.0	1.5
U82-70024	2.7	2.4	2.4	4.0
U82-70033	2.4	2.4	2.2	4.5

PRELIMINARY TEST IIIA, 1985
LODGING (Score)

Lafayette IN	Manhattan KS	Mead NE	Hoytville OH	S. Charleston OH	Elk Point SD
1.0	1.0	1.0	1.2	1.5	2.0
1.0	1.0	1.3	1.3	1.0	1.0
1.3	1.5	1.0	1.2	1.0	2.5
2.8	2.5	2.3	2.0	2.5	3.0
1.0	2.0	2.0	1.5	1.5	2.5
1.3	2.0	2.0	1.3	1.8	1.5
2.5	2.0	3.5	1.4	2.8	3.0
1.8	2.0	2.0	1.4	2.2	3.0
2.5	2.0	3.3	1.4	3.0	1.5
1.8	2.5	2.5	2.0	3.2	2.0
1.0	1.0	1.3	1.4	1.8	1.0
1.3	2.0	2.0	1.8	2.0	1.5
2.3	2.0	2.3	1.8	2.2	2.5
1.5	1.5	2.5	1.3	1.8	1.5
1.8	2.5	3.5	1.3	2.2	2.0
3.3	2.8	3.8	1.4	3.0	2.0
1.0	1.5	2.3	1.3	1.5	2.0
1.8	2.5	2.8	1.3	1.8	2.0
2.0	2.0	1.8	1.6	1.5	2.5
1.5	2.0	2.5	1.5	1.5	3.0
1.0	1.5	1.0	1.5	1.5	2.0
1.0	1.0	1.0	1.3	1.5	2.0
1.0	1.0	1.0	1.4	1.5	1.5
1.3	1.0	1.3	1.3	1.5	1.5
1.8	1.0	1.0	1.4	2.0	2.0
2.3	1.5	3.3	1.4	2.0	2.0
1.0	1.0	1.0	1.3	1.0	1.0
2.5	2.0	2.0	1.5	2.2	2.0
2.0	3.0	2.0	1.9	2.2	2.0
2.3	3.0	1.5	1.7	2.2	2.0
1.3	1.5	1.3	1.3	1.5	2.0
1.8	2.0	1.8	1.3	3.0	2.5
1.0	2.0	1.5	1.3	1.2	1.5
2.3	1.5	2.3	1.6	2.8	2.0
1.8	1.0	1.8	1.4	1.8	1.5
2.3	2.0	2.8	1.4	1.5	2.5
1.5	2.0	2.0	1.3	1.2	2.0
1.0	1.0	1.3	1.3	1.8	2.0
2.8	2.5	3.3	1.9	2.5	2.5
2.0	3.0	3.0	1.4	1.8	1.5

PRELIMINARY TEST IIIA, 1985
PLANT HEIGHT (Inches)

Strain	Mean 9 Tests	Ottumwa IA	Stuart IA	Urbana IL
Century 84 (II)	35	40	36	39
Harper (III)	35	40	36	39
Zane	36	41	38	40
Sparks (IV)	45	48	44	49
Williams 82	42	44	40	44
A84-381009	37	42	37	42
A84-381014	39	44	43	43
A84-381021	41	46	42	46
A84-381026	39	45	40	44
A84-381030	39	42	42	41
A84-382002	33	38	33	36
A84-382009	39	44	42	43
A84-382010	41	39	43	44
A84-382015	37	44	40	41
A84-382028	39	42	40	43
A84-383005	41	47	42	43
A84-383015	40	41	42	43
A84-383018	39	43	42	44
A84-383019	43	47	44	47
A84-384017	41	43	43	44
HM8470	37	40	36	43
HM8471	36	41	36	41
HM8472	37	42	37	42
HM8473	35	40	36	39
HM8481	40	42	41	46
HM8482	39	38	42	40
HM8486	35	37	37	38
HM8490	42	43	43	46
HM8494	44	44	44	47
HM8497	43	48	44	48
K1116	41	46	41	46
U80-68004	41	42	42	44
U80-68130	37	42	39	41
U81-65007	40	44	43	43
U82-65123	38	40	38	41
U82-67005	41	42	41	47
U82-67014	40	42	44	43
U82-69128	35	40	37	41
U82-70024	42	45	44	46
U82-70033	40	44	42	44

PRELIMINARY TEST IIIA, 1985
PLANT HEIGHT (Inches)

Lafayette IN	Manhattan KS	Mead NE	Hoytville OH	S. Charleston OH	Elk Point SD
34	29	37	27	34	37
32	35	37	28	34	32
32	37	40	30	32	38
43	45	51	39	43	42
40	45	44	37	39	41
37	38	39	27	33	34
36	40	45	28	29	39
38	43	47	34	34	42
36	43	44	31	36	36
38	41	40	31	33	39
32	34	35	28	32	32
37	42	42	32	36	35
40	41	47	34	36	43
35	40	42	27	32	34
40	40	45	31	34	39
41	45	46	32	35	38
38	40	43	33	37	42
37	40	42	32	37	38
41	43	48	35	39	42
39	41	43	36	41	43
35	37	38	31	35	39
35	35	37	30	32	39
34	37	32	29	34	36
34	36	37	27	32	37
40	38	41	31	37	40
38	40	44	32	36	39
35	33	38	30	31	33
41	42	46	33	38	42
44	47	50	38	40	42
41	42	47	35	40	42
39	42	43	32	38	41
40	42	46	33	39	42
34	40	40	27	33	38
38	39	47	32	37	41
38	39	41	31	36	39
40	46	45	30	33	42
36	41	49	30	35	40
32	35	39	28	30	36
42	41	46	33	41	43
38	44	41	32	34	35

PRELIMINARY TEST IIIA, 1985
SEED QUALITY (Score)

Strain	Mean 8 Tests	Ottumwa IA	Stuart IA	Urbana IL
Century 84 (II)	2.1	2.4		1.8
Harper (III)	1.8	2.6		1.5
Zane	2.0	2.6		1.5
Sparks (IV)	2.2	2.7		1.7
Williams 82	1.7	1.8		1.1
A84-381009	2.0	2.3		1.5
A84-381014	2.0	2.5		1.8
A84-381021	2.0	2.4		1.5
A84-381026	2.0	2.4		1.1
A84-381030	1.9	2.3		1.8
A84-382002	2.3	2.3		1.5
A84-382009	1.8	2.1		1.3
A84-382010	1.8	2.3		1.3
A84-382015	2.0	2.4		1.3
A84-382028	2.3	2.6		1.5
A84-383005	2.1	2.5		1.7
A84-383015	2.0	2.3		1.5
A84-383018	1.9	2.4		1.5
A84-383019	2.1	2.2		1.7
A84-384017	1.8	2.3		1.5
HM8470	1.8	2.4		1.3
HM8471	1.7	2.1		1.3
HM8472	1.5	2.2		1.3
HM8473	1.7	2.3		1.1
HM8481	1.6	1.8		1.3
HM8482	2.1	2.6		1.8
HM8486	1.6	2.2		1.3
HM8490	1.9	2.5		1.8
HM8494	2.0	2.6		1.5
HM8497	1.9	2.5		1.5
K1116	1.9	2.4		1.8
U80-68004	1.7	2.3		1.8
U80-68130	2.0	2.5		1.8
U81-65007	2.3	2.5		2.0
U82-65123	2.0	2.2		1.8
U82-67005	1.8	2.1		1.1
U82-67014	2.3	2.6		2.0
U82-69138	2.6	2.4		2.9
U82-70024	1.8	2.2		1.3
U82-70033	1.8	2.5		1.3

PRELIMINARY TEST IIIA, 1985
SEED QUALITY (Score)

Lafayette IN	Manhattan KS	Mead NE	Hoytville OH	S. Charleston OH	Elk Point SD
2.0	2.5	1.3	2.0	2.5	2.0
2.5	1.5	1.5	1.5	1.5	2.0
2.0	3.0	1.3	2.0	1.5	2.0
3.0	2.5	1.5	2.0	1.5	3.0
2.0	2.0	1.0	2.0	1.0	3.0
2.5	2.0	1.3	1.5	2.0	3.0
2.0	2.0	1.5	1.5	1.5	3.0
2.5	2.0	1.0	2.0	1.5	3.0
2.0	2.5	1.3	2.0	1.5	3.0
2.0	2.5	1.0	2.0	1.5	2.0
3.0	3.0	1.5	1.5	1.5	4.0
2.0	2.0	1.0	1.5	1.5	3.0
2.0	2.0	1.0	1.5	1.5	3.0
3.0	2.0	1.5	2.0	1.5	2.0
3.5	3.0	1.5	1.5	1.5	3.0
2.5	2.0	1.3	2.0	1.5	3.0
2.0	2.0	1.3	2.0	1.5	3.0
2.5	2.0	1.3	1.0	1.5	3.0
3.0	2.0	1.5	2.0	1.0	3.0
2.0	2.0	1.3	1.5	1.0	3.0
2.0	2.0	1.3	1.5	1.5	2.0
2.5	2.0	1.5	1.5	1.0	2.0
2.0	1.5	1.0	1.0	1.0	2.0
2.5	1.5	1.0	1.5	1.5	2.0
2.0	2.0	1.0	1.0	1.0	3.0
2.0	3.0	1.5	1.0	2.5	2.0
2.0	1.5	1.0	1.0	1.5	2.0
2.0	2.5	1.5	1.5	1.5	2.0
2.0	2.5	1.5	2.0	2.0	2.0
2.0	2.0	1.5	2.0	1.5	2.0
3.0	2.0	1.5	1.0	1.5	2.0
2.0	2.0	1.3	1.0	1.5	2.0
2.5	2.0	1.5	1.5	1.5	3.0
2.5	2.5	1.5	2.0	3.5	2.0
2.0	2.5	1.3	2.0	2.0	2.0
1.5	2.0	1.5	1.5	2.0	3.0
2.5	2.5	1.5	2.5	3.0	2.0
3.0	3.0	1.5	2.5	3.5	2.0
2.5	2.0	1.3	1.0	1.0	3.0
2.0	2.5	1.3	1.0	1.0	3.0

PRELIMINARY TEST IIIA, 1985
SEED SIZE (g/100)

Strain	Mean 8 Tests	Ottumwa IA	Stuart IA	Urbana IL
Century 84 (II)	19.7	19.8		20.1
Harper (III)	20.5	21.5		21.1
Zane	21.7	22.2		24.4
Sparks (IV)	18.2	18.4		20.2
Williams 82	18.0	18.3		19.0
A84-381009	17.4	17.8		18.1
A84-381014	16.8	16.1		17.3
A84-381021	16.4	16.8		17.2
A84-381026	15.3	14.7		15.7
A84-381030	20.3	20.3		22.2
A84-382002	19.9	20.0		20.2
A84-382009	17.2	17.7		18.0
A84-382010	17.0	16.9		18.2
A84-382015	20.4	20.7		22.4
A84-382028	19.5	19.9		19.3
A84-383005	15.6	15.9		15.5
A84-383015	18.1	17.1		18.3
A84-383018	15.6	15.0		15.0
A84-383019	17.9	17.8		18.7
A84-384017	17.9	18.0		17.9
HM8470	17.2	16.7		18.5
HM8471	16.5	16.4		18.2
HM8472	16.9	15.8		18.8
HM8473	16.7	16.1		17.8
HM8481	16.7	16.1		19.0
HM8482	19.8	20.8		21.9
HM8486	19.6	19.7		21.4
HM8490	19.5	19.6		20.5
HM8494	15.4	15.9		16.2
HM8497	15.6	16.2		17.3
K1116	18.5	18.4		20.9
U80-68004	17.0	15.5		15.8
U80-68130	19.5	20.0		20.7
U81-65007	20.4	21.0		22.9
U82-65123	21.6	22.5		23.1
U82-67005	17.4	17.0		16.7
U82-67014	20.6	20.8		21.9
U82-69128	22.9	23.8		25.7
U82-70024	17.3	18.0		17.9
U82-70033	17.1	18.0		18.7

PRELIMINARY TEST IIIA, 1985
SEED SIZE (g/100)

Lafayette IN	Manhattan KS	Mead NE	Hoytville OH	S. Charleston OH	Elk Point SD
19.4	20.1	21.1	19.3	19.8	18.3
20.5	21.3	20.9	19.2	21.7	18.0
22.0	21.3	22.6	18.3	21.4	21.2
18.3	18.1	17.8	18.6	20.5	13.6
17.8	19.6	18.8	18.3	17.7	14.7
18.1	16.2	18.0	15.6	18.4	17.0
18.2	17.2	17.9	15.6	16.9	15.5
16.0	17.1	16.8	15.4	16.6	15.2
14.9	16.3	16.9	13.9	16.0	14.3
21.1	20.1	21.4	19.5	19.8	18.0
21.4	20.3	21.6	17.0	19.9	19.0
17.7	17.2	18.8	15.7	16.5	16.0
17.9	18.1	17.7	15.2	16.7	15.5
20.8	19.9	21.1	18.2	21.0	18.9
19.7	22.0	20.2	18.0	20.6	16.5
15.6	17.8	16.7	13.6	15.3	14.6
17.1	18.8	19.6	17.8	19.5	16.8
15.7	16.2	16.6	14.5	16.9	15.0
17.3	18.9	18.4	16.9	17.9	17.6
17.5	18.1	18.2	16.6	20.5	16.3
16.4	16.8	18.5	16.6	17.6	16.4
16.2	15.6	18.1	16.6	17.0	15.6
16.5	17.1	18.4	16.5	17.2	15.1
17.3	16.8	17.8	16.3	17.8	13.7
17.1	16.3	17.9	15.8	17.3	14.2
19.9	19.0	19.1	17.7	20.7	19.0
19.5	18.5	21.4	18.5	20.4	17.2
19.1	19.0	21.6	18.1	19.9	18.2
14.5	15.9	17.0	13.7	15.1	15.2
15.1	14.4	16.1	14.9	15.6	15.2
16.5	19.1	20.2	16.7	18.9	17.3
18.5	17.0	18.7	16.3	16.3	17.8
19.7	17.3	21.1	18.9	20.4	17.5
20.8	18.2	21.4	19.1	20.0	19.7
22.0	22.0	22.5	20.6	20.9	19.5
17.6	19.4	17.9	16.3	19.0	15.6
20.1	19.4	21.7	18.8	21.2	20.5
21.8	20.8	24.7	20.3	22.1	23.0
16.7	18.7	17.1	15.9	18.9	14.9
17.1	16.7	17.6	16.2	18.5	14.3

PRELIMINARY TEST IIIA, 1985
PROTEIN (%)

Strain	Mean 5 Tests	Ottumwa IA	Urbana IL	Lafayette IN	Manhattan KS	S. Charleston OH
Century 84 (II)	43.2	42.0	44.6	43.5	42.5	43.4
Harper (III)	40.8	40.8	40.7	41.8	39.9	41.0
Zane	39.1	38.7	38.9	40.1	38.6	39.3
Sparks (IV)	40.5	39.5	40.1	42.0	40.2	40.6
Williams 82	41.6	40.5	41.0	43.3	41.6	41.7
A84-381009	40.3	39.3	41.5	41.6	39.8	39.2
A84-381014	38.4	37.3	38.7	40.1	38.1	37.6
A84-381021	39.2	38.0	39.1	41.0	38.5	39.5
A84-381026	39.5	38.6	39.4	41.5	38.8	39.3
A84-381030	40.7	39.3	40.8	42.1	40.7	40.6
A84-382002	40.1	39.5	40.5	41.8	39.3	39.2
A84-382009	38.5	37.4	38.2	40.3	38.0	38.8
A84-382010	40.6	38.8	40.8	42.3	40.7	40.6
A84-382015	40.1	39.3	40.1	40.9	39.6	40.7
A84-382028	41.6	41.2	42.0	42.8	41.3	40.8
A84-383005	40.5	40.5	40.4	41.4	40.0	40.2
A84-383015	40.2	39.5	39.8	41.3	40.5	39.9
A84-383018	39.2	38.2	39.2	41.0	38.1	39.3
A84-383019	41.2	41.6	40.3	42.0	40.5	41.6
A84-384017	40.3	40.1	39.6	40.9	39.8	40.9
HM8470	41.6	41.8	41.4	42.5	40.8	41.6
HM8471	41.1	40.0	41.4	42.7	40.1	41.5
HM8472	41.2	40.8	40.3	42.4	40.9	41.5
HM8473	40.5	40.0	40.6	41.5	39.7	40.5
HM8481	41.9	41.9	42.2	42.5	41.1	41.8
HM8482	38.4	36.3	39.6	39.2	39.3	37.8
HM8486	41.4	41.3	41.3	43.1	40.0	41.2
HM8490	42.0	40.6	41.5	43.3	41.4	43.4
HM8494	39.7	39.1	39.9	40.2	39.4	39.8
HM8497	39.5	39.3	39.7	40.3	38.7	39.6
K1116	43.2	42.2	42.2	45.6	42.4	43.4
U80-68004	37.9	35.6	37.5	39.8	37.6	39.1
U80-68130	39.8	39.7	39.6	41.0	38.5	40.4
U81-65007	40.3	38.3	40.6	41.5	39.9	41.3
U82-65123	41.1	40.8	42.2	41.6	40.3	40.5
U82-67005	40.0	39.7	39.0	41.3	39.5	40.4
U82-67014	39.5	38.9	39.1	40.2	38.2	41.3
U82-69128	40.2	39.2	40.1	41.4	40.6	39.9
U82-70024	39.5	38.8	40.0	39.8	39.1	39.8
U82-70033	39.8	39.6	39.8	40.2	39.4	39.9

PRELIMINARY TEST IIIA, 1985
OIL (%)

Mean 5 Tests	Ottumwa IA	Urbana IL	Lafayette IN	Manhattan KS	S. Charleston OH
20.6	21.1	19.7	21.0	20.8	20.2
22.0	21.7	22.0	21.1	23.1	22.2
23.3	23.5	23.5	22.9	24.1	22.7
21.6	22.3	21.3	21.2	21.8	21.3
21.6	22.3	21.6	20.6	22.1	21.4
22.6	22.6	21.5	22.2	23.4	23.2
22.7	23.3	22.3	21.8	23.1	23.0
22.5	22.8	22.2	21.6	23.3	22.8
21.6	21.7	22.2	20.8	22.1	21.4
22.0	23.4	21.3	20.9	22.5	22.0
21.3	21.9	20.4	20.5	22.1	21.4
22.5	22.9	22.4	22.4	22.8	21.9
21.3	22.4	21.2	20.6	21.2	21.3
21.6	21.8	21.8	20.4	22.9	20.9
21.4	21.2	21.5	21.0	22.3	20.9
21.2	21.8	20.7	20.8	22.0	20.8
21.2	21.8	20.7	20.6	21.9	21.1
22.0	22.8	21.8	21.2	22.9	21.2
20.9	20.8	20.7	21.0	21.3	20.6
21.7	21.8	21.8	21.1	22.9	20.9
21.7	21.3	22.1	21.5	22.4	21.4
21.9	22.4	21.4	21.5	22.3	21.9
21.8	21.9	21.5	21.2	22.4	22.1
22.0	22.0	21.7	21.6	22.7	21.9
21.8	22.1	21.0	22.1	22.4	21.3
22.8	23.1	22.8	21.7	23.4	23.1
22.5	22.0	23.2	22.1	23.4	21.9
21.8	22.9	21.0	21.2	23.0	21.1
22.1	23.0	21.5	21.5	23.1	21.2
22.0	22.0	22.1	21.7	23.1	21.1
20.6	21.5	20.3	19.3	21.3	20.4
23.8	24.3	24.1	23.0	24.7	23.0
21.3	21.2	21.0	20.9	23.1	20.2
21.8	23.2	21.3	21.2	22.9	21.3
21.5	21.9	21.1	20.9	22.5	21.1
21.3	22.1	21.4	20.2	22.8	20.1
22.6	23.2	21.6	22.8	23.5	21.9
22.3	22.5	22.4	22.1	22.6	22.1
21.6	22.2	21.5	21.3	22.6	20.2
21.8	22.8	21.1	21.6	22.4	20.9

PRELIMINARY TEST IIIB, 1985

Strain	Parentage	Generation Composited
Century 84 (II)	Century[5] x Williams 82	BC_4F_4
Harper (III)	Unknown	F_4
Zane	Cumberland x Pella	F_5
Sparks (IV)	Williams x Calland	F_6
Williams 82	Williams[7] x Kingwa	$4BC_8F_3$
C1661	L70L-3048 x Hardin	F_5
C1667	Williams 82 x CX750-82	F_6
C1680	Hobbit x Amcor	F_6
C1681	Hobbit x Amcor	F_6
C1687	Amcor x CX663-37-2-2	F_6
CPRX73BC5-57G	Oakland[6] x PRX12-305	BC_5F_3
LN82-477	Sparks x Century	F_5
LN82-3199	Williams 82 x Hardin	F_5
LN82-5154	Williams 82 x U37219	F_5
LN82-6159	K74-104-76-205 x Century	F_5
LN82-6400	K74-104-76-205 x L73-4673	F_5
LS81-E695	Franklin x AP14-027-2	F_4
Md81-0942	A75-305022 x Elf	F_5
Hobbit	Williams x Ransom	F_5
C1669	Hobbit x CX663-37-2-2	F_6
C1671	Hobbit x K1048	F_6
C1672	Hobbit x K1048	F_6
C1675	Hobbit x Lakota	F_6
C1677	Hobbit x Lakota	F_6
C1682	K1048 x CX663-37-2-2	F_6
C1684	M70-128 x CX663-37-2-2	F_6
HC79-1630	L72U2567 x Ransom	F_5
HC79-4085	Elf x L74D-678	F_5
HC80-586	HC74-3400 x Sprite	F_5
HC80-587	HC74-3400 x Sprite	F_5
HC80-590	HC74-3400 x Sprite	F_5
HC80-592	HC74-3400 x Sprite	F_5
HC80-595	HC74-3400 x Sprite	F_5
HC81-3975	HC74-3400 x Sprite	F_5
HC81-4011	HC74-3400 x Gnome	F_5
HC81-4101	Gnome x Sprite	F_5
HC82-5210	Hodgson x L74D-619	F_5
HC82-9700	Elf x Gnome	F_5
HC82-9717	Elf x Gnome	F_5
HC82-9720	Elf x Gnome	F_5

