

1975

The Uniform Soybean Tests: Northern States 1975

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THE UNIFORM SOYBEAN TESTS

NORTHERN STATES

1975

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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 farther 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.

Unreleased strains in this report are not available for general distribution. For further information on them contact the originating agencies listed on Page 6.

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STRAIN DESIGNATION

Experimental (i.e., unreleased) strains are identified by a number with a code letter prefix. The code letters have been agreed upon in meetings of experiment station agronomists cooperating with the U.S. Regional Soybean Laboratory. They indicate the location of the originating agencies as follows:

A	Iowa A.E.S.
Ar	Arizona A.E.S.
Au	Alabama A.E.S.
B	California
C	Purdue (Indiana) A.E.S.
CM	Canada Dept. of Agriculture, Morden, Manitoba
D	Mississippi A.E.S.
E	Michigan A.E.S.
F	Florida A.E.S.
FC	Forage and Range Research Branch, U.S.D.A.
Ga	Georgia A.E.S.
H	Ohio A.R.D.C.
K	Kansas A.E.S.
L	Illinois A.E.S.
La	Louisiana A.E.S.
M	Minnesota A.E.S.
Md	Maryland A.E.S.
Me	Maine A.E.S.
N	North Carolina A.E.S.
ND	North Dakota A.E.S.
O	Central Experiment Farm, Ottawa, Ontario
O	Research Station, Harrow, Ontario
OAC	University of Guelph, Guelph, Ontario
Ok	Oklahoma A.E.S.
PI	Plant Introduction, Germplasm Resources Laboratory, U.S.D.A., Beltsville, Md.
R	Arkansas A.E.S.
S	Missouri A.E.S.
SC	South Carolina A.E.S.
SD	South Dakota A.E.S.
SL	Two or more states cooperatively
Ts	Texas A.E.S.
T	Soybean Genetic Type Collection, U.S.R.L.
U	Nebraska A.E.S.
UD	Delaware A.E.S.
UM	University of Manitoba, Winnipeg, Manitoba
UT	Tennessee A.E.S.
V	Virginia A.E.S.
W	Wisconsin A.E.S.

Uniform Tests are usually planted in four-row plots with three replications or three-row plots with four replications and the center one or two rows are harvested. Preliminary Tests are usually planted in three-row plots (the center row harvested) with two replications. More rows are desirable where unusually narrow (under 30 inch) row spacing is used. Usually 18 to 20 feet of row are planted and 16 feet harvested, to eliminate end-of-row effects. Seeds are packeted at approximately 180 viable seeds per packet for each row.

Parentage. Parent strains other than named varieties are identified on page 12.

Generation Compositid is the generation after the final single-plant selection.

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 per are (or quintals per hectare) multiply by .6725; 1 kg/are = 1.487 bu/acre.)

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:

<u>Group</u>	<u>Reference</u>	<u>Range</u>	<u>Early Tie</u>	<u>Late Tie</u>
00	Portage	-2 to +6		Clay (0)
0	Evans	-5 to +3	Altona (00)	Hodgson (I)
I	Hodgson	-3 to +5	Evans (0)	Corsoy (II)
II	Corsoy	-3 to +5	Hodgson (I)	Woodworth (III)
III	Woodworth	-4 to +4	Beeson (II)	Cutler 71 (IV)
IV	Cutler 71	-4 to +7	Williams (III)	Essex (V)

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 samples 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: 1234 567, abbreviated as underlined below:

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

Peroxidase Activity: H = High, L = low activity in seed coat.

Fluorescent Light Response: E = early flowering (about 35 days), L = late flowering (about 70 days) under 20 hour cool white fluorescent photoperiod.

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 | 3 10% to 25% shattered | 5 Over 50% shattered |
| 2 1% to 10% shattered | 4 25% to 50% shattered | |

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

Emergence Score is related to Hypocotyl elongation and was measured at Ames, Iowa, on germination at 25°C (a critical temperature for differentiating strains).

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 o (absent). Purple seed stain and seed mottling follow the disease severity class rating:

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

An additional classification to describe the extent of seedcoat mottling as M (mild), E (extensive), or S (severe), is included. Pod and stem blight is rated as percent of infected seed on a four-week 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.

<u>Abbreviation</u>	<u>Disease</u>	<u>Pathogen</u>
BB	Bacterial blight	<u>Pseudomonas glycinea</u>
BBV	Bud blight	Tobacco ringspot virus
BP	Bacterial pustule	<u>Xanthomonas phaseoli</u> var. <u>sojensis</u>
BS	Brown spot	<u>Septoria glycines</u>
BSR	Brown stem rot	<u>Cephalosporium gregatum</u>
CN	Cyst nematode	<u>Heterodera glycines</u>
CR	Charcoal rot	<u>Macrophomina phaseoli</u>
DM	Downy mildew	<u>Peronospora manshurica</u>
FE ₁ , FE ₂	Frogeye race 1, 2	<u>Cercospora sojae</u>
PM	Powdery mildew	<u>Microsphaera diffusa</u>
PR	Phytophthora rot	<u>Phytophthora sojae</u>
PS	Purple stain	<u>Cercospora kikuchii</u>
PSB	Pod & stem blight	<u>Diaporthe phaseolorum</u> var. <u>sojae</u>
Pyd	Pythium root rot	<u>Pythium debaryanum</u>
Pyu	Pythium root rot	<u>Pythium ultimum</u>
RK	Root knot nematode	<u>Meloidogyne</u> spp.
RR	Rhizoctonia root rot	<u>Rhizoctonia solani</u>
SB	Sclerotial blight	<u>Sclerotium rolfsii</u>
SC	Stem canker	<u>Diaporthe phaseolorum</u> var. <u>caulivora</u>
SMV	Soybean mosaic	<u>Soja virus 1</u>
TS	Target spot	<u>Corynespora cassiicola</u>
WF	Wildfire	<u>Pseudomonas tabaci</u>
YMV	Yellow mosaic	<u>Phaseolus virus 2</u>

Ratings for BB, BP, BS, DM, FE₂, and PM were based on leaf symptoms; those for BSR on percent of plants with stem browning, or percent of stem length browned, and those for PR on seedling rotting and/or stunting. Tolerance ratings with PR races 1 and 3 present are: 1=none-trace dead plants; 2=up to 2% dead plants, no stunting or chlorosis; 3=up to 10% dead plants, slight stunting or chlorosis; 4=up to 50% dead plants, moderate stunting and chlorosis; 5=over 50% dead plants, severe stunting and chlorosis.

Location*	Tests Conducted by	Uniform Tests						Preliminary Tests						
		OO	O	I	II	III	IV	O	I	II	III	IV		
N.Y.	Aurora	M. W. Van Natta		x										
Pa.	Landisville	R. H. Cole				x	x	x						
N. J.	Adelphia	J. R. Justin				x	<u>x</u>	x			x			
Del.	Georgetown I	E. L. Wisk					<u>x</u>	<u>x</u>						<u>x</u>
Md.	Clarksville	R. C. Leffel					<u>x</u>	<u>x</u>	<u>x</u>			x		<u>x</u>
	Queenstown	"						x	<u>x</u>					<u>x</u>
	Princess Anne	"							x					
Va.	Orange	G. D. Jones												
Ont.	Ottawa	H. D. Voldeng	<u>x</u>											
	Elora	D. J. Hume	<u>x</u>	<u>x</u>						<u>x</u>				
	Kemptville	R. C. Jenkinson	<u>x</u>											
	Ridgetown	D. A. Littlejohns		x	<u>x</u>	x			x	<u>x</u>				
	Harrow	L. J. Anderson			<u>x</u>	<u>x</u>						<u>x</u>		
Ohio	Hoytville	P. E. Smith			x	<u>x</u>	x			x		<u>x</u>		
	Wooster	M. H. Neihaus			x	x	x							
	Columbus	P. E. Smith			<u>x</u>	<u>x</u>	<u>x</u>	<u>x</u>					x	x
Mich.	E. Lansing	T. J. Johnston		o	o	o				x	x			
	Dundee	"			x	x						x		
Ind.	Bluffton	J. R. Wilcox &				<u>x</u>	x							
	Lafayette	R. J. Martin				<u>x</u>	<u>x</u>	<u>x</u>	x			<u>x</u>	<u>x</u>	
	Greenfield	"					x	<u>x</u>						
	Sullivan	"						<u>x</u>	<u>x</u>					<u>x</u>
	Evansville	"						<u>x</u>	<u>x</u>					
Ky.	Henderson	D. A. Reicosky					<u>x</u>	<u>x</u>						
Wisc.	Arlington	E. T. Gritton	o	o	x	o				o	x	x		
	Ashland	"	x											
	Spooner	"		<u>x</u>	o					<u>x</u>				
	Durand	"		<u>x</u>	x									
Ill.	DeKalb	R. L. Cooper				<u>x</u>	<u>x</u>				<u>x</u>			
	Pontiac	"				<u>x</u>	<u>x</u>							
	Urbana	R. L. Bernard				<u>x</u>	<u>x</u>					<u>x</u>	x	
	Girard	"				<u>x</u>	<u>x</u>						<u>x</u>	
	Brownstown	"					x	x	x					
	Belleville	"						<u>x</u>	<u>x</u>					
	Eldorado	"						<u>x</u>	<u>x</u>					<u>x</u>
	Carbondale	D. R. Browning						<u>x</u>	<u>x</u>					
Minn.	Crookston	J. W. Lambert	<u>x</u>											
	Morris	"	<u>x</u>	<u>x</u>						<u>x</u>				
	Rosemount	"	<u>x</u>	<u>x</u>						<u>x</u>				
	Lamberton	"			x	<u>x</u>					x			
	Waseca	"			<u>x</u>	<u>x</u>					<u>x</u>			
Iowa	Greene	W. R. Fehr			<u>x</u>	<u>x</u>					<u>x</u>			
	Kanawha	"			<u>x</u>						<u>x</u>			
	Ames	"				<u>x</u>						<u>x</u>		
	Sloan	"				<u>x</u>						<u>x</u>		
	Stuart	"						x	x				x	x
	Ottumwa	"						<u>x</u>	<u>x</u>				<u>x</u>	<u>x</u>