PRELIMINARY TEST IIIB, 1985

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score	Shattering Score	BSR	DM	BSR	
					Urbana		Plant N	Stem N
			Ames	Manhattan	---Score--		%	%
Century 84 (II)	PTBSYBl	I	3.5	1.0	4.0	1.5	100	97.3
Harper (III)	PTBSYBl	I	4.7	1.0	3.0	1.5	100	60.4
Zane	PGBDYBf	I	3.7	1.0	2.0	2.0	100	63.7
Sparks (IV)	WTTSYBl	I	3.2	1.0	2.0	2.0	100	70.0
Williams 82	WTTSYBl	I	3.8	1.0	1.5	2.0	100	72.1
C1661	WGBDYBf	I	4.2	1.0	5.0	1.0	100	80.6
C1667	WTTSYBl	I	3.7	1.0	3.0	1.5	100	71.1
C1680	WGBSYY	I	3.0	1.0	1.5	1.5	100	72.4
C1681	WGTSYBf	I	3.0	2.0	2.5	1.0	100	81.3
C1687	PGBSYBf+Ib	I	2.2	1.0	3.0	1.5	100	82.1
CPRX73BC5-57G	PGBDYIb	I	4.7	1.0	2.0	1.5	100	79.8
LN82-477	WTTDYBl	I	3.3	1.0	2.0	1.5	80	44.7
LN82-3199	WTTSYY	I	3.8	1.0	2.5	1.0	100	76.4
LN82-5154	WTBDYBl	I	3.3	1.0	1.3	2.0	100	56.4
LN82-6159	PTBDYBl+Ib	I	4.3	1.0	1.0	2.0	100	63.9
LN82-6400	WTTDYBl	I	4.5	1.0	2.5	2.0	100	72.2
LS81-E695	PTBSYBl	I	3.3	1.0	3.0	2.5	100	77.5
Md81-0942	PTBSYBr	I	3.3	1.0	2.0	1.0	100	80.7
Hobbit	WTTY	D	3.3	1.0	1.5	1.0	90	67.2
C1669	WTTSYBl	D	4.3	1.0	1.5	1.5	70	29.0
C1671	WTTSYBl	D	2.7	1.0	3.0	1.5	100	80.9
C1672	P+WTTDYBl	D	3.2	1.0	2.0	1.0	100	47.1
C1675	WTTSYBl	D	2.8	1.0	3.5	2.0	50	39.6
C1677	PTTSYBl	D	3.2	1.0	3.0	3.0	70	27.5
C1682	PGTSYIb	D	3.0	1.0	2.5	2.0	60	28.4
C1684	PTTDYBl	D	2.2	1.0	2.0	1.0	10	1.4
HC79-1630	PTTSYBl	D	3.0	1.0	1.5	1.0	60	27.3
HC79-4085	PTTSYBl	D	4.2	1.0	3.0	1.0	60	54.6
HC80-586	P+WTTSYBl	D	3.0	1.0	2.5	1.0	100	48.5
HC80-587	WTTSYBl	D	4.0	1.0	3.0	2.0	100	65.6
HC80-590	P+WTBSYBl	D	3.3	1.0	3.0	1.0	100	69.2
HC80-592	WTBSYBl	D	3.5	1.0	2.0	1.0	80	55.2
HC80-595	WTBSYBl	D	3.8	1.0	3.0	1.0	80	52.2
HC81-3975	WTBSYBl	D	3.5	1.0	3.0	1.0	90	65.8
HC81-4011	PTTSYBl	D	3.0	1.0	1.5	1.0	70	40.0
HC81-4101	WTTSYBl	D	3.5	1.0	2.0	2.0	86	60.8
HC82-5210	PTTSYBl	D	3.8	1.0	2.0	1.0	90	56.8
HC82-9700	PTTSYBl	D	3.3	1.0	1.5	1.0	100	78.4
HC82-9717	PTTSYBl	D	3.5	1.0	1.5	1.0	100	92.9
HC82-9720	PTTSYBl	D	4.2	1.0	1.5	1.0	100	99.1

PRELIMINARY TEST IIIB, 1985

DISEASE DATA

Strain	PR			PS	PSB	SMV	Germ
	Ames	Lafayette	Vickery	Lafayette			
	Race4	Race1	Tolerance	a	n	a	
	--Reaction--		Score	%	%	Score	%
Century 84 (II)	R	S	3.0	40	16	4E	80
Harper (III)	S	S	2.9	13	2	5E	90
Zane	S	H	3.1	54	10	4E	86
Sparks (IV)	S	R	2.6	30	20	5E	82
Williams 82	R	R	2.4	19	10	4E	84
C1661	S	S	2.6	85	12	4M	86
C1667	R	R	2.3	22	2	5M	94
C1680	S	H	3.5	47	2	5E	94
C1681	S	R	2.4	42	10	4M	84
C1687	R	R	3.5	50	4	3E	92
CPRX73BCs-57G	S	R	2.8	39	4	4E	90
LN82-477	R	R	2.8	30	10	5E	84
LN82-3199	R	R	2.6	25	12	5E	76
LN82-5154	S	R	3.1	25	4	5E	88
LN82-6159	R	R	2.1	9	4	5E	92
LN82-6400	R	R	2.8	25	4	5M	94
LS81-E695	S	R	3.1	10	16	1	76
Md81-0942	S	S	2.9	30	8	1	80
Hobbit	S	S	3.4	8	2	1	90
C1669	R	R	3.0	21	4	2E	96
C1671	S	S	3.3	11	4	4E	96
C1672	S	S	3.5	6	0	5E	98
C1675	S	R	3.3	4	4	4E	92
C1677	S	S	2.5	2	2	5E	90
C1682	H	S	3.5	26	8	5E	88
C1684	R	R	3.1	5	0	5E	72
HC79-1630	S	S	3.0	2	0	1	98
HC79-4085	S	S	3.9	16	0	4M	92
HC80-586	S	S	2.9	15	2	2M	96
HC80-587	S	S	2.8	33	2	1	94
HC80-590	S	S	2.6	28	2	2M	94
HC80-592	S	S	3.1	32	6	2M	86
HC80-595	S	S	3.3	26	6	2M	86
HC81-3975	S	S	2.8	25	2	1	92
HC81-4011	S	S	3.3	17	4	4E	96
HC81-4101	S	S	2.8	14	0	3M	94
HC82-5210	S	S	3.4	1	2	5M	98
HC82-9700	S	S	3.9	20	0	4M	92
HC82-9717	S	S	4.0	20	0	5E	98
HC82-9720	S	S	3.8	7	0	4M	96

PRELIMINARY TEST IIIB, 1985
Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	8	8	8	9	9	8	8	5	5
	bu/a	No.	Date	Score	In	Score	g/100	%	%
Century 84 (II)	48.5	28	-6.3	1.4	35	2.1	19.6	43.9	20.2
Harper (III)	54.0	2	9-27.5	1.5	35	1.8	19.9	41.5	21.1
Zane	51.7	11	-3.5	1.5	35	2.1	21.3	40.6	22.5
Sparks (IV)	48.5	28	+6.5	2.5	44	2.1	17.7	41.3	21.2
Williams 82	48.1	33	+6.0	1.8	39	1.8	17.0	42.6	20.8
C1661	50.4	19	+3.5	2.0	38	2.5	15.8	39.1	22.9
C1667	47.4	38	+3.8	1.7	40	1.9	17.5	42.4	21.2
C1680	51.1	15	+1.8	1.4	39	1.9	17.7	39.0	21.5
C1681	50.7	16	+4.8	1.9	45	1.9	17.6	38.2	22.7
C1687	48.5	28	+1.3	2.4	40	2.1	17.1	41.2	21.8
CPRX73BCs-57G	47.7	36	+4.4	2.1	41	2.1	18.9	41.8	21.4
LN82-477	51.4	13	+1.9	1.9	40	1.9	19.1	42.1	21.0
LN82-3199	49.0	24	+5.8	2.7	42	2.6	18.5	43.8	20.1
LN82-5154	48.9	26	+0.8	1.9	38	2.1	20.0	42.7	20.7
LN82-6159	48.1	33	+6.5	2.3	41	1.9	17.0	42.8	19.9
LN82-6400	48.1	33	+4.8	2.2	39	2.0	17.4	42.3	21.3
LS81-E695	36.4	40	+3.1	2.6	37	2.0	15.5	41.4	20.6
Md81-0942	50.7	16	+3.5	1.8	36	2.0	17.0	40.8	22.3
Hobbit	56.0	1	+1.5	1.4	26	1.6	17.5	40.2	22.2
C1669	53.0	8	+0.6	1.5	26	1.7	19.1	41.0	21.4
C1671	49.8	21	+4.4	1.8	33	2.0	16.6	38.0	22.3
C1672	48.4	32	+5.3	1.4	31	1.9	15.3	40.0	22.1
C1675	51.2	14	+2.4	1.3	28	1.8	15.2	42.4	21.2
C1677	50.0	20	+6.5	1.6	28	1.7	15.7	43.3	20.8
C1682	49.5	23	+6.0	1.9	32	2.0	16.3	43.1	19.4
C1684	49.7	22	+5.3	1.5	29	1.8	15.7	44.0	19.3
HC79-1630	49.0	24	+4.9	1.2	24	2.0	16.2	41.8	21.8
HC79-4085	51.5	12	+5.3	1.2	25	2.1	17.0	41.1	21.2
HC80-586	53.9	4	+5.5	1.2	24	1.6	20.3	40.7	22.4
HC80-587	53.9	4	+4.5	1.2	25	1.5	18.7	40.5	22.6
HC80-590	52.1	10	+5.5	1.2	25	1.7	19.7	41.4	22.6
HC80-592	54.0	2	+6.3	1.3	27	1.5	19.5	40.8	22.6
HC80-595	50.7	16	+4.4	1.3	25	1.7	20.0	39.7	22.9
HC81-3975	53.5	6	+2.6	1.3	26	1.7	19.7	40.7	23.1
HC81-4011	52.6	9	+2.9	1.4	27	1.5	19.6	42.0	22.0
HC81-4101	53.1	7	+4.1	1.3	27	1.4	21.5	41.8	21.9
HC82-5210	48.9	26	+3.0	1.3	25	1.7	15.4	42.3	20.6
HC82-9700	46.9	39	+1.0	1.2	25	1.7	17.8	42.1	21.2
HC82-9717	47.6	37	+1.6	1.2	24	1.5	15.9	42.0	20.6
HC82-9720	48.5	28	+3.6	1.2	24	1.5	15.4	41.5	20.9

* 138 Days After Planting

PRELIMINARY TEST IIIB, 1985
YIELD (bu/a)

Strain	Mean 8 Tests	Ottumwa IA	Stuart IA	Urbana IL
Century 84 (II)	48.5	45.9	44.8	64.3
Harper (III)	54.0	53.7	51.4	68.4
Zane	51.7	52.9	51.2	71.8
Sparks (IV)	48.5	50.6	40.1	68.6
Williams 82	48.1	40.7	38.7	69.8
C1661	50.4	46.2	44.6	64.3
C1667	47.4	42.0	39.9	61.1
C1680	51.1	48.0	42.3	73.2
C1681	50.7	42.9	39.3	74.6
C1687	48.5	43.6	47.0	74.0
CPRX73BC5-57G	47.7	44.6	39.5	64.9
LN82-477	51.4	51.7	49.1	73.8
LN82-3199	49.0	45.8	41.8	64.9
LN82-5154	48.9	48.6	45.4	69.7
LN82-6159	48.1	47.8	37.4	73.3
LN82-6400	48.1	49.0	38.9	65.7
LS81-E695	36.4	33.3	29.6	46.1
Md81-0942	50.7	50.6	44.3	68.8
Hobbit	56.0	60.6	52.5	71.1
C1669	53.0	56.7	52.2	70.5
C1671	49.8	49.5	44.7	65.0
C1672	48.4	48.5	37.7	66.3
C1675	51.2	48.8	47.8	65.8
C1677	50.0	47.6	42.5	64.7
C1682	49.5	46.0	39.9	70.4
C1684	49.7	45.1	43.2	69.5
HC79-1630	49.0	51.8	43.6	64.1
HC79-4085	51.5	52.5	43.4	64.3
HC80-586	53.9	54.4	46.7	67.9
HC80-587	53.9	54.5	47.1	66.9
HC80-590	52.1	56.1	46.6	69.2
HC80-592	54.0	51.5	45.2	74.2
HC80-595	50.7	55.8	49.7	60.7
HC81-3975	53.5	55.0	48.5	69.2
HC81-4011	52.6	54.2	45.0	67.1
HC81-4101	53.1	48.8	44.0	68.9
HC82-5210	48.9	47.3	44.8	63.6
HC82-9700	46.9	47.4	42.6	70.3
HC82-9717	47.6	48.2	42.6	55.9
HC82-9720	48.5	46.5	41.6	74.6
C.V. (%)		5.6	5.4	7.2
L.S.D. (5%)		5.5	4.7	9.8
Row Sp. (In.)		27	27	30
Rows/Plot		4	4	4
Reps		2	2	2

* NOT INCLUDED IN THE MEAN

PRELIMINARY TEST IIIB, 1985
YIELD (bu/a)

Lafayette IN	Manhattan KS	Mead NE	Hoytville OH	S. Charleston OH	*Elk Point SD
45.6	35.4	57.3	53.3	41.6	36.4
61.4	34.0	52.9	47.3	63.1	35.5
48.4	36.6	55.7	44.0	53.3	33.7
50.9	28.6	42.3	55.2	52.0	24.2
51.6	30.0	45.5	50.8	57.9	27.1
52.3	38.2	55.6	48.0	54.3	38.6
50.9	27.5	48.2	57.3	52.1	28.3
58.1	35.2	51.2	45.4	55.6	30.1
51.6	34.3	51.1	53.6	57.8	37.7
51.4	27.0	45.5	46.8	52.9	26.4
53.7	33.4	44.0	48.8	52.5	26.7
54.6	33.4	48.5	44.6	55.7	32.1
53.4	33.1	44.6	52.7	56.0	22.6
52.4	31.1	46.9	46.9	50.2	33.9
56.3	30.1	41.8	52.3	45.8	29.9
51.2	35.3	48.7	46.5	49.1	35.3
40.9	28.7	35.3	35.5	42.0	22.6
63.6	31.6	53.3	47.6	45.7	35.4
54.3	35.4	65.0	53.8	55.1	34.0
56.0	38.2	62.1	50.7	37.9	26.3
54.3	39.2	57.9	49.1	39.0	32.3
62.7	33.8	48.1	45.3	45.0	24.8
58.2	34.2	56.7	45.2	52.5	32.0
60.4	38.4	51.7	48.2	46.2	25.9
59.8	36.4	49.8	41.2	52.1	32.0
57.8	34.5	47.4	49.2	51.1	18.6
55.6	35.2	52.8	47.4	41.5	24.2
62.7	37.5	54.0	43.7	54.2	29.2
56.4	39.1	60.9	48.0	57.8	28.2
58.3	37.8	59.1	50.5	56.8	36.2
54.3	38.0	53.8	48.1	50.4	34.3
55.6	37.8	57.1	51.4	59.1	27.9
51.4	39.8	58.6	42.6	47.3	20.6
56.7	36.7	59.2	50.8	52.1	33.7
58.9	39.6	54.3	44.5	57.5	36.1
57.7	37.4	55.4	52.8	60.1	37.3
54.1	41.5	47.7	45.0	46.8	27.6
47.5	37.8	50.3	43.6	35.5	26.2
58.2	32.4	51.1	45.3	46.8	26.4
55.3	28.8	52.4	33.5	55.0	31.2
6.4	8.7	-	13.7	-	22.8
5.8	6.2	-	N.S.	-	N.S.
24	30	30	30	30	30
4	4	4	4	4	4
2	2	2	2	2	2

PRELIMINARY TEST IIIB, 1985
YIELD RANK

Strain	Yield Rank	Ottumwa IA	Stuart IA	Urbana IL
Century 84 (II)	28	32	16	32
Harper (III)	2	9	3	21
Zane	11	10	4	8
Sparks (IV)	28	15	31	20
Williams 82	33	39	37	13
C1661	19	30	19	32
C1667	38	38	32	37
C1680	15	24	28	7
C1681	16	37	35	1
C1687	28	36	10	4
CPRX73BCs-57G	36	35	34	29
LN82-477	13	13	6	5
LN82-3199	24	33	29	29
LN82-5154	26	21	13	14
LN82-6159	33	25	39	6
LN82-6400	33	18	36	27
LS81-E695	40	40	40	40
Md81-0942	16	15	20	19
Hobbit	1	1	1	9
C1669	8	2	2	10
C1671	21	17	18	28
C1672	32	22	38	25
C1675	14	19	8	26
C1677	20	26	27	31
C1682	23	31	32	11
C1684	22	34	24	15
HC79-1630	24	12	22	35
HC79-4085	12	11	23	32
HC80-586	4	7	11	22
HC80-587	4	6	9	24
HC80-590	10	3	12	16
HC80-592	2	14	14	3
HC80-595	16	4	5	38
HC81-3975	6	5	7	16
HC81-4011	9	8	15	23
HC81-4101	7	19	21	18
HC82-5210	26	28	16	36
HC82-9700	39	27	25	12
HC82-9717	37	23	25	39
HC82-9720	28	29	30	1

PRELIMINARY TEST IIIB, 1985
YIELD RANK

Lafayette IN	Manhattan KS	Mead NE	Hoytville OH	S. Charleston OH	Elk Point SD
39	18	8	5	36	4
4	26	18	23	1	7
37	16	11	34	16	13
35	38	38	2	23	35
30	35	34	10	4	27
29	7	12	19	14	1
35	39	29	1	20	23
11	21	22	27	11	20
30	24	23	4	5	2
32	40	35	25	17	29
26	28	37	16	18	28
21	28	28	32	10	16
27	30	36	7	9	37
28	33	33	24	26	12
16	34	39	8	32	21
34	20	27	26	27	9
40	37	40	39	35	37
1	32	17	21	33	8
22	18	1	3	12	11
17	7	2	12	39	31
22	4	7	15	38	15
2	27	30	29	34	34
9	25	10	30	18	17
5	6	21	17	31	33
6	17	26	38	20	17
12	23	32	14	24	40
18	21	19	22	37	35
2	13	15	35	15	22
15	5	3	19	5	24
8	10	5	13	8	5
22	9	16	18	25	10
18	10	9	9	3	25
32	2	6	37	28	39
14	15	4	10	20	13
7	3	14	33	7	6
13	14	13	6	2	3
25	1	31	31	29	26
38	10	25	36	40	32
9	31	24	28	29	29
20	36	20	40	13	19

PRELIMINARY TEST IIIB, 1985
MATURITY (Date)

Strain	Mean 8 Tests	Ottumwa IA	Stuart IA	Urbana IL
Century 84 (II)	-6.3		-9	-3
Harper (III)	9-27.5		9-26	9-21
Zane	-3.5		-6	-3
Sparks (IV)	+6.5		+9	+5
Williams 82	+6.0		+8	+5
C1661	+3.5		+4	0
C1667	+3.8		+5	+4
C1680	+1.8		+2	-1
C1681	+4.8		+5	+8
C1687	+1.3		+1	+1
CPRX73BCs-57G	+4.4		+7	+1
LN82-477	+1.9		+4	0
LN82-3199	+5.8		+8	+5
LN82-5154	+0.8		+2	+3
LN82-6159	+6.5		+11	+8
LN82-6400	+4.8		+6	+4
LS81-E695	+3.1		+4	+2
Md81-0942	+3.5		+4	+5
Hobbit	+1.5		+2	+1
C1669	+0.6		+1	-2
C1671	+4.4		+8	+3
C1672	+5.3		+9	+5
C1675	+2.4		+4	+1
C1677	+6.5		+11	+5
C1682	+6.0		+12	+5
C1684	+5.3		+8	+5
HC79-1630	+4.9		+6	+1
HC79-4085	+5.3		+8	+5
HC80-586	+5.5		+7	+3
HC80-587	+4.5		+6	+1
HC80-590	+5.5		+8	+4
HC80-592	+6.3		+7	+5
HC80-595	+4.4		+6	+3
HC81-3975	+2.6		+1	0
HC81-4011	+2.9		+2	0
HC81-4101	+4.1		+6	+2
HC82-5210	+3.0		+4	+1
HC82-9700	+1.0		-1	-1
HC82-9717	+1.6		+2	+1
HC82-9720	+3.6		+4	+3
Date Planted	5-12	5-8	5-6	5-7
Days to Mature	138	-	143	137

PRELIMINARY TEST IIIB, 1985
MATURITY (Date)

Lafayette IN	Manhattan KS	Mead NE	Hoytville OH	S. Charleston OH	Elk Point SD
-2	-3	-14	-9	-4	-6
9-20	9-20	10-5	9-27	9-22	10-19
-1	-1	-4	-7	-4	-2
+5	+12	+5	+6	+7	+3
+3	+9	+9	+6	+6	+2
+3	+12	+3	+4	+3	-1
+3	+4	+4	+5	+3	+2
+3	+6	-1	0	+5	0
+1	+8	+2	+2	+6	+2
0	+5	+2	-1	+1	+1
+5	+12	+5	+1	+2	+2
+1	0	+1	+4	+4	+1
+3	+13	+4	+5	+6	+2
+1	+2	+1	-2	0	-1
+3	+6	+7	+8	+7	+2
+4	+12	+3	+4	+3	+2
+3	+5	+3	+3	+4	+1
0	+11	+2	+3	+3	0
-1	+6	+2	+1	+2	-1
-1	+7	0	+4	-1	-3
+4	+7	+5	+6	+4	-2
+4	+8	+3	+6	+5	+2
+3	-2	+4	+5	+5	-1
+4	+12	+8	+6	+5	+1
+4	+5	+9	+6	+6	+1
+5	+9	+3	+5	+5	+2
+3	+12	+6	+5	+4	+2
+3	+13	+4	+3	+5	+1
+4	+13	+4	+7	+5	+1
+4	+11	+3	+6	+7	-2
+3	+13	+7	+5	+5	-1
+4	+14	+8	+6	+7	-1
+3	+13	+3	+4	+6	-3
+3	+11	+2	+2	+1	+1
+2	+13	+3	0	+4	-1
+3	+12	+2	+5	+5	-2
+2	+11	+2	+3	+3	-2
+2	+10	+1	-3	0	0
+2	+5	+2	+3	+1	-3
+1	+10	+4	+3	+6	-2
5-7	5-17	5-23	5-10	5-7	5-23
136	126	135	140	138	149

PRELIMINARY TEST IIIB, 1985
LODGING (Score)

Strain	Mean 9 Tests	Ottumwa IA	Stuart IA	Urbana IL
Century 84 (II)	1.4	1.8	1.7	1.0
Harper (III)	1.5	1.6	1.6	2.0
Zane	1.5	1.5	1.8	1.5
Sparks (IV)	2.5	2.5	2.7	3.0
Williams 82	1.8	1.8	2.0	2.0
C1661	2.0	2.1	2.1	2.0
C1667	1.7	1.8	1.7	2.0
C1680	1.4	1.4	1.8	1.0
C1681	1.9	1.8	1.8	2.0
C1687	2.4	1.7	2.5	2.5
CPRX73BC5-57G	2.1	2.4	2.1	2.5
LN82-477	1.9	1.9	2.1	2.5
LN82-3199	2.7	2.5	2.4	4.0
LN82-5154	1.9	1.9	2.0	2.0
LN82-6159	2.3	2.3	2.5	2.0
LN82-6400	2.2	2.0	2.0	3.0
LS81-E695	2.6	2.7	2.4	3.5
Md81-0942	1.8	1.9	2.2	2.5
Hobbit	1.4	1.7	1.9	1.0
C1669	1.5	1.6	2.0	1.0
C1671	1.8	1.6	2.6	1.5
C1672	1.4	1.9	2.1	1.0
C1675	1.3	1.5	1.8	1.0
C1677	1.6	1.7	2.1	1.0
C1682	1.9	1.9	3.0	1.5
C1684	1.5	1.6	2.2	1.0
HC79-1630	1.2	1.7	2.0	1.0
HC79-4085	1.2	1.6	1.9	1.0
HC80-586	1.2	1.6	1.8	1.0
HC80-587	1.2	1.6	2.0	1.0
HC80-590	1.2	1.6	1.9	1.0
HC80-592	1.3	1.9	2.0	1.0
HC80-595	1.3	1.9	1.8	1.0
HC81-3975	1.3	1.6	1.8	1.0
HC81-4011	1.4	2.1	1.8	1.0
HC81-4101	1.3	2.2	1.7	1.0
HC82-5210	1.3	1.6	1.9	1.0
HC82-9700	1.2	1.6	2.1	1.0
HC82-9717	1.2	1.7	2.3	1.0
HC82-9720	1.2	1.7	2.1	1.0

PRELIMINARY TEST IIIB, 1985
LODGING (Score)

Lafayette IN	Manhattan KS	Mead NE	Hoytville OH	S. Charleston OH	Elk Point SD
1.0	1.0	1.0	1.3	1.5	2.0
1.0	2.0	1.5	1.2	1.0	2.0
1.0	2.0	1.0	1.7	1.2	2.0
2.5	3.0	1.7	2.1	2.0	3.0
1.0	2.0	1.5	1.5	1.5	2.5
1.3	2.5	1.8	1.7	2.2	2.0
1.3	2.0	1.8	1.4	1.2	2.0
1.0	1.5	1.3	1.7	1.0	2.0
1.5	3.0	1.3	1.6	1.8	2.5
2.8	3.0	2.5	2.0	2.2	2.5
1.5	3.0	2.5	1.4	1.2	2.0
1.0	2.5	1.0	1.5	1.2	3.0
2.8	3.5	3.0	1.6	2.8	2.0
1.5	2.5	2.0	1.3	1.8	2.5
2.0	3.0	2.3	2.2	2.0	2.0
2.8	2.5	2.3	1.7	1.8	2.0
2.8	2.5	3.5	2.0	2.2	1.5
2.0	2.0	2.0	1.4	1.0	1.5
2.0	1.5	1.0	1.1	1.2	1.0
1.8	2.0	1.0	1.4	1.5	1.0
2.8	2.0	1.8	1.7	1.2	1.0
1.8	1.5	1.0	1.2	1.0	1.0
1.3	1.5	1.0	1.2	1.2	1.0
2.0	2.0	1.0	1.3	1.2	2.0
2.0	2.0	2.3	1.6	2.0	1.0
1.3	2.0	1.0	1.4	1.8	1.5
1.0	1.0	1.0	1.2	1.0	1.0
1.0	1.0	1.0	1.2	1.2	1.0
1.0	1.0	1.0	1.2	1.0	1.0
1.0	1.0	1.0	1.2	1.0	1.0
1.0	1.5	1.0	1.2	1.0	1.0
1.3	1.5	1.0	1.3	1.0	1.0
1.0	1.5	1.0	1.2	1.0	1.0
1.0	1.5	1.3	1.2	1.0	1.0
1.0	2.0	1.0	1.3	1.0	1.5
1.0	1.5	1.0	1.2	1.0	1.0
1.0	1.5	1.3	1.4	1.0	1.0
1.0	1.0	1.0	1.2	1.0	1.0
1.0	1.0	1.0	1.2	1.0	1.0
1.0	1.0	1.0	1.1	1.0	1.0

PRELIMINARY TEST IIIB, 1985
PLANT HEIGHT (Inches)

Strain	Mean 9 Tests	Ottumwa IA	Stuart IA	Urbana IL
Century 84 (II)	35	36	36	39
Harper (III)	35	32	36	39
Zane	35	34	38	40
Sparks (IV)	44	48	46	49
Williams 82	39	34	39	44
C1661	38	34	40	44
C1667	40	40	39	45
C1680	39	42	41	45
C1681	45	38	48	56
C1687	40	42	42	41
CPRX73BC5-57G	41	46	42	44
LN82-477	40	42	42	48
LN82-3199	42	47	44	45
LN82-5154	38	34	42	43
LN82-6159	41	43	42	42
LN82-6400	39	36	41	42
LS81-E695	37	42	40	32
Md81-0942	36	42	39	42
Hobbit	26	28	30	24
C1669	26	30	30	24
C1671	33	36	37	32
C1672	31	38	36	32
C1675	28	36	30	28
C1677	28	28	32	29
C1682	32	30	37	35
C1684	29	28	34	28
HC79-1630	24	26	28	24
HC79-4085	25	32	26	24
HC80-586	24	25	29	23
HC80-587	25	24	30	24
HC80-590	25	27	30	24
HC80-592	27	36	30	25
HC80-595	25	32	29	23
HC81-3975	26	26	32	22
HC81-4011	27	29	30	24
HC81-4101	27	35	30	25
HC82-5210	25	26	30	23
HC82-9700	25	36	28	21
HC82-9717	24	34	26	22
HC82-9720	24	34	26	22

PRELIMINARY TEST IIIB, 1985
PLANT HEIGHT (Inches)

Lafayette IN	Manhattan KS	Mead NE	Hoytville OH	S. Charleston OH	Elk Point SD
34	35	37	29	29	36
32	39	37	27	33	37
34	38	39	29	31	35
39	49	45	37	32	47
39	40	42	33	38	43
37	41	41	31	36	39
37	44	45	33	34	42
37	41	41	31	38	38
43	51	49	39	42	43
34	45	47	33	36	41
37	43	44	33	35	41
37	39	39	30	39	45
40	44	46	36	38	39
39	37	43	30	33	43
39	41	43	35	39	41
38	42	44	34	33	37
37	38	39	32	37	32
37	35	40	28	30	34
26	26	27	21	25	25
27	28	26	22	25	23
32	38	36	27	29	29
30	33	33	26	26	27
29	30	30	21	26	26
28	28	31	23	26	27
36	34	-	30	30	27
28	29	-	28	25	29
26	23	26	20	20	23
25	23	24	20	22	28
26	24	27	17	23	24
26	22	27	21	24	25
28	26	27	19	23	22
28	25	28	22	23	27
26	21	28	20	24	24
26	26	29	25	22	27
27	27	28	21	25	30
28	26	26	21	27	26
27	24	27	23	20	24
25	23	25	18	18	29
25	23	24	18	22	22
26	22	25	18	22	23

PRELIMINARY TEST IIIB, 1985
SEED QUALITY (Score)

Strain	Mean 8 Tests	Ottumwa IA	Stuart IA	Urbana IL
Century 84 (II)	2.1	2.6		1.8
Harper (III)	1.8	2.1		1.5
Zane	2.1	2.5		1.5
Sparks (IV)	2.1	2.0		1.7
Williams 82	1.8	2.3		1.1
C1661	2.5	2.7		2.3
C1667	1.9	2.4		1.3
C1680	1.9	2.7		1.7
C1681	1.9	2.4		1.5
C1687	2.1	2.5		1.7
CPRX73BC5-57G	2.1	2.3		1.7
LN82-477	1.9	2.0		1.7
LN82-3199	2.6	2.7		1.8
LN82-5154	2.1	2.1		1.7
LN82-6159	1.9	2.0		1.5
LN82-6400	2.0	2.3		1.5
LS81-E695	2.0	2.6		1.1
Md81-0942	2.0	2.5		1.5
Hobbit	1.6	1.8		1.1
C1669	1.7	2.0		1.1
C1671	2.0	2.3		1.5
C1672	1.9	2.3		1.3
C1675	1.8	2.5		1.1
C1677	1.7	2.3		1.1
C1682	2.0	2.5		1.3
C1684	1.8	2.6		1.3
HC79-1630	2.0	2.2		1.1
HC79-4085	2.1	2.2		1.3
HC80-586	1.6	2.0		1.1
HC80-587	1.5	1.6		1.1
HC80-590	1.7	1.9		1.3
HC80-592	1.5	1.8		1.1
HC80-595	1.7	1.7		1.1
HC81-3975	1.7	1.5		1.1
HC81-4011	1.5	1.4		1.1
HC81-4101	1.4	1.6		1.1
HC82-5210	1.7	1.8		1.1
HC82-9700	1.7	1.9		1.1
HC82-9717	1.5	1.5		1.3
HC82-9720	1.5	1.4		1.1

PRELIMINARY TEST IIIB, 1985
SEED QUALITY (Score)

Lafayette IN	Manhattan KS	Mead NE	Hoytville OH	S. Charleston OH	Elk Point SD
1.5	2.0	1.0	2.0	4.0	2.0
2.0	2.5	1.3	2.0	1.0	2.0
2.5	3.5	1.5	2.0	1.5	2.0
2.0	3.0	1.8	1.5	2.0	3.0
2.0	2.0	1.3	1.0	1.5	3.0
2.0	3.5	1.8	2.0	3.0	3.0
2.0	3.0	1.0	1.0	1.5	3.0
1.5	3.0	1.0	1.0	1.5	3.0
1.5	2.5	1.0	2.0	1.5	3.0
1.5	3.5	1.8	1.0	1.5	3.0
2.0	2.5	2.0	1.5	2.0	3.0
1.5	2.0	1.0	2.0	2.0	3.0
2.0	3.5	2.0	2.0	3.0	4.0
2.0	2.5	1.5	2.0	2.0	3.0
1.5	2.0	1.5	2.0	1.5	3.0
2.0	2.5	1.3	2.0	1.5	3.0
1.5	2.0	1.5	2.0	1.5	4.0
1.5	2.5	1.0	1.5	1.5	4.0
1.5	2.0	1.0	1.0	1.5	3.0
1.5	2.0	1.0	1.0	2.0	3.0
1.5	2.0	1.0	2.0	2.5	3.0
1.5	2.5	1.3	2.0	1.0	3.0
1.5	1.5	1.0	2.0	1.5	3.0
1.0	1.5	1.3	2.0	1.5	3.0
2.0	2.0	1.3	2.0	1.5	3.0
1.5	1.5	1.0	1.0	1.5	4.0
1.0	2.0	1.3	2.0	2.0	4.0
2.0	3.0	1.0	2.0	1.0	4.0
1.0	2.5	1.0	1.0	1.5	3.0
1.0	2.0	1.0	1.0	1.0	3.0
1.5	2.0	1.0	1.5	1.5	3.0
1.0	2.0	1.3	1.0	1.0	3.0
1.0	2.0	1.0	2.0	1.5	3.0
1.5	2.0	1.3	1.0	2.0	3.0
1.5	2.5	1.0	1.0	1.5	2.0
1.0	2.0	1.0	1.0	1.5	2.0
1.5	1.5	1.0	1.0	1.0	5.0
1.5	1.5	1.0	1.0	1.5	4.0
1.0	1.5	1.0	1.0	1.5	3.0
1.5	2.0	1.0	1.5	1.5	3.0

PRELIMINARY TEST IIIB, 1985
SEED SIZE (g/100)

Strain	Mean 8 Tests	Ottumwa IA	Stuart IA	Urbana IL
Century 84 (II)	19.6	20.2		20.1
Harper (III)	19.9	21.6		21.1
Zane	21.3	22.6		24.4
Sparks (IV)	17.7	18.9		20.2
Williams 82	17.0	17.3		19.0
C1661	15.8	15.9		16.8
C1667	17.5	17.8		19.1
C1680	17.7	18.0		20.4
C1681	17.6	18.8		18.5
C1687	17.1	18.2		20.2
CPRX73BC5-57G	18.9	19.0		20.2
LN82-477	19.1	20.0		21.7
LN82-3199	18.5	19.9		20.6
LN82-5154	20.0	20.7		21.5
LN82-6159	17.0	18.2		18.5
LN82-6400	17.4	18.0		19.6
LS81-E695	15.5	15.5		16.5
Md81-0942	17.0	18.3		19.5
Hobbit	17.5	18.1		18.1
C1669	19.1	19.5		19.6
C1671	16.6	17.1		18.2
C1672	15.3	16.0		16.5
C1675	15.2	15.5		14.5
C1677	15.7	15.5		15.3
C1682	16.3	16.4		18.4
C1684	15.7	15.3		16.5
HC79-1630	16.2	16.1		17.7
HC79-4085	17.0	18.5		18.0
HC80-586	20.3	21.5		20.3
HC80-587	18.7	19.0		19.2
HC80-590	19.7	20.2		20.9
HC80-592	19.5	20.5		20.5
HC80-595	20.0	20.8		21.5
HC81-3975	19.7	20.0		21.6
HC81-4011	19.6	20.0		21.2
HC81-4101	21.5	21.7		23.1
HC82-5210	15.4	15.1		16.5
HC82-9700	17.8	18.4		19.4
HC82-9717	15.9	16.7		16.1
HC82-9720	15.4	15.4		16.1

PRELIMINARY TEST IIIB, 1985
SEED SIZE (g/100)

Lafayette IN	Manhattan KS	Mead NE	Hoytville OH	S. Charleston OH	Elk Point SD
19.0	18.0	20.9	19.6	20.2	18.7
21.3	15.4	20.5	18.9	21.8	18.7
20.9	18.3	23.1	19.1	20.5	21.4
19.2	13.5	18.0	18.2	19.7	13.8
18.1	13.5	18.0	17.7	18.7	14.0
15.8	14.3	17.7	15.4	15.3	15.4
18.2	12.9	19.6	18.1	20.5	14.1
17.5	14.1	18.5	16.9	20.1	16.1
18.0	13.7	18.2	18.5	19.5	15.3
17.9	13.7	16.5	16.3	19.3	14.8
20.5	16.2	19.5	18.7	20.1	16.6
20.5	15.7	19.4	18.4	20.3	16.7
20.0	15.6	18.2	18.8	19.8	14.9
20.7	17.6	21.3	19.7	19.6	18.5
18.0	13.8	17.9	16.8	17.7	15.0
15.8	16.0	18.8	17.2	18.3	15.4
16.0	14.2	15.9	14.3	16.8	14.5
16.6	13.9	18.7	15.3	16.5	17.0
19.5	12.7	19.8	18.3	16.8	16.5
20.9	17.1	20.7	19.9	18.0	17.1
17.7	14.8	18.7	16.2	16.3	13.7
16.3	11.8	16.4	15.2	15.8	14.4
15.8	12.4	16.7	15.4	16.1	15.5
17.1	12.2	15.9	16.8	17.3	15.3
17.3	12.2	17.6	15.7	17.0	15.5
17.9	14.4	16.7	16.0	16.8	12.3
17.3	14.2	18.8	14.3	16.4	14.6
17.6	13.6	19.8	15.5	16.9	16.2
20.6	17.3	22.5	20.0	21.4	18.6
20.0	15.1	21.0	18.8	19.3	17.5
19.2	17.9	21.2	19.1	20.6	18.6
19.3	16.2	21.8	20.1	20.9	16.8
19.9	17.8	21.9	19.3	18.7	20.3
20.1	16.0	21.8	20.0	20.1	18.2
20.0	18.3	21.3	17.6	21.0	17.7
21.0	19.2	23.1	21.8	21.5	20.6
16.2	16.0	17.4	13.2	14.6	14.2
18.0	16.3	20.2	16.2	15.8	18.3
16.9	13.1	18.2	15.0	15.7	15.8
16.8	12.0	17.1	13.9	15.6	15.9

PRELIMINARY TEST IIIB, 1985
PROTEIN (%)

Strain	Mean 5 Tests	Ottumwa IA	Urbana IL	Lafayette IN	Manhattan KS	S. Charleston OH
Century 84 (II)	43.9	42.0	44.4	43.0	45.5	44.5
Harper (III)	41.5	39.7	40.9	41.6	44.6	40.5
Zane	40.6	39.1	39.7	41.2	43.0	39.9
Sparks (IV)	41.3	40.0	40.8	41.4	43.0	41.4
Williams 82	42.6	39.9	41.5	43.5	45.8	42.4
C1661	39.1	37.3	38.2	39.7	40.2	40.0
C1667	42.4	40.7	41.4	42.0	46.5	41.4
C1680	39.0	36.9	38.8	39.2	40.5	39.6
C1681	38.2	36.2	36.7	38.2	42.1	38.0
C1687	41.2	38.9	41.5	40.8	43.4	41.2
CPRX73BCs-57G	41.8	40.3	41.5	41.5	44.0	41.7
LN82-477	42.1	40.7	41.0	43.0	43.8	42.0
LN82-3199	43.8	43.8	42.9	43.5	45.3	43.5
LN82-5154	42.7	40.8	41.7	43.7	44.2	42.9
LN82-6159	42.8	41.0	42.2	43.6	44.5	42.6
LN82-6400	42.3	40.8	42.2	44.2	41.6	42.9
LS81-E695	41.4	40.5	40.5	41.5	42.8	41.7
Md81-0942	40.8	40.1	40.6	41.0	41.6	40.5
Hobbit	40.2	38.8	38.7	41.8	41.8	39.7
C1669	41.0	40.0	40.2	41.5	41.3	41.8
C1671	38.0	36.1	37.1	37.9	40.3	38.6
C1672	40.0	37.3	38.8	40.1	43.7	40.2
C1675	42.4	41.6	41.5	42.3	44.8	41.9
C1677	43.3	42.5	42.6	44.1	44.6	42.5
C1682	43.1	41.0	42.5	44.0	44.7	43.5
C1684	44.0	43.6	43.9	43.8	44.4	44.3
HC79-1630	41.8	41.6	41.1	41.1	44.0	41.2
HC79-4085	41.1	40.6	40.6	40.4	43.7	40.4
HC80-586	40.7	40.2	40.1	40.4	42.5	40.5
HC80-587	40.5	39.9	39.7	40.2	42.9	39.9
HC80-590	41.4	40.2	40.4	41.4	43.8	41.0
HC80-592	40.8	40.5	39.8	40.2	42.6	40.8
HC80-595	39.7	38.8	39.3	39.9	40.8	39.8
HC81-3975	40.7	39.6	39.1	40.7	42.6	41.3
HC81-4011	42.0	41.1	42.0	41.4	44.2	41.2
HC81-4101	41.8	40.7	41.7	41.3	44.0	41.5
HC82-5210	42.3	40.5	41.5	42.8	44.0	42.7
HC82-9700	42.1	41.1	41.1	42.2	44.3	41.9
HC82-9717	42.0	40.9	40.4	41.3	45.7	41.5
HC82-9720	41.5	41.5	40.8	40.7	43.9	40.8

PRELIMINARY TEST IIIB, 1985
OIL (%)

Mean 5 Tests	Ottumwa IA	Urbana IL	Lafayette IN	Manhattan KS	S. Charleston OH
20.2	20.9	19.7	20.0	20.4	20.2
21.1	21.9	21.3	21.4	20.4	20.7
22.5	23.3	22.9	21.5	21.8	22.8
21.2	21.6	21.8	20.7	20.5	21.4
20.8	21.8	21.6	20.5	19.7	20.4
22.9	24.1	22.8	23.2	22.5	21.7
21.2	22.1	21.7	21.9	19.4	21.0
21.5	22.6	21.1	21.5	21.4	20.8
22.7	23.6	22.9	23.1	21.8	22.1
21.8	22.9	21.6	21.2	21.3	22.1
21.4	21.8	21.9	22.0	20.9	20.5
21.0	22.2	20.3	20.9	21.0	20.8
20.1	20.3	20.5	20.0	19.6	20.2
20.7	21.3	21.0	20.4	20.4	20.4
19.9	20.6	19.8	19.6	19.6	19.8
21.3	21.3	21.6	20.0	21.9	21.5
20.6	21.3	21.1	20.0	21.6	19.2
22.3	22.9	22.1	21.7	22.4	22.4
22.2	23.4	22.6	21.1	21.6	22.4
21.4	22.3	21.0	21.1	21.3	21.1
22.3	23.5	22.3	22.3	21.4	22.2
22.1	23.6	22.3	22.0	20.8	22.0
21.2	21.3	20.9	21.7	20.4	21.5
20.8	21.3	20.0	20.6	20.4	21.8
19.4	20.8	19.7	19.2	18.6	18.8
19.3	19.6	19.0	19.5	19.0	19.5
21.8	22.1	21.4	22.6	20.8	21.9
21.2	21.8	21.6	21.3	20.2	21.2
22.4	23.3	22.9	23.0	21.4	21.5
22.6	23.5	22.9	23.1	20.9	22.4
22.6	23.4	23.1	23.1	20.7	22.6
22.6	22.9	23.2	23.3	21.7	22.0
22.9	23.8	22.6	23.3	21.7	22.9
23.1	23.9	24.1	23.3	21.6	22.5
22.0	22.7	21.9	23.0	21.0	21.4
21.9	22.8	21.8	23.1	20.3	21.7
20.6	22.3	20.4	19.8	20.1	20.6
21.2	22.3	21.1	21.1	20.6	20.7
20.6	21.9	21.0	21.4	18.8	21.1
20.9	21.4	21.4	20.8	19.7	21.2

UNIFORM TEST IV, 1985

Strain	Parentage	Previous Testing*	Generation Composited	Descriptive Code
Douglas	Williams x Calland	7	F_5	WTBDYIb I
Franklin	L12 x Custer	6	F_3	PGBDYIb I
Pixie	Williams x Ransom	7	F_5	PTTDYBl D
Sparks (IV)	Williams x Calland	6	F_6	WTTSYBl I
Williams 82 (III)	Williams[7] x Kingwa	3	4 BC_6F_3	WTTSYBl I
C1635	Union x Century	1	F_5	WTTSYBl I
C1653	A85-305022 x Century	PT IVA	F_5	WTBDYBr I
C1657	Hobbit x Century	PT IVA	F_6	PTBSYBl D+I
HC77-2204 Ripley	~~L72U-2567 x Essex~~	3	F_5	PGTSYBf D
HC78-1119	L72U-2567 x Essex	1	F_5	PTTSYBl D
HC79-1644	L72U-2567 x Ransom	2	F_5	WTTDYBl D
HC80-597	HC74-3400 x Sprite	PT IVB	F_5	PTTDYBl D
HC80-1092	Gnome x Ransom	PT IVB	F_5	PTTSYBl D
HC80-1211	Essex x Elf	PT IVB	F_5	PTBSYBl D
HC81-1134	Gnome x Essex	PT IVB	F_5	PTTDYBl D
K1106	(Williams x Calland) x Essex	PT IVB	F_5	WTTDYBl I
L81L-97	Williams x PI181550	PT IVB	F_6	WTTSYBl I
LS78W-110	Franklin x J74-5	2	F_4	PGTDYIb I
LS80-6521 Franklin	~~L73-856~~6 x Pixie	PT IVA	F_5	PTTDYBl I
Md79-5043	Union x Miles	2	F_5	WTTDYBl I
Md80-IL2-1	Forrest x (Bonus x Cutler)	1	F_7	WTBDYBl I

* Number of years in test or 1983 test.