Location*	Tests Conducted by	Uniform Tests						Preliminary Tests					
		OO	O	I	II	III	IV	O	I	II	III	IV	
Mo.	Edina	V. D. Ludders				x	x	x					
	Columbus	"				o	o	o				o	o
	Appleton	"					x	x					
	Portageville**	J. G. Shannon							X				x
	Portage la Prairie	J. E. Giesbrecht	x										
	Morden	"	<u>x</u>										
	Brandon	R. I. Hamilton	<u>x</u>										
N. D.	Fargo	D. A. Whited	<u>x</u>										
	Oakes	"	<u>x</u>		o								
S. D.	Reville	A. O. Lunden		<u>x</u>	x								
	Brookings I	"		<u>x</u>		x				x			
	Centerville	"				<u>x</u>					x		
	Elk Point I	"						<u>x</u>				x	
Neb.	Mead I	J. H. Williams			<u>x</u>	<u>x</u>	<u>x</u>		<u>x</u>		x	x	
	Concord	"				<u>x</u>							
	Clay Center	"					o						
Kan.	Manhattan I	C. D. Nickell						<u>x</u>	<u>x</u>			<u>x</u>	<u>x</u>
	Ottawa	"						o	o				
	Powhattan	"						<u>x</u>	<u>x</u>				
	Columbus	"							<u>x</u>				
Tex.	Lubbock I	R. D. Brigham											x
No. Locations with agronomic data (x, <u>x</u>)			11	9	18	26	28	27	8	10	11	10	9
No. with seed composition data (<u>x</u>)			7	6	8	11	14	11	5	4	4	4	6

1975 Disease and Shattering Tests

				U.T.	P.T.
Ont.	Harrow	Peroxidase			
		Fluorescent Light	R. I. Buzzell	OO-IV	---
Ind.	Lafayette	BS, FE ₂ , BSR, PR	F. A. Laviolette	OO-IV	O-IV
	Sullivan	DM	& K. A. Athow	OO-IV	O-IV
	Lafayette	PSB, PS, SMV	T. S. Abney & T. L. Ribhards	OO-IV	---
Ohio	Vickery	PR	A. F. Schmitthenner	I-IV	I-IV
Ill.	Urbana	BB, BP	D. W. Chamberlain	I-IV	I-IV
Minn.	Crookston	Chlorosis	J. W. Lambert	OO-IV	---
	Lamberton	"	"	OO-IV	---
Iowa	Ames	BSR, PR	H. Tachibana & L. Card	OO-IV	O-IV
		Chlorosis	W. R. Fehr & J. Miller	OO-IV	O-IV
		Hypocotyl		OO-IV	---
Kansas	Manhattan	Shattering	C. D. Nickell	OO-IV	O-IV
Texas	Lubbock	Shattering	R. D. Brigham	III-IV	---