UNIFORM TEST IV, 1985

DISEASE DATA

Strain	Chlorosis Code		Emergence Score	Shattering Score		Mottling	PS	BS
	Ames	Lamberton	Ames	Eldorado	Manhattan	Orange %	%	Belleville *Score
Douglas	2.7	2.5	2	1.0	1.0	16	2	2.5
Franklin	2.5	2.5	3	1.0	1.0	3	4	2.5
Pixie	3.5	2.0	1	1.0	1.0	16	0	3.5
Sparks (IV)	2.8	1.5	5	3.5	1.0	44	2	3.5
Williams 82 (III)	2.8	2.5	5	1.2	1.0	21	2	2.5
C1635	3.2	2.0	4	1.2	1.0	43	3	2.0
C1653	2.7	2.5	1	3.0	1.0	1	5	1.5
C1657	3.0	2.5	1	2.5	1.0	2	2	1.5
HC77-2204	3.3	2.5	1	1.7	1.0	0	0	2.0
HC78-1119	3.0	3.0	2	1.0	1.0	13	0	3.5
HC79-1644	2.5	1.0	2	1.3	1.0	0	0	4.5
HC80-597	3.2	3.0	2	1.7	1.0	0	2	2.0
HC80-1092	3.3	2.0	1	2.2	1.0	0	1	4.5
HC80-1211	2.8	2.5	1	2.7	1.0	1	1	5.0
HC81-1134	3.8	4.0	1	3.0	1.0	1	1	4.0
K1106	3.3	4.0	2	1.8	1.0	23	2	1.5
L81L-97	3.3	2.0	2	1.5	1.0	12	1	2.0
LS78W-110	3.7	4.0	1	1.0	1.0	79	0	1.0
LS80-6521	2.2	2.5	1	1.0	1.0	27	0	1.0
Md79-5043	3.0	2.0	1	1.5	1.0	31	1	1.0
Md80-IL2-1	3.0	2.5	1	1.0	1.0	20	2	1.5

UNIFORM TEST IV, 1985

DISEASE DATA

Strain	BSR Ames Plant N %	BSR Ames Stem N %	BTS Ames a Score	PR Ames Race4 -- Reaction --	PR Lafayette Race1 -- Reaction --	PR Vickery Tolerance Score	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a Score	Germ Lafayette %
Douglas	50	10.0	2	S	R	2.5	15	10	4E	84
Franklin	100	69.1	4	S	R	2.5	17	12	3M	86
Pixie	60	37.3	2	S	S	3.1	4	0	5E	98
Sparks (IV)	90	57.1	3	S	R	2.6	16	22	5E	74
Williams 82(III)	90	56.5	3	R	R	2.4	13	0	5M	92
C1635	90	50.3	2	S	R	2.5	16	16	5M	74
C1653	80	40.0	3	S	S	2.8	19	6	1	84
C1657	100	69.5	3	S	R	2.3	10	4	2M	82
HC77-2204	100	77.4	2	S	S	2.1	0	0	2M	96
HC78-1119	80	47.8	2	S	S	3.1	8	4	5M	92
HC79-1644	90	74.3	3	S	S	3.5	9	6	1	86
HC80-597	100	86.7	3	S	S	3.3	5	0	3M	100
HC80-1092	100	75.0	1	S	S	3.4	9	0	1	92
HC80-1211	100	79.8	3	S	S	3.5	4	2	2E	94
HC81-1134	80	45.2	2	S	S	2.9	2	4	4M	90
K1106	100	44.0	2	S	R	2.4	10	4	4E	92
L81L-97	70	37.7	2	S	S	2.5	6	4	4E	92
LS78W-110	90	35.8	4	S	S	2.4	14	10	5S	84
LS80-6521	30	15.3	3	S	S	2.6	4	6	5E	94
Md79-5043	70	29.5	3	S	S	3.3	2	2	5E	96
Md80-IL2-1	70	20.1	2	S	R	2.6	13	6	2M	96

UNIFORM TEST IV, 1985

1984-1985 2 YEAR MEAN

Strain No. of Tests	Yield 35 bu/a	Rank 35 No.	Maturity 34 Date	Lodging 35 Score	Plant Height 35 In	Seed Quality 35 Score	Seed Size 32 g/100	Composition Protein 7 %	Oil 7 %
Douglas	42.8	9	+5.4	1.8	36	2.7	18.3	40.6	21.6
Franklin	37.8	12	+0.8	2.2	42	2.4	15.4	37.8	22.2
Pixie	44.4	4	+1.6	1.4	21	1.8	17.2	41.0	22.0
Sparks (IV)	41.4	10	9-26.4*	2.2	40	2.4	17.0	39.2	22.0
Williams 82 (III)	43.8	7	-2.4	1.7	37	2.0	17.3	41.0	22.2
C1635	44.4	4	+0.6	1.5	34	2.4	18.8	42.4	21.3
HC77-2204	46.2	1	0.0	1.3	24	1.7	14.0	38.8	22.0
HC78-1119	44.8	3	+2.6	1.3	20	2.0	18.8	43.2	21.6
HC79-1644	43.5	8	+0.6	1.2	20	1.7	16.6	39.4	23.2
LS78W-110	40.8	11	+4.6	2.5	42	2.1	14.7	39.4	21.2
Md79-5043	45.2	2	+1.4	1.8	38	2.0	17.4	42.1	20.9
Md80-IL2-1	44.3	6	+3.8	2.3	43	2.3	15.9	39.8	21.7

* 128 Days After Planting

1983-1985 3-YEAR MEAN

No. of Tests	51	51	49	51	52	53	49	11	11
Douglas	40.6	6	+4.5	1.7	36	2.7	17.6	41.4	21.5
Franklin	35.6	9	+0.5	2.1	41	2.6	14.8	38.4	22.3
Pixie	42.1	3	-1.2	1.3	21	1.9	16.5	41.1	22.2
Sparks (IV)	40.6	6	9-25.9*	2.2	39	2.5	16.7	40.0	22.1
Williams 82 (III)	42.0	4	-2.5	1.7	37	2.1	16.5	40.8	22.3
HC77-2204	44.4	1	-0.1	1.3	23	1.8	13.6	39.2	22.3
HC79-1644	41.7	5	+0.6	1.2	20	1.9	16.1	39.8	23.4
LS78W-110	38.5	8	+4.0	2.3	40	2.3	14.1	39.5	21.8
Md79-5043	42.8	2	+0.9	1.7	37	2.1	16.4	42.4	21.2

* 127 Days After Planting

UNIFORM TEST IV, 1985

Regional Summary

Strain No. of Tests	Yield 17 bu/a	Rank 17 No.	Maturity 17 Date	Lodging 17 Score	Plant Height 17 In	Seed Quality 17 Score	Seed Size 16 g/100	Composition Protein 5 %	Oil 5 %
Douglas	43.1	17	+5.2	1.7	35	2.8	18.4	41.3	21.5
Franklin	39.5	21	+1.8	2.1	41	2.5	15.6	39.3	22.0
Pixie	46.2	5	-1.5	1.4	21	1.8	17.4	41.6	21.9
Sparks (IV)	42.9	18	9-26.8*	2.0	38	2.6	17.5	39.9	22.0
Williams 82 (III)	44.9	9	-1.0	1.6	35	2.2	17.7	41.6	22.2
C1635	44.1	13	+1.7	1.5	32	2.7	19.1	43.1	21.4
C1653	47.5	2	+1.6	1.3	34	2.6	18.5	40.7	22.3
C1657	46.7	3	+1.3	1.7	37	2.3	17.8	41.3	21.1
HC77-2204	48.5	1	+0.8	1.3	24	1.7	14.4	39.8	21.8
HC78-1119	46.4	4	+2.3	1.4	21	2.2	18.9	43.8	21.9
HC79-1644	44.6	11	+0.9	1.3	21	1.7	16.7	40.2	23.1
HC80-597	44.5	12	-1.3	1.2	22	2.0	19.2	40.6	22.5
HC80-1092	46.0	6	-1.9	1.3	21	1.9	18.1	40.4	22.7
HC80-1211	42.8	19	-1.7	1.2	21	2.0	15.0	41.4	21.8
HC81-1134	44.0	15	-1.6	1.5	23	1.7	17.1	42.2	21.4
K1106	45.7	8	+2.1	1.4	32	2.1	17.3	41.5	21.9
L81L-97	44.1	13	-1.6	1.7	36	2.2	18.0	41.4	22.4
LS78W-110	41.2	20	+4.5	2.4	40	2.1	14.9	40.7	20.7
LS80-6521	43.6	16	+4.2	1.7	37	2.1	16.4	40.8	22.1
Md79-5043	44.7	10	+1.6	1.6	36	2.3	17.5	43.0	21.1
Md80-IL2-1	45.8	7	+4.0	2.2	41	2.4	16.5	41.5	21.5

* 129 Days After Planting

Ripley (HC77 2204) continued to be the highest yielding Group IV variety in the test. The strain LS78W-110, resistant to races 3 and 4 of the soybean cyst nematode, averaged about 3 bushels per acre higher in seed yield than Franklin, which is resistant to races 1 and 3 of the SCN. The SCN, race 3 resistant LS80-6521, was superior in yield and lodging resistance to both Franklin and LS78W-110.

UNIFORM TEST IV, 1985

YIELD (bu/a)

Strain	Mean 17 Tests	Belle-ville IL	Carbondale IL	Eldorado IL	Lafayette IN	Sullivan IN	Man-hattan KS	Topeka KS	Lexington KY
Douglas	43.1	42.1	49.0	20.1	46.1	48.5	41.9	47.0	43.5
Franklin	39.5	44.7	35.0	39.4	35.8	44.9	30.1	32.0	38.6
Pixie	46.2	50.0	50.0	31.8	59.1	62.4	35.2	52.8	49.4
Sparks (IV)	42.9	44.6	40.0	30.0	48.2	52.2	36.4	46.5	47.7
Williams 82 (III)	44.9	46.2	43.0	48.1	52.0	48.8	37.0	44.3	47.7
C1635	44.1	48.8	44.0	42.9	44.7	46.7	41.8	41.2	46.0
C1653	47.5	53.0	48.0	31.1	54.2	53.5	41.6	46.3	52.0
C1657	46.7	52.6	42.0	44.5	52.6	47.2	41.7	49.8	51.6
HC77-2204	48.5	49.7	44.0	41.1	48.4	61.9	44.5	58.1	52.0
HC78-1119	46.4	43.1	44.0	32.7	48.7	50.0	35.8	54.5	51.0
HC79-1644	44.6	41.5	49.0	20.3	53.3	54.7	29.7	47.9	54.7
HC80-597	44.5	46.1	44.0	23.4	61.2	49.7	34.8	53.8	48.6
HC80-1092	46.0	36.9	44.0	24.1	63.3	63.8	38.6	51.7	59.1
HC80-1211	42.8	28.1	48.0	18.3	52.6	52.2	34.2	55.6	52.5
HC81-1134	44.0	45.2	41.0	19.1	55.7	58.5	39.3	54.3	49.4
K1106	45.7	47.5	43.0	42.3	48.6	52.2	38.7	48.9	48.8
L81L-97	44.1	52.4	40.0	33.9	44.7	53.9	40.7	42.4	45.0
LS78W-110	41.2	48.8	38.0	40.4	37.8	50.4	33.7	40.3	42.6
LS80-6521	43.6	53.8	44.0	42.0	45.1	47.4	31.1	41.1	36.8
Md79-5043	44.7	46.9	41.0	36.9	44.4	52.1	41.6	42.2	49.7
Md80-IL2-1	45.8	46.2	37.0	38.0	52.5	53.1	38.6	48.2	46.7
C.V. (%)		10.5	0.1	9.7	9.9	7.6	11.4	9.0	7.2
L.S.D. (5%)		8.0	5.9	17.6	6.6	5.4	7.1	7.1	3.6
Row Sp. (In.)		30	30	30	24	15	30	30	30
Rows/Plot		4	4	4	4	5	4	4	4
Reps		3	3	3	3	3	3	3	3

UNIFORM TEST IV, 1985

YIELD (bu/a)

Strain	Queens-town MD	Portageville MO Clay	Portageville MO Loam	Columbia MO	Lincoln NE	Adelphia NJ	Ripley OH	S.Charles-ton* OH	Landis-ville PA	Orange VA
Douglas	46.9	13.7	35.4	42.9	45.2	59.5	46.2	51.1	58.4	47.0
Franklin	42.2	20.1	36.0	43.5	40.3	50.0	41.2	46.7	51.6	46.3
Pixie	48.7	17.5	15.0	43.6	64.7	58.1	48.1	34.4	52.3	46.7
Sparks (IV)	48.5	14.7	24.2	41.0	55.1	50.9	51.1	52.3	48.3	49.4
Williams 82 (III)	45.4	22.1	31.0	40.5	57.4	52.3	47.9	48.5	52.7	46.2
C1635	46.1	18.0	30.2	41.0	56.6	57.5	47.3	50.9	54.7	42.1
C1653	50.8	14.9	32.5	45.7	56.3	65.6	49.0	58.1	68.8	44.8
C1657	50.3	16.4	28.7	51.2	56.0	53.3	44.8	49.6	65.0	47.0
HC77-2204	49.4	19.1	26.5	50.9	65.8	56.2	47.5	53.1	57.7	52.1
HC78-1119	48.4	19.5	16.6	42.3	59.3	58.4	46.3	38.0	60.0	48.0
HC79-1644	43.1	12.7	20.2	46.8	60.4	61.5	46.8	33.0	64.0	52.2
HC80-597	50.9	14.3	16.9	36.1	59.8	58.1	44.9	30.0	59.8	54.1
HC80-1092	48.6	13.0	14.5	41.2	62.7	69.3	42.7	28.6	56.5	52.5
HC80-1211	47.6	10.5	9.0	41.9	64.2	57.1	46.7	41.0	62.1	47.5
HC81-1134	49.1	13.0	17.5	36.5	63.1	62.3	42.0	40.2	47.0	54.2
K1106	49.9	18.9	27.6	44.3	54.9	59.3	46.7	54.5	59.1	46.2
L81L-97	46.8	20.4	33.4	-	51.9	53.1	44.6	55.0	56.0	45.7
LS78W-110	44.1	22.6	42.9	40.5	52.1	47.4	36.0	42.7	44.9	38.4
LS80-6521	44.3	27.1	40.7	40.9	50.9	53.9	40.6	42.3	58.8	43.2
Md79-5043	49.9	24.6	29.4	46.8	50.2	56.3	42.3	50.8	59.0	46.0
Md80-IL2-1	47.6	22.8	28.9	50.2	53.1	60.8	42.5	51.1	62.8	50.1
C.V. (%)	7.2	16.2	16.9	12.0	-	6.5	-	-	10.3	-
L.S.D. (5%)	5.6	4.8	7.4	8.6	-	7.4	-	-	9.7	-
Row Sp. (In.)	30	30	30	30	30	30	30	30	24	30
Rows/Plot	4	4	4	4	4	4	4	4	4	3
Reps	3	3	3	3	3	3	3	-	3	4

* NOT INCLUDED IN THE MEAN

UNIFORM TEST IV, 1985

YIELD RANK

Strain	Yield Rank	Belle-ville IL	Carbondale IL	Eldorado IL	Lafayette IN	Sullivan IN	Man-hattan KS	Topeka KS	Lexington KY
Douglas	17	18	2	19	15	17	2	12	18
Franklin	21	15	21	8	21	21	20	21	20
Pixie	5	5	1	13	3	2	15	6	10
Sparks (IV)	18	16	17	15	14	9	13	13	13
Williams 82 (III)	9	11	12	1	10	16	12	15	13
C1635	13	7	6	3	17	20	3	18	16
C1653	2	2	4	14	5	7	5	14	4
C1657	3	3	14	2	17	19	4	8	6
HC77-2204	1	6	6	6	13	3	1	1	4
HC78-1119	4	17	6	12	11	14	14	3	7
HC79-1644	11	19	2	18	6	5	21	11	2
HC80-597	12	13	6	17	2	15	16	5	12
HC80-1092	6	20	6	16	1	1	10	7	1
HC80-1211	19	21	4	21	7	9	17	2	3
HC81-1134	15	14	15	20	4	4	8	4	9
K1106	8	9	12	4	12	9	9	9	11
L81L-97	13	4	17	11	17	6	7	16	17
LS78W-110	20	7	19	7	20	13	18	20	19
LS80-6521	16	1	6	5	16	18	19	19	21
Md79-5043	10	10	15	10	19	12	5	17	8
Md80-IL2-1	7	11	20	9	9	8	10	10	15

UNIFORM TEST IV, 1985

YIELD RANK

Strain	Queens-town MD	Portageville MO Clay	Portageville MO Loam	Columbia MO	Lincoln NE	Adelphia NJ	Ripley OH	S.Charles-ton* OH	Landis-ville PA	Orange VA
Douglas	14	17	4	10	20	6	11	6	11	10
Franklin	21	7	3	9	21	20	19	12	18	13
Pixie	8	12	19	8	2	9	3	18	17	12
Sparks (IV)	10	15	14	14	13	19	1	5	19	7
Williams 82 (III)	17	5	7	17	9	18	4	11	16	14
C1635	16	11	8	14	10	11	6	8	15	20
C1653	2	14	6	6	11	2	2	1	1	18
C1657	3	13	11	1	12	16	13	10	2	10
HC77-2204	6	9	13	2	1	14	5	4	12	5
HC78-1119	11	8	18	11	8	8	10	17	6	8
HC79-1644	20	20	15	4	6	4	7	19	3	4
HC80-597	1	16	17	20	7	9	12	20	7	2
HC80-1092	9	18	20	13	5	1	15	21	13	3
HC80-1211	12	21	21	12	3	12	8	15	5	9
HC81-1134	7	18	16	19	4	3	18	16	20	1
K1106	4	10	12	7	14	7	8	3	8	14
L81L-97	15	6	5	-	17	17	14	2	14	17
LS78W-110	19	4	1	17	16	21	21	13	21	21
LS80-6521	18	1	2	16	18	15	20	14	10	19
Md79-5043	5	2	9	4	19	13	17	9	9	16
Md80-IL2-1	12	3	10	3	15	5	16	6	4	6

* NOT INCLUDED IN THE MEAN

UNIFORM TEST IV, 1985

MATURITY (Date)

Strain	Mean 17 Tests	Belle-ville IL	Carbondale IL	Eldorado IL	Lafayette IN	Sullivan IN	Man-hattan KS	Topeka KS	Lexingtor KY
Douglas	+5.2	+11	+6	+7	+5	+3	+13	F	-1
Franklin	+1.8	+4	+3	+7	+1	0	+9	F	0
Pixie	-1.5	0	+1	+1	-2	-1	+2	+2	-8
Sparks (IV)	9-26.8	9-22	10-2	9-12	10-1	9-29	9-26	10-1	10-1
Williams 82(III)	-1.0	-1	-7	+3	0	-1	+1	+2	-6
C1635	+1.7	0	+4	+3	+1	+2	+3	+1	-6
C1653	+1.6	+1	+5	+3	+1	+4	+3	+4	-6
C1657	+1.3	+1	+1	+3	0	+1	+4	+4	-5
HC77-2204	+0.8	+1	-5	+3	+1	+2	+6	+2	-7
HC78-1119	+2.3	+7	+3	+4	+2	+4	+5	+3	-2
HC79-1644	+0.9	0	+7	+1	0	0	+7	+5	-5
HC80-597	-1.3	+1	-3	-1	0	-1	+4	+2	-8
HC80-1092	-1.9	0	-2	-2	-2	-1	+3	-1	-8
HC80-1211	-1.7	-2	-2	-8	+1	0	+2	+4	-8
HC81-1134	-1.6	+1	-3	-3	0	+1	+5	+1	-8
K1106	+2.1	+1	+1	+2	+3	-1	+7	+4	-2
L81L-97	-1.6	-2	-6	+2	-1	-1	+2	+1	-5
LS78W-110	+4.5	+8	+4	+12	+2	+1	+11	F	+3
LS80-6521	+4.2	+12	+6	+3	+2	0	+10	F	0
Md79-5043	+1.6	+2	+4	+3	0	-1	+7	+4	-1
Md80-IL2-1	+4.0	+3	+7	+9	-1	+1	+12	F	0
Date Planted	5-21	5-17	5-31	5-8	5-7	5-28	5-17	5-9	5-31
Days to Mature	131	128	124	127	147	124	132	145	123

UNIFORM TEST IV, 1985

MATURITY (Date)

Strain	Queens-town MD	Portageville MO Clay	Portageville MO Loam	Columbia MO	Lincoln NE	Adelphia NJ	Ripley OH	S.Charles-ton* OH	Landis-ville PA	Orange VA
Douglas	+6	+4	+8	+7	+2	+4	0	+6	+7	+1
Franklin	-2	-3	+4	+6	-1	-3	+1	+3	+5	-1
Pixie	-3	0	0	+1	-1	-2	-6	-5	-5	-4
Sparks (IV)	9-27	9-22	9-13	9-18	10-17	10-18	9-20	9-29	10-2	10-5
Williams 82(III)	-1	0	+5	0	0	-1	-6	-3	-5	0
C1635	+2	+5	+2	+3	0	+3	-2	0	+7	+1
C1653	+2	+1	+7	+4	0	-3	0	0	0	+1
C1657	+1	+4	0	+3	0	+4	+1	+1	-2	+2
HC77-2204	-2	+3	-3	+6	-1	+1	0	+3	+5	+1
HC78-1119	-1	+5	+8	+3	+1	+3	-3	0	-2	-1
HC79-1644	-3	-1	+9	+2	0	+2	-5	-1	-2	-1
HC80-597	+1	0	+2	0	-3	-4	-6	-3	-4	-2
HC80-1092	-3	-1	+4	+1	-1	-4	-8	-7	-5	-3
HC80-1211	-3	-3	0	+1	-1	-6	-1	0	0	-3
HC81-1134	-5	-2	+6	+2	0	-11	-4	0	-4	-4
K1106	+3	+4	+9	+3	+1	-1	+1	+2	0	+1
L81L-97	-2	0	0	-	-1	-4	-4	-2	0	-4
LS78W-110	+1	-2	+9	+10	+1	+2	+3	+5	+7	0
LS80-6521	+4	+5	+8	+7	+1	+4	-1	+4	+7	-1
Md79-5043	+1	-2	+3	+3	+1	+2	-4	0	+7	-1
Md80-IL2-1	+4	+4	+10	+6	+1	+2	0	+1	+7	-1
Date Planted	6-3	5-21	5-20	5-9	5-29	5-30	5-7	4-30	5-20	6-5
Days to Mature	116	124	116	132	141	141	136	152	135	122

* NOT INCLUDED IN THE MEAN

UNIFORM TEST IV, 1985

LODGING (Score)

Strain	Mean 17 Tests	Belle-ville IL	Carbondale IL	Eldorado IL	Lafayette IN	Sullivan IN	Man-hattan KS	Topeka KS	Lexington KY
Douglas	1.7	1.3	1.0	1.0	1.3	1.0	2.3	3.0	2.0
Franklin	2.1	2.0	1.0	1.6	2.5	1.3	2.8	3.0	3.2
Pixie	1.4	1.1	1.0	1.0	1.0	1.2	1.0	1.0	1.7
Sparks (IV)	2.0	1.5	1.0	1.4	2.3	1.5	1.3	2.3	2.7
Williams 82 (III)	1.6	1.4	1.0	1.1	1.3	1.2	1.0	2.3	2.5
C1635	1.5	1.3	1.0	1.0	1.0	1.0	1.2	2.0	2.2
C1653	1.3	1.2	1.0	1.0	1.0	1.0	1.0	1.7	1.3
C1657	1.7	1.3	1.0	1.0	1.7	1.0	1.3	2.7	2.7
HC77-2204	1.3	1.0	1.0	1.0	1.5	1.2	1.0	1.0	1.8
HC78-1119	1.4	1.1	1.0	1.0	1.0	1.2	1.0	1.0	1.7
HC79-1644	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.5
HC80-597	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.3
HC80-1092	1.3	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.5
HC80-1211	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3
HC81-1134	1.5	1.1	1.0	1.0	1.0	1.0	1.0	1.0	3.2
K1106	1.4	1.2	1.0	1.0	1.0	1.0	1.3	1.7	1.7
L81L-97	1.7	1.5	1.0	1.0	1.2	1.0	1.0	2.0	2.7
LS78W-110	2.4	2.0	1.9	1.5	3.5	2.0	2.3	3.0	3.8
LS80-6521	1.7	1.4	1.5	1.4	1.7	1.2	1.7	2.0	2.8
Md79-5043	1.6	1.5	1.0	1.0	1.3	1.0	1.5	2.3	2.5
Md80-IL2-1	2.2	1.4	1.8	1.5	2.5	1.5	3.2	2.7	3.3

* NOT INCLUDED IN THE MEAN

UNIFORM TEST IV, 1985

LODGING (Score)

Strain	Queens-town MD	Portageville MO		Columbia MO	Lincoln NE	Adelphia NJ	Ripley OH	S.Charles-ton* OH	Landis-ville PA	Orange VA
		Clay	Loam							
Douglas	3.2	1.0	1.0	1.2	2.0	3.3	1.2	1.7	3.2	1.5
Franklin	2.7	1.0	1.0	1.3	3.3	3.0	1.7	1.8	3.0	2.0
Pixie	3.2	1.0	1.0	1.0	1.0	2.7	1.3	1.0	2.3	1.3
Sparks (IV)	3.5	1.0	1.0	1.3	2.8	3.0	1.7	2.8	2.8	2.3
Williams 82 (III)	2.7	1.0	1.0	1.0	2.0	2.3	1.2	1.5	2.7	1.0
C1635	2.3	1.0	1.0	1.0	1.7	3.0	1.0	1.0	2.3	1.0
C1653	1.5	1.0	1.0	1.0	1.5	2.7	1.0	1.2	2.2	1.0
C1657	1.8	1.0	1.0	1.0	2.0	4.0	1.0	1.8	2.7	1.0
HC77-2204	2.3	1.0	1.0	1.0	1.0	2.3	1.0	1.3	2.5	1.3
HC78-1119	3.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	2.5	1.8
HC79-1644	2.3	1.0	1.0	1.0	1.0	2.3	1.0	1.0	2.5	1.3
HC80-597	1.5	1.0	1.0	1.0	1.0	2.0	1.0	1.0	2.5	1.0
HC80-1092	2.3	1.0	1.0	1.0	1.0	2.2	1.2	1.0	3.3	1.0
HC80-1211	2.2	1.0	1.0	1.0	1.0	1.7	1.2	1.0	2.3	1.3
HC81-1134	2.5	1.0	1.0	1.0	1.0	2.3	1.2	1.0	3.0	1.5
K1106	2.3	1.0	1.0	1.0	1.3	2.7	1.0	1.7	2.8	1.0
L81L-97	3.0	1.0	1.0	-	2.2	3.0	1.2	2.2	3.0	1.0
LS78W-110	3.0	1.0	1.5	1.8	3.0	3.0	1.7	2.5	3.3	2.0
LS80-6521	2.5	1.0	1.0	1.0	2.2	3.3	1.0	1.8	2.2	1.5
Md79-5043	2.0	1.0	1.0	1.0	1.3	3.0	1.0	2.3	2.8	1.3
Md80-IL2-1	3.0	1.0	1.0	1.7	3.8	3.3	1.3	1.8	3.2	1.8

* NOT INCLUDED IN THE MEAN

UNIFORM TEST IV, 1985

PLANT HEIGHT (Inches)

Strain	Mean 17 Tests	Belle-ville IL	Carbondale IL	Eldorado IL	Lafayette IN	Sullivan IN	Man-hattan KS	Topeka KS	Lexington KY
Douglas	35	36	38	20	40	31	44	42	43
Franklin	41	49	44	32	45	37	43	48	47
Pixie	21	21	24	16	25	21	19	23	25
Sparks (IV)	38	41	40	24	41	34	44	47	46
Williams 82(III)	35	42	39	31	41	32	41	49	41
C1635	32	41	40	26	37	31	40	43	35
C1653	34	40	39	23	38	31	42	45	39
C1657	37	44	42	29	42	33	43	48	46
HC77-2204	24	24	22	16	31	24	26	24	26
HC78-1119	21	20	22	16	25	22	26	22	24
HC79-1644	21	18	23	14	26	20	19	23	25
HC80-597	22	22	24	13	25	21	19	22	25
HC80-1092	21	19	23	15	26	21	22	24	26
HC80-1211	21	18	23	14	27	20	19	24	24
HC81-1134	23	21	24	16	28	22	23	25	27
K1106	32	38	37	26	37	28	35	40	37
L81L-97	36	45	39	27	39	32	42	46	40
LS78W-110	40	49	41	34	47	39	42	49	45
LS80-6521	37	49	40	30	40	35	45	44	40
Md79-5043	36	45	41	26	40	34	46	45	39
Md80-IL2-1	41	51	44	33	44	39	41	53	45

* NOT INCLUDED IN THE MEAN

UNIFORM TEST IV, 1985

PLANT HEIGHT (Inches)

Strain	Queens-town MD	Portageville MO		Columbia MO	Lincoln NE	Adelphia NJ	Ripley OH	S.Charles-ton* OH	Landis-ville PA	Orange VA
		Clay	Loam							
Douglas	33	24	29	27	48	38	35	34	34	35
Franklin	34	28	42	35	48	46	42	41	38	41
Pixie	25	13	13	17	22	24	25	20	23	22
Sparks (IV)	37	20	30	32	52	39	42	39	37	37
Williams 82(III)	32	20	29	28	43	35	35	33	36	27
C1635	33	20	28	27	44	34	35	34	35	27
C1653	28	22	31	26	44	38	32	35	36	27
C1657	30	23	32	31	49	39	35	37	38	31
HC77-2204	26	14	13	20	29	28	30	27	27	28
HC78-1119	21	15	13	20	24	23	24	18	24	24
HC79-1644	21	14	16	19	25	24	23	18	24	23
HC80-597	25	14	16	19	29	26	26	17	28	27
HC80-1092	23	14	16	19	23	23	24	16	23	23
HC80-1211	21	14	12	18	25	23	24	19	25	23
HC81-1134	24	13	15	17	27	24	26	18	26	25
K1106	29	23	22	27	42	32	32	36	35	28
L81L-97	33	24	34	-	44	35	31	36	39	28
LS78W-110	35	27	37	35	45	45	41	43	39	35
LS80-6521	29	28	33	31	45	38	32	36	36	31
Md79-5043	30	24	31	31	45	34	31	34	37	31
Md80-IL2-1	39	24	28	37	55	42	41	42	43	43

* NOT INCLUDED IN THE MEAN

UNIFORM TEST IV, 1985

SEED QUALITY (Score)

Strain	Mean 17 Tests	Belle-ville IL	Carbondale IL	Eldorado IL	Lafayette IN	Sullivan IN	Man-hattan KS	Topeka KS	Lexington KY
Douglas	2.8	3.0	3.0	4.3	3.0	3.5	3.0	3.0	2.0
Franklin	2.5	3.5	5.0	4.5	2.0	2.0	3.0	2.5	1.0
Pixie	1.8	2.0	2.0	1.3	1.0	2.0	1.5	2.0	2.0
Sparks (IV)	2.6	2.3	3.0	2.2	2.0	2.5	2.5	2.5	3.0
Williams 82 (III)	2.2	1.8	3.0	2.3	2.0	2.0	1.5	3.0	1.0
C1635	2.7	2.3	2.0	2.0	2.5	3.5	3.0	3.5	2.0
C1653	2.6	2.2	4.0	2.5	2.5	3.5	3.0	2.5	1.0
C1657	2.3	2.2	2.0	1.8	2.0	3.0	2.0	3.5	1.0
HC77-2204	1.7	1.5	3.0	1.5	1.5	2.0	1.0	2.5	1.0
HC78-1119	2.2	2.2	3.0	3.5	2.0	2.0	1.8	2.5	2.0
HC79-1644	1.7	1.5	3.0	1.5	1.0	1.5	2.0	2.5	1.0
HC80-597	2.0	2.3	3.0	2.2	1.5	2.0	1.5	2.5	1.0
HC80-1092	1.9	2.5	2.0	2.0	1.5	2.5	2.0	2.0	1.0
HC80-1211	2.0	2.2	2.0	2.0	2.0	1.5	2.5	3.0	2.0
HC81-1134	1.7	1.7	3.0	2.3	1.5	1.5	1.5	2.0	1.0
K1106	2.1	1.7	2.0	2.0	2.0	2.0	2.0	3.0	1.0
L81L-97	2.2	1.8	2.0	1.5	2.5	2.0	2.0	3.0	2.0
LS78W-110	2.1	2.2	1.0	3.8	2.5	2.0	3.0	2.0	2.0
LS80-6521	2.1	1.5	2.0	3.5	1.5	1.5	2.5	3.0	2.0
Md79-5043	2.3	2.2	3.0	2.0	2.5	2.0	2.0	3.0	2.0
Md80-IL2-1	2.4	2.2	3.0	4.3	2.5	2.0	2.0	2.5	2.0

* NOT INCLUDED IN THE MEAN

UNIFORM TEST IV, 1985

SEED QUALITY (Score)

Strain	Queens-town MD	Portageville MO Clay	Portageville MO Loam	Columbia MO	Lincoln NE	Adelphia NJ	Ripley OH	S.Charles-ton* OH	Landis-ville PA	Orange VA
Douglas	4.2	3.0	2.0	2.3	1.3	3.0	3.0	2.5	2.0	2.3
Franklin	2.3	4.0	3.0	1.3	1.3	2.0	1.5	1.0	2.0	1.6
Pixie	1.7	3.0	2.0	1.5	1.0	2.0	2.0	1.5	2.0	1.5
Sparks (IV)	3.0	3.0	2.0	2.3	1.5	3.3	4.0	2.0	2.5	2.4
Williams 82 (III)	2.5	4.0	2.0	2.0	1.5	2.7	2.0	1.0	2.0	2.1
C1635	2.5	4.0	3.0	2.5	1.7	3.0	3.0	1.5	2.5	2.4
C1653	3.0	4.0	2.0	2.3	1.5	3.0	3.0	1.5	2.0	2.1
C1657	2.7	4.0	2.0	2.2	1.3	2.0	3.5	1.5	2.0	1.9
HC77-2204	1.5	3.0	2.0	1.3	1.0	1.3	1.0	1.0	2.0	1.4
HC78-1119	2.7	4.0	2.0	1.3	1.0	2.0	1.5	1.0	2.0	1.9
HC79-1644	1.7	3.0	2.0	1.3	1.0	1.7	1.5	1.5	2.0	1.5
HC80-597	2.3	3.0	3.0	1.3	1.0	2.0	2.5	2.0	1.5	1.8
HC80-1092	2.2	3.0	2.0	1.3	1.0	2.0	2.0	1.5	2.0	1.6
HC80-1211	1.7	3.0	3.0	1.7	1.0	1.3	2.5	1.5	1.5	1.6
HC81-1134	2.0	3.0	2.0	1.8	1.0	1.0	1.0	1.0	1.5	1.5
K1106	3.0	4.0	3.0	2.0	1.2	2.0	1.5	1.0	2.0	1.9
L81L-97	2.5	4.0	2.0	-	1.5	2.3	2.0	1.5	2.5	2.1
LS78W-110	2.3	4.0	3.0	2.2	1.3	2.0	1.5	1.5	2.5	2.1
LS80-6521	3.0	4.0	2.0	1.5	1.2	2.0	1.0	1.0	2.5	1.6
Md79-5043	2.5	3.0	3.0	2.2	1.3	2.7	2.0	1.5	2.5	1.8
Md80-IL2-1	3.0	4.0	3.0	1.3	1.0	2.0	1.5	1.5	2.5	2.0

* NOT INCLUDED IN THE MEAN

UNIFORM TEST IV, 1985

SEED SIZE (g/100)

Strain	Mean 16 Tests	Belle-ville IL	Carbondale IL	Eldorado IL	Lafayette IN	Sullivan IN	Man-hattan KS	Topeka KS	Lexington KY
Douglas	18.4	16.7	18.9	12.0	19.4	20.9	19.4	22.4	15.4
Franklin	15.6	14.7	15.3	11.7	17.1	18.3	15.8	17.7	14.2
Pixie	17.4	15.0	18.2	14.1	17.9	21.9	16.3	20.3	17.1
Sparks (IV)	17.5	14.3	16.6	12.3	20.9	22.9	15.9	19.4	15.5
Williams 82 (III)	17.7	15.2	15.8	13.5	17.7	20.4	16.9	20.1	17.7
C1635	19.1	16.9	16.6	14.0	20.2	23.1	19.2	20.6	17.4
C1653	18.5	16.4	16.4	13.3	20.2	22.9	17.2	21.0	17.2
C1657	17.8	15.4	16.5	13.9	18.9	20.4	16.9	19.6	17.4
HC77-2204	14.4	12.8	14.1	11.0	15.6	16.8	13.3	17.2	12.7
HC78-1119	18.9	17.3	17.5	15.0	19.4	22.9	17.1	22.1	18.3
HC79-1644	16.7	14.5	16.6	10.8	18.8	19.4	16.1	19.5	15.6
HC80-597	19.2	17.8	15.8	13.7	21.5	23.2	18.0	24.5	18.1
HC80-1092	18.1	16.2	17.0	13.6	20.0	23.9	16.7	19.8	17.5
HC80-1211	15.0	12.9	13.5	10.1	16.4	18.1	14.4	17.7	14.5
HC81-1134	17.1	15.8	16.8	11.4	19.4	21.2	17.6	19.4	15.2
K1106	17.3	15.0	15.4	13.7	17.6	22.1	16.0	19.0	16.1
L81L-97	18.0	15.7	16.0	11.9	18.7	22.0	16.6	18.8	17.8
LS78W-110	14.9	14.0	13.4	11.3	15.4	17.1	14.5	15.6	13.6
LS80-6521	16.4	15.7	15.9	13.0	15.8	19.3	16.0	19.1	14.2
Md79-5043	17.5	17.1	16.1	12.9	17.8	22.2	15.6	19.2	17.0
Md80-IL2-1	16.5	14.7	13.7	12.7	26.8	20.6	16.4	17.8	14.0

* NOT INCLUDED IN THE MEAN

UNIFORM TEST IV, 1985

SEED SIZE (g/100)

Strain	Queens-town MD	Portageville MO		Columbia MO	Lincoln NE	Adelphia NJ	Ripley OH	S.Charles-ton* OH	Landis-ville PA	Orange VA
		Clay	Loam							
Douglas	20.5		17.0	16.6	17.9	20.0	17.9	19.2	19.2	20.8
Franklin	16.4		14.0	13.6	14.7	17.5	14.5	16.2	15.0	18.3
Pixie	16.9		14.9	12.3	19.8	19.0	16.2	15.0	18.4	20.4
Sparks (IV)	19.5		15.0	14.1	19.3	18.5	19.1	19.6	15.7	21.4
Williams 82 (III)	19.8		15.2	14.6	19.8	18.5	17.6	18.9	18.1	22.4
C1635	21.8		16.4	16.9	21.4	19.5	19.1	21.2	19.7	22.8
C1653	20.2		15.1	15.8	19.0	20.5	19.1	19.9	17.9	23.8
C1657	19.1		15.4	13.0	19.2	19.5	18.5	19.2	18.6	22.9
HC77-2204	14.6		13.8	11.6	14.9	16.5	14.4	14.9	14.3	16.9
HC78-1119	18.5		18.9	13.5	21.0	20.0	17.4	17.7	20.7	22.8
HC79-1644	16.3		14.3	13.6	18.7	18.0	16.1	15.3	19.0	19.4
HC80-597	19.9		18.7	13.5	21.7	19.5	17.7	16.2	20.1	22.7
HC80-1092	19.2		16.5	14.3	20.2	20.5	14.9	14.2	17.2	22.5
HC80-1211	15.0		14.3	11.2	17.1	17.0	14.3	14.8	15.1	18.5
HC81-1134	17.5		17.9	12.2	19.3	18.0	15.2	16.7	16.5	20.3
K1106	19.9		15.6	14.6	19.1	18.0	16.1	17.8	17.0	21.4
L81L-97	18.9		15.1	-	20.1	20.5	17.9	18.6	17.3	22.5
LS78W-110	17.7		13.9	12.4	14.8	16.0	16.8	15.5	15.3	16.8
LS80-6521	17.8		14.2	13.3	16.4	18.0	16.1	15.4	17.8	19.2
Md79-5043	20.0		16.0	14.1	18.2	18.0	16.0	18.4	19.5	19.6
Md80-IL2-1	16.4		14.8	13.2	15.9	18.0	15.0	17.0	16.2	18.4

* NOT INCLUDED IN THE MEAN

UNIFORM TEST IV, 1985

PROTEIN (%)

Strain	Mean 5 Tests	Eldorado IL	Lafayette IN	Manhattan KS	Queens-town MD	Ripley OH
Douglas	41.3	-	43.4	40.0	41.9	39.8
Franklin	39.3	40.2	41.7	38.3	39.2	37.2
Pixie	41.6	41.8	41.7	40.0	41.5	43.2
Sparks (IV)	39.9	41.0	41.4	37.9	40.4	38.7
Williams 82(III)	41.6	41.8	42.6	41.7	41.3	40.7
C1635	43.1	43.4	45.0	42.1	43.4	41.8
C1653	40.7	41.5	42.9	39.4	41.0	38.7
C1657	41.3	41.9	43.6	41.2	41.4	38.3
HC77-2204	39.8	39.9	42.2	37.8	40.8	38.2
HC78-1119	43.8	44.8	44.6	42.9	44.1	42.8
HC79-1644	40.2	40.3	40.2	39.8	40.8	40.1
HC80-597	40.6	41.5	40.8	39.3	41.3	40.0
HC80-1092	40.4	41.7	39.8	39.5	40.7	40.1
HC80-1211	41.4	42.7	41.1	40.7	41.5	41.0
HC81-1134	42.2	42.4	43.4	42.8	42.2	40.4
K1106	41.5	42.0	42.1	41.4	41.8	40.3
L81L-97	41.4	41.7	42.8	40.7	40.5	39.6
LS78W-110	40.7	41.8	42.4	38.3	40.8	40.1
LS80-6521	40.8	41.5	41.7	40.9	41.1	38.7
Md79-5043	43.0	44.1	44.6	42.3	43.5	40.4
Md80-IL2-1	41.5	43.8	42.0	40.2	42.6	38.8

UNIFORM TEST IV, 1985

OIL (%)

Strain	Mean 5 Tests	Eldorado IL	Lafayette IN	Manhattan KS	Queens-town MD	Ripley OH
Douglas	21.5	-	20.2	22.5	21.9	21.5
Franklin	22.0	22.0	20.0	22.4	22.7	22.8
Pixie	21.9	21.8	21.7	22.7	22.6	20.6
Sparks (IV)	22.0	20.1	21.0	23.5	23.4	21.9
Williams 82(III)	22.2	21.3	21.7	22.6	23.2	22.3
C1635	21.4	20.8	19.9	22.6	22.1	21.7
C1653	22.3	22.1	20.3	24.1	22.6	22.6
C1657	21.1	20.1	20.0	21.5	21.8	22.2
HC77-2204	21.8	21.3	20.0	22.8	22.5	22.3
HC78-1119	21.9	21.7	20.8	22.5	22.8	21.5
HC79-1644	23.1	22.6	22.8	23.1	24.1	23.0
HC80-597	22.5	21.9	21.7	23.5	23.0	22.4
HC80-1092	22.7	22.5	22.4	23.8	23.3	21.6
HC80-1211	21.8	20.5	22.0	22.5	22.6	21.2
HC81-1134	21.4	20.8	20.3	21.4	22.2	22.2
K1106	21.9	21.4	21.0	22.3	22.7	21.9
L81L-97	22.4	21.8	21.0	23.3	23.9	22.2
LS78W-110	20.7	20.4	18.8	23.0	21.4	20.1
LS80-6521	22.1	21.8	19.9	23.3	22.6	22.7
Md79-5043	21.1	20.0	20.0	21.8	21.2	22.6
Md80-IL2-1	21.5	20.9	19.9	22.5	21.7	22.7

PRELIMINARY TEST IVA, 1985

Strain	Parentage	Generation Composited
Franklin	L12 x Custer	F_3
Sparks (IV)	Williams x Calland	F_6
Williams 82 (III)	Williams^7 x Kingwa	$4BC_6F_3$
HM8469	A3127^2 x Williams 82	BC_1F_4
HM8467	A3127^2 x Williams 82	BC_1F_4
HM8487	A3127 x Williams 82	F_6
HM8498	Hardin^2 x Williams 82	BC_1F_4
HM84100	(Hardin x Wms 82) x (A3127 x Wms 82)	F_6
Ky82-0865	Desoto x Essex	F_5
Ky82-1619	Douglas x Elf	F_5
LN82-2366	Sprite x L75-3632	F_5
LN82-3243	Williams 82 x Hardin	F_5
LN82-4049	Williams 82 x L73-4673	F_5
LN82-4433	Williams 82 x Century	F_5
LN82-7866	K1056 x L75-3632	F_5
LN82-9710	K74-113-76-486 x Century	F_5
LS81-A5607	Forrest x Mitchell	F_4
LS81-B1818	Mack x Cutler 71	F_5
LS81-B1914	Mack x Union	F_5
LS81-B2007	Mack x Union	F_5
LS81-Ora616	Dyer x Wells	F_4
Md81-0838	PI88302-1 x A75-305022	F_5
Md81-0953	A75-305022 x Elf	F_5
Md82-5230	A75-305010 x Miles	F_5
Md82-5770	Md70-2221-71 x Miles	F_5
S81-2203	Crawford x J74-67-7	F_5
S82-1034	Bedford x S78-5078	F_5
S82-1044	Cumberland x Forrest	F_5

PRELIMINARY TEST 1VA, 1985

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Shattering Score Eldorado 10/4	Shattering Score Eldorado 11/8	Shattering Score Manhattan	BP Eldorado Reaction	BSR Plant N %	BSR Stem N %
Franklin	PGBDYIb	I	1.0	3.0	1.0	R	100	63.0
Sparks (IV)	WTTSYBL	I	3.5	4.5	1.0	R	100	62.1
Williams 82(III)	WTTSYBL	I	1.0	2.0	1.0	R	100	69.0
HM8469	PTTDYBL	I	1.0	3.0	1.0	R	100	78.3
HM8467	PTTDYBL+Br	I	1.0	1.5	1.0	R	90	57.7
HM8487	WTTDYIb	I	1.7	4.0	1.0	R	100	76.4
HM8498	PGBDYIb	I	3.0	5.0	1.0	S	100	89.8
HM84100	WTBSYBL	I	3.0	2.5	1.0	S	90	66.8
Ky82-0865	PTTDYBL	I	1.0	2.5	1.0	S	100	64.2
Ky82-1619	WTBDYBL	I	1.0	1.5	1.0	R	100	85.2
LN82-2366	P+WGTSYBf	I	1.5	2.0	1.0	R	100	66.2
LN82-3243	WTTDYBr	I	1.0	2.0	1.0	R	90	62.6
LN82-4049	WGTDYY	I	1.0	1.0	1.0	R	100	48.8
LN82-4433	PTBDYBL	I	1.0	2.0	1.0	R	100	42.2
LN82-7866	P+WGBSYBf	I	1.0	2.0	1.0	R	90	58.9
LN82-9710	WTTDYBL	I	1.5	2.5	1.0	S	100	73.4
LS81-A5607	WTTSYBL	I	1.0	2.0	1.0	R	90	46.2
LS81-B1818	P+WTTSYBL	I	1.0	2.0	1.0	R	100	49.0
LS81-B1914	WTTSYBL	I	1.0	2.0	1.0	R	100	71.3
LS81-B2007	WTTSYBL	I	1.0	2.0	1.0	R	100	65.7
LS81-Ora616	WTTDYBL	I	2.0	3.0	1.0	R	100	72.2
MD81-0838	PGTSYBf	I	1.0	2.0	1.0	S	100	57.4
Md81-0953	WTTSYBr	I	1.0	1.0	1.0	R	100	70.2
Md82-5230	WTTDYBL+Br	I	1.8	2.5	1.0	S	100	96.3
Md82-5770	PTTDYBL	I	1.0	1.0	1.0	S	100	62.2
S81-2203	PTBDYBL	I	1.0	1.0	1.0	R	90	52.8
S82-1034	WTTSYBL	I	1.0	1.0	1.0	S	100	55.3
S82-1044	WGTSYBf	I	1.0	3.0	1.0	R	70	33.7

PRELIMINARY TEST IVA, 1985

DISEASE DATA

Strain	PR			PS	PSB	SMV	Germ
	Ames	Lafayette	Vickery				
	Race4	Race1	Tolerance	a	n	a	
	--Reaction--		Score	%	%	Score	%
Franklin	S	R	2.5	17	12	3M	86
Sparks (IV)	S	R	2.8	16	22	5E	74
Williams 82 (III)	R	R	2.4	13	0	5M	92
HM8469	S	R	2.6	10	0	4M	96
HM8467	R	R	2.8	8	4	3M	92
HM8487	R	R	2.5	15	6	4M	92
HM8498	R	R	2.5	33	20	5E	74
HM84100	R	R	2.5	12	14	5E	88
Ky82-0865	S	S	2.6	5	0	5M	99
Ky82-1619	S	R	2.8	24	6	4M	86
LN82-2366	S	S	2.9	38	2	2M	90
LN82-3243	R	R	2.5	12	8	5E	80
LN82-4049	S	H	3.1	17	0	5E	92
LN82-4433	R	R	2.3	2	10	5E	84
LN82-7866	R	R	2.6	3	2	4E	92
LN82-9710	R	R	2.4	9	10	5E	88
LS81-A5607	S	H	2.6	12	4	4E	94
LS81-B1818	S	R	1.8	9	6	5E	94
LS81-B1914	S	R	1.9	9	16	5E	66
LS81-B2007	S	R	2.0	17	4	5E	92
LS81-Ora616	S	S	4.1	17	10	5E	84
Md81-0838	R	R	2.0	18	2	3M	96
Md81-0953	S	S	2.8	7	2	4E	96
Md82-5230	S	H	2.9	6	2	5E	92
Md82-5770	S	S	2.3	2	6	5E	92
S81-2203	S	H	2.3	5	4	5S	88
S82-1034	S	R	1.9	0	6	5S	96
S82-1044	S	S	2.4	9	2	4M	92

PRELIMINARY TEST IVA, 1985

Regional Summary

Strain No. of Tests	Yield 8 bu/a	Rank 8 No.	Maturity 8 Date	Lodging 8 Score	Plant Height 8 In	Seed Quality 8 Score	Seed Size 8 g/100	Composition Protein 5 %	Oil 5 %
Franklin	42.3	23	+3.1	2.2	42	2.8	15.2	40.0	21.7
Sparks (IV)	44.0	15	9-26.0*	2.1	39	3.0	17.2	41.2	21.5
Williams 82 (III)	46.2	7	-1.8	1.7	37	2.3	17.2	42.5	21.9
HM8469	49.8	2	-2.0	1.4	34	2.1	15.3	42.2	21.6
HM8467	47.2	6	-2.5	1.3	32	1.8	16.2	42.5	21.4
HM8487	48.2	4	-4.3	1.8	36	2.6	17.4	42.9	21.8
HM8498	42.4	21	-5.1	2.4	40	2.5	14.8	42.1	22.1
HM84100	46.0	8	-3.0	1.8	34	2.4	17.2	42.0	22.8
Ky82-0865	44.5	14	+2.8	1.2	33	2.7	14.7	41.3	20.8
Ky82-1619	42.6	20	+6.8	1.7	35	3.2	17.5	42.5	21.2
LN82-2366	51.5	1	-1.1	1.7	33	2.1	18.2	41.1	23.1
LN82-3243	44.9	10	+1.9	2.9	41	2.5	15.5	43.5	20.3
LN82-4049	45.4	9	+3.3	2.3	39	2.6	18.9	44.8	20.2
LN82-4433	48.0	5	+1.5	1.4	35	2.4	16.5	41.1	21.6
LN82-7866	44.8	11	+1.6	1.7	38	2.4	16.4	43.0	21.1
LN82-9710	44.0	15	+0.4	1.5	31	2.3	17.4	42.3	20.8
LS81-A5607	44.8	11	+6.9	2.4	45	2.4	15.0	41.6	21.1
LS81-B1818	43.4	19	+4.8	1.9	40	2.0	16.5	41.4	21.6
LS81-B1914	37.4	26	+6.5	2.6	43	2.4	15.6	41.6	22.0
LS81-B2007	42.4	21	+8.0	2.2	45	2.3	16.1	40.6	22.0
LS81-Ora616	36.6	27	+6.0	1.9	40	2.9	15.7	40.7	22.2
Md81-0838	43.8	18	-0.5	1.6	39	2.2	19.4	41.0	22.5
Md81-0953	48.7	3	+1.1	2.0	39	2.1	16.2	41.8	22.0
Md82-5230	44.6	13	+2.6	1.9	40	2.6	15.0	42.2	21.0
Md82-5770	40.7	25	+4.4	2.1	36	1.9	14.6	41.5	21.8
S81-2203	41.6	24	+7.0	2.3	38	2.7	16.9	43.2	20.6
S82-1034	32.7	28	+10.0	3.2	37	1.5	8.6	42.1	18.9
S82-1044	44.0	15	+6.1	1.8	39	1.9	13.3	42.4	20.4

* 130 Days After Planting

Several strains were superior to the check varieties in seed yield and had excellent resistance to lodging. Differential resistance to shattering was apparent among strains at Eldorado in 1985. Three strains, LS81-B1818, LS81-B1919, and S82-1034 all had phytophthora tolerance scores less than 2.0.

PRELIMINARY TEST IVA, 1985

YIELD (bu/a)

Strain	Mean 8 Tests	Carbondale IL	Eldorado IL	Sullivan IN
Franklin	42.3	47.0	42.5	40.6
Sparks (IV)	44.0	51.0	20.7	40.0
Williams 82 (III)	46.2	37.0	46.6	45.1
HM8469	49.8	39.5	44.2	59.8
HM8467	47.2	41.5	41.8	49.6
HM8487	48.2	44.0	38.9	48.3
HM8498	42.4	30.0	26.9	48.1
HM84100	46.0	40.5	28.4	50.5
Ky82-0865	44.5	38.5	37.4	49.4
Ky82-1619	42.6	44.5	31.1	41.1
LN82-2366	51.5	60.0	37.3	47.0
LN82-3243	44.9	41.0	41.3	46.1
LN82-4049	45.4	48.0	44.2	46.9
LN82-4433	48.0	50.5	43.1	48.7
LN82-7866	44.8	45.0	41.8	46.7
LN82-9710	44.0	42.5	35.5	46.5
LS81-A5607	44.8	44.5	49.3	45.4
LS81-B1818	43.4	45.5	43.2	44.7
LS81-B1914	37.4	35.0	45.5	41.2
LS81-B2007	42.4	41.5	47.3	46.8
LS81-Ora616	36.6	39.5	21.7	37.1
Md81-0838	43.8	44.0	39.8	45.2
Md81-0953	48.7	52.0	52.2	49.7
Md82-5230	44.6	48.5	29.8	43.6
Md82-5770	40.7	33.0	38.5	47.5
S81-2203	41.6	44.5	44.8	44.9
S82-1034	32.7	35.5	35.3	31.7
S82-1044	44.0	44.0	40.2	47.6
C.V. (%)		10.0	13.4	7.4
L.S.D. (5%)		8.8	10.6	5.6
Row Sp. (In.)		30	30	15
Rows/Plot		4	4	5
Reps		2	2	2

PRELIMINARY TEST IVA, 1985

YIELD (bu/a)

Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	S. Charleston OH
31.2	41.6	46.6	40.2	49.0
36.7	50.9	56.4	46.2	50.1
41.0	48.2	50.0	48.5	53.5
44.7	49.9	51.0	46.3	62.6
43.5	51.7	51.9	43.4	53.8
45.4	49.1	53.2	43.3	63.0
48.6	47.7	46.2	41.1	50.4
42.8	52.2	54.7	41.5	57.5
39.8	48.9	48.4	41.1	52.8
32.7	46.4	50.4	42.2	52.1
51.2	59.7	53.7	48.5	54.8
37.2	45.2	51.3	41.9	55.2
39.6	48.0	47.5	42.6	46.4
39.2	45.6	51.2	48.7	56.6
38.8	42.7	50.3	44.2	49.1
36.8	50.4	51.3	39.5	49.5
33.2	39.8	50.6	43.7	52.1
34.0	40.3	49.2	42.4	47.5
27.4	29.7	44.4	37.1	38.9
30.7	39.2	45.7	38.0	49.9
30.1	34.5	43.1	35.9	50.6
31.4	48.9	52.0	38.7	50.0
38.9	50.8	51.7	41.6	52.9
35.8	54.8	46.5	43.3	54.6
30.7	41.2	46.2	42.4	46.0
31.6	36.6	44.7	40.7	44.6
22.7	26.7	39.1	28.3	42.1
33.7	39.2	50.9	43.4	53.1
7.1	6.3	6.1	-	-
5.4	3.6	6.1	-	-
30	30	30	30	30
4	4	4	4	4
2	2	2	2	2

PRELIMINARY TEST IVA, 1985

YIELD RANK

Strain	Yield Rank	Carbondale IL	Eldorado IL	Sullivan IN
Franklin	23	7	11	25
Sparks (IV)	15	3	28	26
Williams 82 (III)	7	24	4	19
HM8469	2	21	7	1
HM8467	6	17	12	4
HM8487	4	13	17	7
HM8498	21	28	26	8
HM84100	8	20	25	2
Ky82-0865	14	23	19	5
Ky82-1619	20	10	23	24
LN82-2366	1	1	20	11
LN82-3243	10	19	14	16
LN82-4049	9	6	7	12
LN82-4433	5	4	10	6
LN82-7866	11	9	12	14
LN82-9710	15	16	21	15
LS81-A5607	11	10	2	17
LS81-B1818	19	8	9	21
LS81-B1914	26	26	5	23
LS81-B2007	21	17	3	13
LS81-Ora616	27	21	27	27
Md81-0838	18	13	16	18
Md81-0953	3	2	1	3
Md82-5230	13	5	24	22
Md82-5770	25	27	18	10
S81-2203	24	10	6	20
S82-1034	28	25	22	28
S82-1044	15	13	15	9

PRELIMINARY TEST IVA, 1985

YIELD RANK

Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	S. Charleston OH
23	19	20	22	22
15	5	1	5	17
7	12	16	2	9
4	8	11	4	2
5	4	6	8	8
3	9	4	10	1
2	14	22	19	16
6	3	2	18	3
8	10	18	19	12
20	15	14	15	13
1	1	3	2	6
13	17	9	16	5
9	13	19	12	24
10	16	10	1	4
12	18	15	6	21
14	7	8	23	20
19	22	13	7	13
17	21	17	13	23
27	27	26	26	28
24	23	24	25	19
26	26	27	27	15
22	10	5	24	18
11	6	7	17	11
16	2	21	10	7
24	20	23	13	25
21	25	25	21	26
28	28	28	28	27
18	23	12	8	10

PRELIMINARY TEST IVA, 1985

MATURITY (Date)

Strain	Mean 8 Tests	Carbondale IL	Eldorado IL	Sullivan IN
Franklin	+3.1	-	+10	0
Sparks (IV)	9-26.0	10-2	9-11	10-1
Williams 82 (III)	-1.8	-2	+5	-3
HM8469	-2.0	-3	+5	-1
HM8467	-2.5	0	+2	-1
HM8487	-4.3	-3	+1	-4
HM8498	-5.1	0	-4	-3
HM84100	-3.0	-2	-2	-1
Ky82-0865	+2.8	+2	+10	+3
Ky82-1619	+6.8	+5	+14	+3
LN82-2366	-1.1	+4	+2	+4
LN82-3243	+1.9	+3	+7	-1
LN82-4049	+3.3	+4	+9	+2
LN82-4433	+1.5	+4	+6	0
LN82-7866	+1.6	+5	+6	+1
LN82-9710	+0.4	0	+3	+1
LS81-A5607	+6.9	+5	+15	+1
LS81-B1818	+4.8	+5	+10	+1
LS81-B1914	+6.5	+6	+16	+2
LS81-B2007	+8.0	+6	+16	+3
LS81-Ora616	+6.0	+5	+22	0
Md81-0838	-0.5	+1	+10	-1
Md81-0953	+1.1	+4	+12	-1
Md82-5230	+2.6	+5	+5	+1
Md82-5770	+4.4	+2	+11	+2
S81-2203	+7.0	+5	+17	+4
S82-1034	+10.0	+5	+21	+5
S82-1044	+6.1	+6	+15	+1
Date Planted	5-19	5-31	5-8	5-28
Days to Mature	130	124	126	126

PRELIMINARY TEST IVA, 1985

MATURITY (Date)

Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	S. Charleston OH
+6	0	+1	+2	+3
9-27	10-2	9-26	9-18	10-1
0	-5	-2	-4	-3
-1	-7	-2	-3	-4
-2	-8	-4	-2	-5
-2	-9	-5	-6	-6
-5	-9	-6	-7	-7
-1	-5	-3	-6	-4
+2	-2	+2	+3	+2
+12	+4	+6	+4	+6
+2	-9	-2	-4	-6
+6	0	+1	-1	0
+9	0	+4	-1	-1
+1	+2	-1	+1	-1
+4	-6	+1	0	-2
+2	+2	-2	+1	-4
+15	+6	+5	+3	+5
+7	+2	+2	+5	+6
+10	+4	+4	+4	+6
+15	+6	+5	+6	+7
+7	+4	+3	+2	+5
-2	-4	-4	-3	-1
+4	-4	0	-5	-1
+4	+2	+1	+2	+1
+9	+4	+4	+1	+2
+8	+6	+5	+4	+7
+15	+8	+8	+10	+8
+10	+4	+6	+3	+4
5-17	5-31	6-3	5-7	4-30
133	124	115	134	154

PRELIMINARY TEST IVA, 1985

LODGING (Score)

Strain	Mean 8 Tests	Carbondale IL	Eldorado IL	Sullivan IN
Franklin	2.2	2.0	1.8	1.5
Sparks (IV)	2.1	2.0	2.0	1.5
Williams 82 (III)	1.7	1.5	2.1	1.0
HM8469	1.4	2.0	1.5	1.0
HM8467	1.3	1.0	1.3	1.0
HM8487	1.8	1.5	2.2	1.3
HM8498	2.4	2.0	2.1	1.8
HM84100	1.8	1.5	2.9	1.3
KY82-0865	1.2	1.5	1.2	1.0
Ky82-1619	1.7	1.0	1.3	1.0
LN82-2366	1.7	1.0	1.7	1.0
LN82-3243	2.9	3.5	3.3	2.5
LN82-4049	2.3	1.5	2.6	1.8
LN82-4433	1.4	1.5	1.5	1.0
LN82-7866	1.7	1.0	1.5	1.3
LN82-9710	1.5	1.0	1.2	1.3
LS81-A5607	2.4	2.0	1.6	1.5
LS81-B1318	1.9	1.0	1.5	1.5
LS81-B1914	2.6	2.0	2.6	1.8
LS81-B2007	2.2	1.5	2.1	1.5
LS81-Ora616	1.9	1.0	2.2	1.0
Md81-0838	1.6	1.5	1.4	1.0
Md81-0953	2.0	1.0	2.3	1.3
Md82-5230	1.9	1.0	1.8	1.5
Md82-5770	2.1	1.5	1.7	1.8
S81-2203	2.3	2.0	2.6	1.5
S82-1034	3.2	3.5	1.2	2.8
S82-1044	1.8	1.0	1.5	1.3

PRELIMINARY TEST IVA, 1985

LODGING (Score)

Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	S. Charleston OH
2.8	3.3	3.0	1.5	1.8
1.8	2.8	3.5	1.0	2.0
1.5	2.3	2.5	1.0	1.5
1.0	1.5	1.8	1.0	1.2
1.0	1.8	2.0	1.0	1.0
1.5	2.5	2.5	1.0	1.8
2.3	3.3	3.8	1.5	2.5
1.5	2.5	2.5	1.0	1.5
1.0	1.3	1.8	1.0	1.0
2.8	2.3	3.0	1.0	1.5
2.0	2.5	2.5	1.5	1.3
3.3	2.8	3.8	1.8	2.5
3.0	2.8	3.0	1.0	3.0
1.3	1.5	2.2	1.0	1.2
1.3	2.3	3.0	1.5	1.5
1.3	2.0	2.5	1.0	1.8
4.0	3.5	2.8	1.8	2.3
1.8	2.8	2.8	1.2	2.5
3.3	3.3	3.5	1.8	2.8
2.0	3.3	3.0	1.2	3.0
1.3	3.0	2.8	1.2	3.0
1.0	2.5	2.0	1.0	2.3
1.5	2.5	2.5	2.0	3.0
2.0	2.8	2.8	1.0	2.0
2.3	3.0	2.2	1.0	3.0
2.5	3.5	2.5	1.0	2.8
4.3	3.3	3.8	2.5	3.8
3.0	2.0	2.8	1.2	1.5

PRELIMINARY TEST IVA, 1985

PLANT HEIGHT (Inches)

Strain	Mean 8 Tests	Carbondale IL	Eldorado IL	Sullivan IN
Franklin	42	41	36	39
Sparks (IV)	39	39	23	36
Williams 82 (III)	37	35	34	34
HM8469	34	34	29	30
HM8467	32	34	28	28
HM8487	36	36	29	32
HM8498	40	41	30	33
HM84100	34	34	28	28
Ky82-0865	33	32	31	31
Ky82-1619	35	38	23	31
LN82-2366	33	34	28	26
LN82-3243	41	42	39	38
LN82-4049	39	39	35	34
LN82-4433	35	35	30	28
LN82-7866	38	39	32	35
LN82-9710	31	29	22	29
LS81-A5607	45	44	44	40
LS81-B1818	40	41	36	35
LS81-B1914	43	35	41	41
LS81-B2007	45	42	42	40
LS81-Ora616	40	40	31	37
Md81-0838	39	44	39	35
Md81-0953	39	52	37	32
Md82-5230	40	49	28	37
Md82-5770	36	33	36	33
S81-2203	38	46	39	35
S82-1034	37	36	26	39
S82-1044	39	44	32	34

PRELIMINARY TEST IVA, 1985

PLANT HEIGHT (Inches)

Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	S. Charleston OH
50	43	43	42	42
48	45	44	38	40
46	38	36	37	33
44	34	30	32	35
39	34	28	29	32
46	37	36	35	40
54	42	36	42	38
44	36	32	34	36
42	34	29	29	34
42	41	36	33	39
43	38	32	27	30
50	42	40	41	38
50	40	39	38	39
44	35	31	37	37
53	38	34	38	37
40	33	32	27	34
57	50	40	44	44
52	41	36	38	43
51	48	46	40	42
59	47	44	40	43
52	46	37	35	43
44	40	34	34	41
43	39	34	35	36
45	46	36	37	41
43	39	30	36	39
46	38	30	32	38
40	38	36	42	42
46	42	36	37	41

PRELIMINARY TEST IVA, 1985

SEED QUALITY (Score)

Strain	Mean 8 Tests	Carbondale IL	Eldorado IL	Sullivan IN
Franklin	2.8	5.0	4.3	2.5
Sparks (IV)	3.0	3.0	4.8	2.5
Williams 82 (III)	2.3	2.0	4.3	2.0
HM8469	2.1	2.0	3.5	2.0
HM8467	1.8	1.0	3.8	2.0
HM8487	2.6	3.0	4.3	2.0
HM8498	2.5	3.0	5.0	2.0
HM84100	2.4	1.0	4.8	2.0
Ky82-0865	2.7	2.0	3.0	3.0
Ky82-1619	3.2	3.0	4.0	3.0
LN82-2366	2.1	2.0	4.5	1.5
LN82-3243	2.5	3.0	4.3	2.0
LN82-4049	2.6	2.0	4.0	2.0
LN82-4433	2.4	2.0	4.3	2.0
LN82-7866	2.4	3.0	4.5	2.0
LN82-9710	2.3	2.0	4.3	2.0
LS81-A5607	2.4	2.0	3.8	2.0
LS81-B1818	2.0	2.0	3.3	2.5
LS81-B1914	2.4	3.0	4.8	2.5
LS81-B2007	2.3	2.0	3.5	1.5
LS81-Ora616	2.9	3.0	4.8	2.0
Md81-0838	2.2	2.0	4.3	2.0
Md81-0953	2.1	2.0	3.5	1.5
Md82-5230	2.6	2.0	4.3	2.5
Md82-5770	1.9	2.0	2.8	2.0
S81-2203	2.7	4.0	4.0	2.0
S82-1034	1.5	1.0	2.5	1.0
S82-1044	1.9	3.0	3.8	2.0

PRELIMINARY TEST IVA, 1985

SEED QUALITY (Score)

Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	S. Charleston OH
3.0	2.0	2.8	2.0	1.0
3.0	3.0	2.5	4.0	1.5
2.5	2.0	2.2	2.0	1.0
2.5	2.0	2.0	1.5	1.0
2.0	1.0	1.8	2.0	1.0
3.0	2.0	2.5	2.5	1.5
2.0	2.0	2.5	2.0	1.5
3.0	2.0	2.8	2.0	1.5
3.0	3.0	2.8	3.0	1.5
3.0	3.0	3.8	3.5	2.5
2.0	1.0	2.5	2.0	1.5
3.0	2.0	2.5	2.0	1.0
3.0	2.0	3.0	3.0	1.5
3.0	2.0	2.0	2.5	1.5
3.0	2.0	2.0	1.5	1.5
2.5	1.0	2.0	3.0	1.5
3.0	3.0	2.0	1.5	1.5
2.5	1.0	1.8	1.5	1.0
2.5	2.0	2.2	1.5	1.0
3.0	2.0	2.5	2.0	1.5
2.5	2.0	3.5	4.0	1.5
2.5	1.0	2.0	2.5	1.0
2.5	2.0	2.5	1.5	1.0
3.5	3.0	2.2	2.0	1.0
2.0	2.0	2.0	1.0	1.0
2.5	2.0	3.0	2.5	1.5
2.5	1.0	1.8	1.0	1.0
2.0	1.0	1.5	1.0	1.0

PRELIMINARY TEST IVA, 1985

SEED SIZE (g/100)

Strain	Mean 8 Tests	Carbondale IL	Eldorado IL	Sullivan IN
Franklin	15.2	15.3	11.8	17.7
Sparks (IV)	17.2	16.6	12.0	19.9
Williams 82 (III)	17.2	15.8	13.9	19.4
HM8469	15.3	15.6	11.7	17.2
HM8467	16.2	13.9	13.2	19.7
HM8487	17.4	17.3	14.4	20.2
HM8498	14.8	14.3	11.5	18.2
HM84100	17.2	16.8	13.3	20.9
KY82-0865	14.7	14.1	11.8	16.9
Ky82-1619	17.5	17.3	13.8	20.0
LN82-2366	18.2	18.0	15.8	21.1
LN82-3243	15.5	15.4	12.1	17.8
LN82-4049	18.9	18.4	15.8	20.6
LN82-4433	16.5	16.4	13.5	19.5
LN82-7866	16.4	15.6	13.5	18.9
LN82-9710	17.4	16.3	14.5	18.5
LS81-A5607	15.0	14.5	13.4	16.7
LS81-B1818	16.5	15.8	13.2	18.4
LS81-B1914	15.6	14.6	13.4	16.2
LS81-B2007	16.1	15.4	14.0	17.5
LS81-Ora616	15.7	15.0	12.7	16.5
Md81-0838	19 4	19.7	15.8	20.6
Md81-0953	16.2	17.4	14.1	17.6
Md82-5230	15.0	14.5	11.9	16.6
Md82-5770	14.6	12.8	12.5	16.8
S81-2203	16.9	17.0	15.0	19.7
S82-1034	8.6	8.4	7.7	10.1
S82-1044	13.3	13.1	10.5	15.7

PRELIMINARY TEST IVA, 1985

SEED SIZE (g/100)

Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	S. Charleston OH
14.5	13.8	16.4	16.5	15.8
16.9	16.7	18.0	18.5	19.3
15.9	16.5	19.6	17.3	18.9
15.7	15.3	16.2	14.7	15.9
16.5	16.9	17.6	15.2	16.8
17.5	16.9	18.8	15.9	18.5
14.6	13.2	16.4	14.0	16.4
16.1	16.7	18.2	16.4	18.8
14.0	13.8	15.5	15.6	15.9
16.0	17.5	19.2	17.0	19.3
17.5	18.1	19.0	17.3	18.6
13.7	15.1	15.7	16.5	17.7
18.7	17.6	21.0	18.9	20.0
16.2	15.4	18.0	15.7	17.3
16.6	13.9	18.0	15.4	19.0
17.7	16.7	19.8	17.7	17.9
15.2	14.0	15.0	15.1	16.0
17.3	15.9	16.6	17.8	17.2
16.4	14.0	17.3	16.8	16.3
16.2	14.5	17.0	16.8	17.6
14.8	14.8	17.8	16.2	17.8
19.5	18.7	20.4	19.7	21.1
15.2	15.8	17.7	16.0	15.9
13.9	16.4	17.5	14.2	15.2
13.5	12.8	16.5	16.8	15.2
13.5	15.5	18.3	18.0	18.1
8.1	7.1	8.8	8.8	9.5
13.0	11.5	14.2	13.9	14.1

PRELIMINARY TEST IVA, 1985

PROTEIN (%)

Strain	Mean 5 Tests	Eldorado IL	Sullivan IN	Manhattan KS	Queenstown MD	Ripley OH
Franklin	40.0	39.2	41.7	40.7	40.4	38.1
Sparks (IV)	41.2	41.1	41.9	41.4	41.5	40.0
Williams 82 (III)	42.5	42.0	42.8	44.5	42.2	40.9
HM8469	42.2	42.5	43.6	41.8	41.4	41.5
HM8467	42.5	42.8	43.3	42.3	42.0	42.0
HM8487	42.9	42.6	44.5	42.5	43.8	41.1
HM8498	42.1	42.1	44.6	41.2	40.9	41.8
HM84100	42.0	43.5	42.0	43.1	41.4	40.1
Ky82-0865	41.3	41.5	43.2	40.3	40.3	41.4
Ky82-1619	42.5	43.2	43.5	42.5	42.5	40.6
LN82-2366	41.1	42.1	42.0	41.3	39.4	40.6
LN82-3243	43.5	43.2	44.5	44.1	43.0	42.5
LN82-4049	44.8	44.3	45.5	45.8	44.7	43.7
LN82-4433	41.1	39.9	42.9	41.7	41.2	39.7
LN82-7866	43.0	44.2	44.8	41.9	43.0	41.0
LN82-9710	42.3	41.4	44.5	41.6	41.3	42.6
LS81-A5607	41.6	42.4	42.7	41.5	41.9	39.5
LS81-B1818	41.4	41.3	42.4	40.6	41.0	41.9
LS81-B1914	41.6	42.4	41.8	-	42.3	39.7
LS81-B2007	40.6	40.7	41.2	40.0	41.8	39.2
LS81-Ora616	40.7	41.3	41.2	41.1	42.1	37.9
Md81-0838	41.0	41.8	42.9	40.2	41.5	38.7
Md81-0953	41.8	42.3	41.9	43.3	40.3	41.1
Md82-5230	42.2	43.3	42.5	42.9	43.3	39.1
Md82-5770	41.5	41.6	43.2	41.7	41.7	39.4
S81-2203	43.2	42.3	44.4	45.0	43.0	41.5
S82-1034	42.1	43.5	42.3	41.3	43.1	40.5
S82-1044	42.4	42.5	43.2	43.5	41.9	41.0

PRELIMINARY TEST IVA, 1985

OIL (%)

Mean 5 Tests	Eldorado IL	Sullivan IN	Manhattan KS	Queenstown MD	Ripley OH
21.7	22.5	20.4	21.2	22.5	22.1
21.5	20.8	20.9	21.2	22.6	22.1
21.9	21.7	21.1	21.0	23.2	22.4
21.6	21.7	20.1	22.2	23.2	21.0
21.4	21.5	19.9	21.2	22.7	21.5
21.8	21.9	21.0	21.9	22.8	21.5
22.1	22.2	21.4	22.3	23.3	21.1
22.8	23.9	21.9	21.3	23.5	23.3
20.8	21.4	19.2	21.5	22.0	20.1
21.2	21.7	20.6	20.8	21.8	21.3
23.1	23.9	21.9	22.7	24.2	22.9
20.3	20.5	20.0	18.9	21.3	20.9
20.2	20.4	20.1	19.4	21.2	20.1
21.6	21.7	20.3	21.4	22.6	21.9
21.1	21.1	19.5	21.7	21.6	21.7
20.8	21.2	19.6	20.9	22.5	19.7
21.1	20.9	20.3	21.4	21.0	21.9
21.6	21.8	20.3	22.2	22.3	21.5
22.0	22.1	21.6	-	22.1	22.2
22.0	21.9	21.3	22.2	22.2	22.3
22.2	23.0	20.8	22.3	22.0	22.9
22.5	22.9	20.8	23.2	23.0	22.7
22.0	22.1	20.8	21.2	23.5	22.2
21.0	20.1	20.4	20.8	21.8	21.9
21.8	21.7	21.4	21.6	22.9	21.4
20.6	20.5	20.5	19.4	21.9	20.7
18.9	17.3	18.7	19.9	19.3	19.5
20.4	19.7	20.2	20.3	21.4	20.4

PRELIMINARY TEST IVB, 1985

Strain	Parentage	Generation Composited
Sparks (IV)	Williams x Calland	F_6
Williams 82 (III)	Williams[7] x Kingwa	$4BC_6F_3$
C1662	A75-305022 x Century	F_6
C1665	Nebsoy x A75-305022	F_6
C1666	Williams 82 x CX540-21-1-2-1-2-1-1	F_6
C1683	M70-128 x CX663-37-2-2	F_6
C1685	Lakota x CX663-37-2-2	F_6
K1117	Hobbit x K74-115-76-754	F_5
K1118	Douglas x Century	F_5
K1119	K1022 x Essex	F_5
HC77-2204	L72U-2567 x Essex	F_5
C1668	Hobbit x CX663-37-2-2	F_6
C1670	Hobbit x CX663-37-2-2	F_6
C1673	Hobbit x K1048	F_6
HC73-1922	L72U-2567 x Essex	F_5
HC79-1264	L72U-2567 x Essex	F_5
HC79-3962	L74D200 x Elf	F_5
HC80-256	Essex x Elf	F_5
HC80-1420	Essex x HC74-3400	F_5
HC80-1626	HC75-5605 x Sprite	F_5
HC80-2272	Gnome x Essex	F_5
HC80-5894	L72U2567 x Ransom	F_5
HC81-799	Ransom x Williams	F_5
HC81-817	Ransom x Union	F_5
HC81-4234	Essex x HC74-3400	F_5
HC81-4556	HC74-3400 x Sprite	F_5
HC81-4561	HC74-3400 x Sprite	F_5
HC82-6073	Essex x Hobbit	F_5

PRELIMINARY TEST IVB, 1985

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Shattering Score Eldorado 10/4	Shattering Score Eldorado 11/8	Shattering Score Manhattan	BP Eldorado Reaction	BSR Plant N %	BSR Stem N %
Sparks (IV)	WTTSYBL	I	3.0	4.0	1.0	R	100	51.0
Williams 82 (III)	WTTSYBL	I	1.0	2.0	1.0	R	90	52.5
C1662	WTBDYBr	I	2.5	4.0	1.0	S	100	62.3
C1665	WGTDYBf	I	1.0	2.0	1.0	R	80	42.0
C1666	WTTSYBL	I	1.0	2.5	1.0	R	80	42.7
C1683	PTBDYBr	I	1.0	2.0	1.0	-	60	17.6
C1685	PTTSYBL	I	1.0	1.0	1.0	R	80	43.8
K1117	PTBDYBL	I	2.0	2.0	1.0	S	60	37.1
K1118	WTBDYBL	I	1.0	2.0	1.0	R	70	33.0
K1119	PTTSYIb	I	1.0	2.5	1.0	R	60	37.0
HC77-2204	PGTSYBf	D	1.0	3.0	1.0	-	100	56.7
C1668	PTTSYBL	D	2.3	2.0	1.0	-	50	26.1
C1670	PTTSYBL	D	1.0	1.0	1.0	-	30	14.6
C1673	P+WTTDYBL	D	1.5	3.0	1.0	-	70	42.8
HC78-1922	PTTSYBr	D	2.0	2.0	1.0	-	100	62.8
HC79-1264	PTTDYBL	D	2.5	2.5	1.0	-	90	57.0
HC79-3962	PTTSYBL	D	1.0	1.0	1.0	-	70	47.7
HC80-256	PTTSYBL	D	1.8	2.0	1.0	-	80	69.6
HC80-1420	WTTDYBL	D	2.5	3.0	1.0	-	60	38.6
HC80-1626	WTTDYBL+Br	D	1.0	3.0	1.0	-	100	73.2
HC80-2272	PTTSYBL	D	3.3	3.5	1.0	-	70	43.6
HC80-5894	PTTSYBL	D	1.5	1.5	1.0	-	100	81.6
HC81-799	PTTSYBL	D	1.5	1.0	1.0	-	100	46.5
HC81-817	WTTSYBL	D	1.3	1.5	1.0	-	100	68.4
HC81-4234	PTTDYBL	D	1.5	2.0	1.0	-	90	46.1
HC81-4556	WTTSYBL	D	2.0	2.5	1.0	-	90	64.0
HC81-4561	WTTSYBL	D	1.5	2.0	1.0	-	80	37.5
HC82-6073	P+WTBDYBL	D	1.5	2.0	1.0	-	100	55.9

PRELIMINARY TEST IVB, 1985

DISEASE DATA

Strain	PR			PS	PSB	SMV	Germ
	Ames	Lafayette	Vickery				
	Race4	Race1	Tolerance	a	n	a	
	--Reaction--		Score	%	%	Score	%
Sparks (IV)	S	R	2.4	16	22	5E	74
Williams 82 (III)	R	R	2.5	13	0	5M	92
C1662	S	R	2.6	17	6	1	84
C1665	S	S	2.4	20	0	1	99
C1666	R	R	2.3	15	12	5E	82
C1683	H	R	2.5	5	14	4E	80
C1685	R	R	2.4	14	4	5E	92
K1117	S	R	2.6	15	4	1	94
K1118	S	R	2.4	13	28	5E	60
K1119	S	S	2.9	6	2	3E	96
HC77-2204	S	R	2.3	1	0	3E	99
C1668	S	H	3.1	7	0	2E	99
C1670	R	R	2.5	2	0	4E	90
C1673	S	S	3.5	10	4	5E	86
HC78-1922	S	S	2.9	7	2	1	96
HC79-1264	S	S	3.1	9	4	3M	96
HC79-3962	S	S	3.0	7	0	3M	96
HC80-256	S	S	3.5	10	0	3E	90
HC80-1420	S	S	3.3	3	6	1	88
HC80-1626	S	S	2.4	6	2	2E	66
HC80-2272	S	S	3.3	15	0	1	80
HC80-5894	S	S	2.9	5	2	1	90
HC81-799	S	S	2.9	5	4	2M	90
HC81-817	S	S	3.3	1	0	1	96
HC81-4234	S	S	2.6	8	0	4M	92
HC81-4556	S	S	3.0	5	4	5E	84
HC81-4561	S	S	3.5	33	0	5E	98
HC82-6073	S	S	2.8	7	0	2M	96

PRELIMINARY TEST IVB, 1985

Regional Summary

Strain No. of Tests	Yield 7 bu/a	Rank 7 No.	Maturity 7 Date	Lodging 7 Score	Plant Height 7 In	Seed Quality 7 Score	Seed Size 7 g/100	Composition Protein 5 %	Oil 5 %
Sparks (IV)	44.2	17	9-25.6	2.1	39	3.1	17.4	39.7	22.3
Williams 82 (III)	46.3	10	-0.6	1.7	36	2.6	17.5	42.0	21.9
C1662	44.0	22	0.0	1.6	38	3.2	18.4	41.6	22.2
C1665	48.3	3	+2.3	1.5	37	2.6	16.8	40.1	22.4
C1666	44.1	20	-1.6	1.5	37	2.4	17.3	41.7	22.2
C1683	44.2	17	-1.1	1.7	34	2.5	16.2	42.9	21.2
C1685	44.2	17	-0.1	1.5	40	2.7	16.2	43.6	20.9
K1117	46.7	8	-1.0	2.5	37	2.8	17.9	41.2	22.3
K1118	42.5	25	+5.6	1.8	37	3.5	17.5	41.6	21.8
K1119	46.6	9	+3.4	1.6	39	2.0	13.5	40.9	21.6
HC77-2204	51.0	1	+0.9	1.5	26	1.7	13.9	39.4	21.9
C1668	45.3	14	-1.1	1.3	22	2.7	16.3	42.0	22.3
C1670	45.7	12	-0.1	1.2	23	2.0	15.0	42.1	21.3
C1673	44.7	16	+0.6	1.9	29	2.9	14.7	38.9	22.9
HC78-1922	41.0	26	-0.4	1.3	21	2.4	15.2	43.2	21.5
HC79-1264	45.6	13	+1.6	1.3	23	2.4	17.5	42.7	22.0
HC79-3962	46.8	7	+0.3	1.2	24	2.3	14.6	40.2	21.6
HC80-256	45.1	15	+0.4	1.4	21	2.4	15.5	41.1	21 6
HC80-1420	42.6	24	+1.1	1.2	20	2.7	16.8	43.3	21.9
HC80-1626	40.5	28	+3.4	1.4	22	2.6	17.8	43.3	21.0
HC80-2272	42.9	23	-4.0	1.3	21	2.1	16.8	43.6	21.6
HC80-5894	40.9	27	+0.6	1.4	20	2.1	16.5	42.4	22.1
HC81-799	48.1	4	+0.1	2.5	25	2.1	16.1	39.8	22.5
HC81-817	49.0	2	+1.3	1.7	22	2.1	17.3	41.1	22.4
HC81-4234	46.2	11	+0.6	1.1	21	2.1	16.6	43.6	21.3
HC81-4556	47.5	5	+1.3	1.2	23	2.2	19.4	41.7	21.8
HC81-4561	44.1	20	+0.4	1.2	22	2.4	18.8	41.4	22.5
HC82-6073	47.2	6	+2.6	1.6	23	2.1	16.1	43.0	21.8

* 126 Days After Planting

None of the determinate strains in this test had higher seed yields than the check variety Ripley (HC77-2204). Three indeterminate strains were higher yielding than the indeterminate check varieties. As in preliminary test IVA, there was a wide range in ~~lodging~~ shattering scores at Eldorado in 1985.

PRELIMINARY TEST IVB, 1985

YIELD (bu/a)

Strain	Mean 7 Tests	Carbondale IL	Eldorado IL	Sullivan IN
Sparks (IV)	44.2	45.5	28.8	47.0
Williams 82 (III)	46.3	44.5	46.5	45.9
C1662	44.0	39.5	29.7	47.0
C1665	48.3	52.5	46.2	50.0
C1666	44.1	45.0	39.7	41.2
C1683	44.2	40.0	38.2	46.2
C1685	44.2	43.5	42.3	42.0
K1117	46.7	40.0	40.4	45.0
K1118	42.5	45.5	43.1	41.6
K1119	46.6	50.5	37.8	43.0
HC77-2204	51.0	56.0	31.9	52.4
C1668	45.3	49.0	37.1	48.0
C1670	45.7	48.5	26.0	52.1
C1673	44.7	50.0	25.3	49.1
HC78-1922	41.0	46.0	22.0	43.3
HC79-1264	45.6	46.0	32.8	51.9
HC79-3962	46.8	53.5	29.1	50.7
HC80-256	45.1	48.5	21.2	49.2
HC80-1420	42.6	48.0	26.1	35.5
HC80-1626	40.5	39.5	20.1	45.6
HC80-2272	42.9	43.5	20.2	44.8
HC80-5894	40.9	43.5	23.4	44.4
HC81-799	48.1	48.0	43.4	52.7
HC81-817	49.0	61.5	33.1	54.3
HC81-4234	46.2	43.5	25.1	46.7
HC81-4556	47.5	51.0	31.9	49.0
HC81-4561	44.1	49.0	28.8	47.8
HC82-6073	47.2	53.0	38.6	55.6
C.V. (%)		9.0	16.2	10.4
L.S.D. (5%)		8.6	10.8	8.1
Row Sp. (In.)		30	30	15
Rows/Plot		4	4	5
Reps		2	2	2

* NOT INCLUDED IN MEAN

PRELIMINARY TEST IVB, 1985

YIELD (bu/a)

Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	* S. Charleston OH
41.0	53.6	48.8	44.6	57.8
41.4	50.6	47.3	48.2	62.8
44.3	52.8	48.2	46.7	54.3
42.5	50.2	48.7	47.9	57.9
39.1	51.3	46.4	45.9	51.7
44.6	48.2	48.5	43.9	56.8
43.2	46.7	46.7	45.3	52.6
46.4	54.0	52.4	48.4	50.5
39.7	40.7	46.6	40.0	62.5
46.1	48.4	46.1	54.2	62.8
48.5	59.1	47.9	61.5	56.5
39.9	54.1	44.1	44.8	50.8
48.0	49.1	45.4	50.8	53.8
42.4	52.6	47.8	45.4	50.8
36.6	53.2	42.6	43.3	50.9
33.9	52.9	47.2	54.2	47.6
38.0	54.8	48.7	52.8	56.3
43.6	57.7	48.0	47.7	44.9
38.2	56.4	42.8	51.4	57.9
19.6	55.8	47.8	55.1	40.6
44.5	56.1	46.5	44.4	44.4
31.2	59.0	43.2	41.7	49.0
52.0	48.2	44.2	48.4	58.4
39.9	54.9	47.2	51.9	58.0
42.0	61.1	49.2	55.6	49.7
45.5	55.7	48.2	50.9	47.3
39.0	52.1	49.3	42.9	47.7
35.9	53.7	46.4	47.0	59.0
8.6	7.1	7.2	-	-
7.2	4.8	6.9	-	-
30	30	30	30	30
4	4	4	4	4
2	2	2	2	2

PRELIMINARY TEST IVB, 1985

YIELD RANK

Strain	Yield Rank	Carbondale IL	Eldorado IL	Sullivan IN
Sparks (IV)	17	17	18	14
Williams 82 (III)	10	20	1	18
C1662	22	27	16	14
C1665	3	5	2	8
C1666	20	19	7	27
C1683	17	25	9	17
C1685	17	21	5	25
K1117	8	25	6	20
K1118	25	17	4	26
K1119	9	7	10	24
HC77-2204	1	2	14	4
C1668	14	9	11	12
C1670	12	11	21	5
C1673	16	8	22	10
HC78-1922	26	15	25	23
HC79-1264	13	15	13	6
HC79-3962	7	3	17	7
HC80-256	15	11	26	9
HC80-1420	24	13	20	28
HC80-1626	28	27	28	19
HC80-2272	23	21	27	21
HC80-5894	27	21	24	22
HC81-799	4	13	3	3
HC81-817	2	1	12	2
HC81-4234	11	21	23	16
HC81-4556	5	6	14	11
HC81-4561	20	9	18	13
HC82-6073	6	4	8	1

* NOT INCLUDED IN MEAN

PRELIMINARY TEST IVB, 1985

YIELD RANK

Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	* S. Charleston OH
16	14	4	22	9
15	21	14	13	1
9	17	8	17	13
12	22	6	14	7
20	20	20	18	16
7	25	7	24	10
11	27	17	20	15
4	12	1	11	20
19	28	18	28	3
5	24	22	4	1
2	2	11	1	11
17	11	25	21	18
3	23	23	10	14
13	18	13	19	18
24	15	28	25	17
26	16	15	4	24
23	10	5	6	12
10	4	10	15	26
22	5	27	8	7
28	7	12	3	28
8	6	19	23	27
27	3	26	27	22
1	25	24	11	5
17	9	16	7	6
14	1	3	2	21
6	8	9	9	25
21	19	2	26	23
25	13	21	16	4

PRELIMINARY TEST IVB, 1985

MATURITY (Date)

Strain	Mean 7 Tests	Carbondale IL	Eldorado IL	Sullivan IN
Sparks (IV)	9-25.6	10-3	9-14	9-28
Williams 82 (III)	-0.6	-2	+3	0
C1662	0.0	0	+3	+2
C1665	+2.3	+3	+9	+2
C1666	-1.6	0	+3	0
C1683	-1.1	+3	+4	+2
C1685	-0.1	0	4	-1
K1117	-1.0	-5	0	+3
K1118	+5.6	+5	+8	+4
K1119	+3.4	+3	+6	+2
HC77-2204	+0.9	-1	+2	+2
C1668	-1.1	-1	+2	+2
C1670	-0.1	-3	+1	+1
C1673	+0.6	+3	-4	0
HC78-1922	-0.4	+6	-2	0
HC79-1264	+1.6	+6	+2	+1
HC79-3962	+0.3	+5	+2	-2
HC80-256	+0.4	+5	0	+1
HC80-1420	+1.1	+5	+1	+3
HC80-1626	+3.4	+7	+1	+3
HC80-2272	-4.0	+3	-5	0
HC80-5894	+0.6	+2	+2	+1
HC81-799	+0.1	+6	0	+1
HC81-817	+1.3	+6	+2	+1
HC81-4234	+0.6	+6	-1	+2
HC81-4556	+1.3	+4	+2	+1
HC81-4561	+0.4	+3	+1	0
HC82-6073	+2.6	+6	+5	+2
Date Planted	5-22	5-31	5-8	5-28
Days to Mature	126	125	129	123

* NOT INCLUDED IN MEAN

PRELIMINARY TEST IVB, 1985

MATURITY (Date)

Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	* S. Charleston OH
10-2	9-30	9-25	9-17	9-30
-1	-6	0	+2	-1
-1	-5	-1	+2	0
+1	-4	+2	+3	+3
-6	-2	-3	0	-3
-6	-7	-2	-2	-2
-4	+1	0	-1	+2
-1	-3	-3	+2	+1
+7	+5	+5	+5	+6
+5	0	+3	+5	+7
0	0	-1	+4	+4
-5	-7	-1	+2	0
+1	-2	-1	+2	+2
-1	0	+3	+3	-1
0	-6	-1	0	+1
+4	-2	-1	+1	-2
+1	-5	+1	0	+1
+1	-2	-1	-1	0
0	-7	+2	+4	+1
+10	-3	+3	+3	-2
-5	-7	-5	-9	-2
+5	-3	-1	-2	-3
0	-3	-3	0	-3
+4	-4	0	0	-1
+1	-6	0	+2	+3
+5	-5	+1	+1	0
+1	-6	+3	+1	+1
+2	-3	+3	+3	+5
5-17	5-31	6-3	5-7	4-30
138	122	114	133	153

PRELIMINARY TEST IVB, 1985

LODGING (Score)

Strain	Mean 7 Tests	Carbondale IL	Eldorado IL	Sullivan IN
Sparks (IV)	2.1	1.5	2.5	1.5
Williams 82 (III)	1.7	1.0	2.2	1.3
C1662	1.6	1.0	2.0	1.0
C1665	1.5	1.0	1.3	1.0
C1666	1.5	1.0	1.9	1.0
C1683	1.7	1.5	2.5	1.0
C1685	1.5	1.0	1.4	1.0
K1117	2.5	2.5	2.9	1.3
K1118	1.8	1.0	1.8	1.0
K1119	1.6	1.0	1.7	1.0
HC77-2204	1.5	1.0	1.2	1.5
C1668	1.3	1.0	1.1	1.0
C1670	1.2	1.0	1.1	1.0
C1673	1.9	2.5	1.6	1.5
HC78-1922	1.3	1.0	1.2	1.0
HC79-1264	1.3	1.0	1.3	1.0
HC79-3962	1.2	1.0	1.0	1.0
HC80-256	1.4	1.0	1.3	1.0
HC80-1420	1.2	1.0	1.0	1.0
HC80-1626	1.4	1.0	1.1	1.3
HC80-2272	1.3	1.0	1.6	1.0
HC80-5894	1.4	1.0	1.2	1.3
HC81-799	2.5	3.5	2.2	1.3
HC81-817	1.7	1.5	1.6	1.0
HC81-4234	1.1	1.0	1.0	1.0
HC81-4556	1.2	1.0	1.1	1.0
HC81-4561	1.2	1.0	1.2	1.0
HC82-6073	1.6	1.0	1.4	1.0

* NOT INCLUDED IN MEAN

PRELIMINARY TEST IVB, 1985

LODGING (Score)

Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	* S. Charleston OH
1.8	2.8	3.2	1.2	2.5
1.3	3.0	2.0	1.2	1.8
1.3	2.5	2.5	1.0	1.5
1.3	2.8	2.0	1.0	1.8
1.0	2.3	2.2	1.2	1.5
1.0	2.8	1.8	1.0	2.2
1.0	3.0	2.2	1.0	2.2
1.5	4.0	4.0	1.2	2.8
2.0	2.8	2.5	1.2	1.8
1.5	2.5	2.5	1.2	2.0
1.0	2.0	2.0	1.5	1.5
1.0	2.0	1.8	1.0	1.0
1.0	1.8	1.5	1.0	1.0
1.0	2.5	3.0	1.0	2.0
1.0	1.5	2.0	1.2	1.0
1.0	2.3	1.8	1.0	1.0
1.0	1.5	2.2	1.0	1.0
1.0	2.0	2.8	1.0	1.0
1.0	1.8	1.5	1.0	1.0
1.0	1.5	2.8	1.2	1.0
1.0	1.5	2.0	1.0	1.0
1.0	2.3	2.2	1.0	1.0
1.0	4.5	3.0	2.2	1.2
1.0	3.5	2.2	1.0	1.0
1.0	1.5	1.5	1.0	1.0
1.0	1.8	1.5	1.0	1.0
1.0	1.5	1.5	1.0	1.0
1.0	3.5	2.0	1.2	1.0

PRELIMINARY TEST IVB, 1985

PLANT HEIGHT (Inches)

Strain	Mean 7 Tests	Carbondale IL	Eldorado IL	Sullivan IN
Sparks (IV)	39	42	28	37
Williams 82 (III)	36	39	37	32
C1662	38	40	33	34
C1665	37	40	37	34
C1666	37	38	33	31
C1683	34	36	31	32
C1685	40	41	36	34
K1117	37	37	32	31
K1118	37	39	30	32
K1119	39	39	32	33
HC77-2204	26	26	16	25
C1668	22	23	16	22
C1670	23	24	16	21
C1673	29	33	16	28
HC78-1922	21	22	15	19
HC79-1264	23	23	20	23
HC79-3962	24	27	15	23
HC80-256	21	25	13	19
HC80-1420	20	20	15	17
HC80-1626	22	27	15	22
HC80-2272	21	20	15	20
HC80-5894	20	22	15	22
HC81-799	25	30	21	24
HC81-817	22	27	17	22
HC81-4234	21	21	15	21
HC81-4556	23	27	17	23
HC81-4561	22	24	16	23
HC82-6073	23	25	17	23

* NOT INCLUDED IN MEAN

PRELIMINARY TEST IVB, 1985

PLANT HEIGHT (Inches)

Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	* S. Charleston OH
49	45	36	34	41
34	40	32	36	37
46	44	34	36	38
45	40	33	33	37
41	45	31	38	35
39	38	32	33	34
49	45	35	38	43
47	41	31	37	38
44	45	34	35	40
49	41	36	41	40
26	30	26	30	31
17	30	20	23	21
23	29	22	23	20
30	32	31	31	31
18	26	22	24	23
17	29	23	24	22
21	26	24	29	26
17	26	24	25	19
16	28	18	26	22
15	27	22	26	22
21	26	22	25	21
15	26	22	19	21
24	30	24	24	25
18	25	22	26	22
18	28	21	24	22
19	28	23	25	24
20	26	24	24	24
20	25	23	25	26

PRELIMINARY TEST IVB, 1985

SEED QUALITY (Score)

Strain	Mean 7 Tests	Carbondale IL	Eldorado IL	Sullivan IN
Sparks (IV)	3.1	3.0	4.5	3.0
Williams 82 (III)	2.6	3.0	4.3	2.5
C1662	3.2	3.0	4.8	3.0
C1665	2.6	3.0	4.0	2.0
C1666	2.4	3.0	4.0	2.0
C1683	2.5	3.0	4.5	2.5
C1685	2.7	3.0	4.5	2.0
K1117	2.8	4.0	4.8	2.0
K1118	3.5	3.0	3.8	3.0
K1119	2.0	1.0	4.0	1.5
HC77-2204	1.7	1.0	3.5	1.5
C1668	2.7	3.0	4.8	3.0
C1670	2.0	1.0	4.5	1.5
C1673	2.9	2.0	4.8	2.5
HC78-1922	2.4	2.0	4.8	2.0
HC79-1264	2.4	2.0	4.5	2.0
HC79-3962	2.3	2.0	4.3	2.5
HC80-256	2.4	3.0	4.8	2.0
HC80-1420	2.7	3.0	4.8	2.0
HC80-1626	2.6	3.0	5.0	2.5
HC80-2272	2.1	3.0	4.5	1.5
HC80-5894	2.1	1.0	4.3	2.0
HC81-799	2.1	3.0	4.0	2.0
HC81-817	2.1	2.0	4.3	1.5
HC81-4234	2.1	3.0	4.0	1.5
HC81-4556	2.2	1.0	4.5	1.5
HC81-4561	2.4	3.0	4.8	2.0
HC82-6073	2.1	2.0	3.3	1.5

* NOT INCLUDED IN MEAN

PRELIMINARY TEST IVB, 1985

SEED QUALITY (Score)

Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	* S. Charleston OH
2.0	2.0	3.5	4.0	1.5
2.0	2.0	2.2	2.0	1.5
2.0	1.0	4.0	4.5	2.0
2.0	1.0	3.0	3.0	1.5
2.0	1.0	2.0	2.5	1.0
1.5	2.0	2.2	2.0	1.5
2.0	2.0	2.2	3.0	1.5
2.5	2.0	2.0	2.0	1.5
3.0	3.0	4.0	4.5	1.5
2.0	1.0	2.2	2.5	1.0
1.5	1.0	1.8	1.5	1.0
1.5	1.0	2.5	3.0	1.0
1.5	1.0	2.2	2.5	1.0
1.5	2.0	3.2	4.0	1.5
2.0	1.0	2.0	3.0	1.0
2.0	2.0	2.5	2.0	1.5
2.0	2.0	1.8	1.5	1.0
1.5	1.0	2.0	2.5	1.0
2.0	2.0	2.8	2.5	1.0
2.0	2.0	2.2	1.5	1.0
1.5	1.0	2.0	1.0	1.5
2.0	1.0	2.0	2.5	1.0
1.5	1.0	2.0	1.5	1.5
2.0	1.0	2.5	1.5	1.5
1.5	1.0	1.8	2.0	1.5
2.0	1.0	2.5	3.0	1.5
1.5	1.0	2.2	2.5	1.0
2.0	2.0	2.0	2.0	1.0

PRELIMINARY TEST IVB, 1985

SEED SIZE (g/100)

Strain	Mean 7 Tests	Carbondale IL	Eldorado IL	Sullivan IN
Sparks (IV)	17.4	16.6	12.3	20.8
Williams 82 (III)	17.5	15.8	13.9	18.7
C1662	18.4	16.4	14.7	20.6
C1665	16.8	16.2	14.5	18.9
C1666	17.3	17.1	13.9	18.9
C1683	16.2	14.7	12.9	19.7
C1685	16.2	16.3	12.1	19.2
K1117	17.9	17.0	16.3	19.0
K1118	17.5	16.6	13.5	19.7
K1119	13.5	13.9	10.7	15.1
HC77-2204	13.9	14.5	11.3	15.3
C1668	16.3	15.4	14.3	19.1
C1670	15.0	14.9	12.0	16.8
C1673	14.7	13.6	10.8	17.2
HC78-1922	15.2	14.9	12.2	18.7
HC79-1264	17.5	17.0	15.0	20.4
HC79-3962	14.6	14.6	11.0	16.9
HC80-256	15.5	15.2	11.8	18.6
HC80-1420	16.8	17.7	14.2	19.7
HC80-1626	17.8	18.0	14.4	20.0
HC80-2272	16.8	17.4	13.5	21.3
HC80-5894	16.5	16.6	13.4	18.6
HC81-799	16.1	16.3	13.7	19.4
HC81-817	17.3	17.9	13.8	21.1
HC81-4234	16.6	16.2	12.9	19.4
HC81-4556	19.4	17.9	15.8	22.6
HC81-456	18.8	17.9	15.0	22.1
HC82-6073	16.1	16.3	13.2	19.1

* NOT INCLUDED IN MEAN

PRELIMINARY TEST IVB, 1985

SEED SIZE (g/100)

Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	* S. Charleston OH
16.7	17.5	19.8	18.2	20.1
18.8	18.0	19.6	18.0	18.9
20.9	17.3	20.4	18.3	21.7
17.1	16.0	17.5	17.4	18.7
16.6	17.6	18.9	17.9	18.3
14.5	16.6	18.4	16.4	20.5
14.6	16.6	17.2	17.3	17.0
18.3	17.9	19.0	17.9	20.2
18.6	16.2	20.2	17.9	18.7
14.2	11.8	14.0	15.0	15.1
13.4	12.9	15.2	14.9	14.7
17.2	15.5	16.2	16.7	17.8
17.3	12.9	14.9	16.1	17.6
14.4	14.1	16.6	15.8	14.3
16.5	14.9	14.8	14.2	16.3
21.0	16.0	15.5	17.5	17.6
16.0	14.4	14.6	14.9	15.3
15.3	17.2	15.0	15.7	17.2
16.7	16.1	17.0	16.2	18.9
18.9	18.1	18.4	16.5	16.6
17.3	16.9	16.4	15.0	16.4
17.7	17.3	16.2	15.9	17.3
15.4	16.3	15.8	16.0	17.8
17.8	15.6	17.5	17.2	19.7
17.6	16.0	17.1	17.2	18.1
21.0	18.5	20.4	19.7	17.6
20.4	17.4	20.0	18.8	19.4
17.1	14.9	15.8	16.4	16.9

PRELIMINARY TEST IVB, 1985

PROTEIN (%)

Strain	Mean 5 Tests	Eldorado IL	Sullivan IN	Manhattan KS	Queenstown MD	Ripley OH
Sparks (IV)	39.7	39.9	40.9	38.1	40.1	39.6
Williams 82 (III)	42.0	41.3	41.8	41.8	42.7	42.2
C1662	41.6	41.1	43.3	41.2	41.5	41.1
C1665	40.1	40.8	41.7	38.8	39.7	39.5
C1666	41.7	41.7	42.8	41.4	41.6	40.8
C1683	42.9	43.4	44.7	42.1	43.2	40.9
C1685	43.6	43.4	45.0	43.5	42.9	43.0
K1117	41.2	42.3	42.6	40.3	41.1	39.7
K1118	41.6	41.1	43.3	40.2	41.5	42.0
K1119	40.9	41.7	41.7	38.7	41.3	40.9
HC77-2204	39.4	39.0	40.4	38.2	40.9	38.4
C1668	42.0	41.7	44.3	41.9	42.4	39.9
C1670	42.1	42.2	42.8	40.2	43.2	42.1
C1673	38.9	39.3	40.7	37.7	38.7	38.2
HC78-1922	43.2	43.1	43.2	43.7	42.8	43.1
HC79-1264	42.7	43.6	44.5	42.7	41.1	41.8
HC79-3962	40.2	39.4	41.3	40.4	40.1	39.7
HC80-256	41.1	41.2	41.4	40.8	41.0	41.0
HC80-1420	43.3	44.1	44.9	42.1	43.0	42.5
HC80-1626	43.3	43.9	43.9	43.6	43.3	41.8
HC80-2272	43.6	44.6	45.5	42.8	42.8	42.1
HC80-5894	42.4	43.6	42.7	41.8	42.3	41.5
HC81-799	39.8	39.3	41.0	40.2	39.4	39.1
HC81-817	41.1	41.0	41.3	40.9	41.5	40.7
HC81-4234	43.6	43.4	44.8	43.1	43.3	43.3
HC81-4556	41.7	41.4	43.1	40.8	41.7	41.6
HC81-4561	41.4	40.2	42.8	40.7	40.4	42.9
HC82-6073	43.0	43.2	43.8	42.2	42.1	43.5

PRELIMINARY TEST IVB, 1985

OIL (%)

Mean 5 Tests	Eldorado IL	Sullivan IN	Manhattan KS	Queenstown MD	Ripley OH
22.3	22.4	21.1	23.0	23.3	21.7
21.9	21.8	21.6	22.9	22.0	21.4
22.2	22.8	20.8	22.2	23.3	22.1
22.4	22.0	21.5	23.2	23.5	21.6
22.2	21.7	20.8	22.8	23.4	22.4
21.2	20.4	19.5	21.1	23.1	22.1
20.9	20.9	19.8	20.7	22.1	21.0
22.3	22.1	20.9	22.8	23.4	22.5
21.8	21.9	21.1	23.4	22.2	20.5
21.6	21.1	20.8	23.0	21.9	21.0
21.9	21.0	21.6	22.9	22.4	21.8
22.3	23.6	20.5	22.1	23.3	22.1
21.3	20.8	21.1	22.6	21.3	20.8
22.9	22.6	21.6	23.8	23.6	22.9
21.5	22.3	21.3	21.8	22.4	19.9
22.0	22.0	20.6	22.2	23.4	21.7
21.6	21.2	20.8	20.9	23.1	21.9
21.6	21.5	20.7	21.9	22.6	21.3
21.9	22.8	20.3	22.7	22.1	21.4
21.0	22.0	19.9	20.9	21.6	20.8
21.6	22.0	20.2	21.9	22.7	21.3
22.1	22.3	21.0	22.6	23.0	21.8
22.5	22.5	21.2	22.1	23.9	23.0
22.4	22.6	21.8	22.7	23.0	22.0
21.3	22.1	19.5	21.4	21.8	21.8
21.8	23.1	20.3	21.6	22.0	21.9
22.5	24.0	21.1	23.2	23.1	20.9
21.8	21.8	21.3	21.9	22.7	21.3