* I = irrigated

** A = Tiptonville Silt Loan
B = Portageville Clay

IDENTIFICATION OF PARENT STRAINS

Strain	Parentage or Source	Uniform Testing
A-100	Unknown	62-67 I, 62 II
Clark - <u>I</u> <u>r</u> (L11)	<u>I</u> (Clark ⁶ x T201) x <u>r</u> (Clark ⁶ x T145)	65 IV
Clark - <u>I</u> <u>r</u> <u>Rps</u> <u>rxp</u> (L12A)	Clark 63 x L11 (L12 reselected for yield)	65-66 IV
Kent- <u>Rps</u> <u>rxp</u> (SL5)	Kent ⁷ x L49-4196 x Kent ⁸ x Mukden BP & PR resistant	65 IV
Wayne- <u>I</u> <u>r</u> <u>Rpm</u> <u>Rps</u> (SL12)	Wayne ⁶ <u>I</u> <u>r</u> <u>Rps</u> x Wayne x Kanrich	71 III
Wayne- <u>Rps</u> (L15)	Wayne ⁶ x Clark 63	67-68 III
II-54-139	Renville ² x Capital	---
II-54-240	(Lincoln ² x Richland) x Korean	---
A59-850	A50-6838 (Ottawa Mandarin x Kanro) x A50-7537 (Richland x Jogun)	---
AP68-111	Harosoy ⁵ x PI84.946-2	---
AP68-315	Clark ⁷ x PI84.946-2	---
AX56P64-1	Progenitor of Amsoy	61-63 II
C1079	Lincoln x Ogden; From same F ₃ plants as Kent	54-56 IV
C1128	Wabash x Hawkeye	54-58 II
C1253	Blackhawk x Harosoy, PR resistant	64 PII
C1266R	Harosoy ⁸ x C1079	62-63 IV
C1423	C1266R ⁸ x C1253	66 PIV
C1426	C1253 x Kent	67-69 II
C1453	C1266R x C1253	68-70 II
C1457	C1266R ⁸ x C1253	68 IV
C1477	Amsoy ⁸ x C1253	68 II
CX407BC ₇ -326	Amsoy ⁸ x C1253	68 II
D49-2491	S100 ₄ x CNS (S1b of Lee)	52-53 VI
D63-6100	Hill ⁴ x PI171.442	---
D64-3077	D49-2491 ⁵ x Hawkeye	66 PIVs
D64-3146	" "	66-67 IVs
D66-12392	D63-6100 x Dyer	67 PIV
IVR Ex212	Corsoy x [Provar x (A59-850 x Magna)]	74 PII
IVR Ex4311	Hark x Wayne	74 PI
IVR Ex4426	Amsoy x Wayne	74 PI
IVR Ex4428	Corsoy x Wayne	74 PIII
IVR Ex4731	Amsoy x Wayne	74 PII
IVR Ex5003	Provar x (AX56P64-1 x PI91.110-1)	74 PI
L2	Harosoy ⁶ 63 x (Harosoy ⁶ x S54-1207)	62-63, 65-66 II
L4	(C1128 ⁶ x 554-1207) x [C1128 ⁶ x Sel. (Monroe x Lincoln)]	62 III
L57-0034	Clark x Adams	60-61 IV
L62-535	Harosoy ⁶ x T145 (Harosoy dt ₁)	---
L62-1251	Clark ⁶ x T117; Dt ₂ -Semideterminate	65 IV
L62-1579	Clark ⁶ -ln x T204 ₂ , narrow leaf	64 PIV
L62-1926	Clark-e ₂ (early) from Clark ⁶ x T245	---
L63-1212	Harosoy ⁶ -ln (narrow leaf) from Harosoy ⁶ x T204	74 II
L63-1397	Harosoy ⁶ x T207; Dt ₂ -Semideterminate	66 II

L65-1324	Wayne ² x Clark-e ₂ (L62-1926)	68 PII
L65-1342	Wayne ² x Clark-e ₂ (L62-1926)	69-70 I
L66-1322-1	(F ₁₀ Hawkeye x Lee) x (F ₁₀ Hawkeye x Lee)	---
L66-1359	Wayne x L57-0034	70-74 IV
L66-2004	Clark ³ x Peking	---
L66L-137	Wayne x L57-0034	70 III
L66L-144	"	70-71 IV
L66L-154	"	69-70 III
L67-533	Clark ⁶ x Higan	70 PIII
L69L-3	Clark-dt ₁ E ₁ t e ₂ x Harosoy-dt ₁	---
M10	Lincoln x Richlånd	49-51 I
M59-120	II-54-240 x II-54-139	60-70 I
M60-92	[Comet x M319 (Lincoln x Hawkeye)]	69-70 0
M61-20	Merit x Comet	74 P0
M61-96	Merit x Harosoy	70-71 0
M62-177	M387 x M406	71 0
M62-263	Grant x M319W	71-72 I
M62-275	Norchief x Harosoy	71 I
M63-17	M402 x M406	71 I
M319	Lincoln x Hawkeye	58-61 I
M372	M10 x PI180.501	61 I
M384	Renville x Capital	63-66 00
M387	" x "	63 00, 64 0
M402	" x "	63-64 II
M406	Harosoy x Norchief	64-65 0
M433	Acme x Chippewa	64 0, 65 00
Md62-3223	Selection from Bulk population	70 IV
Md66-1258	2nd cycle intermates	74 PIII
0-52-903	Strain 753-1 from Suen A. Holmberg, Norrkoping, Sweden, same as PI194.654 from Pagoda-2 x Fiskeby III	---
OX383	Corsoy x Harosoy 63	70 PII
PI84.946-2	Rogue in PI84.946 introduced from Korea in 1930. Somewhat resistant to BSR	66 PIV
PI91.110-1	From Manchuria, China in 1931	---
PI180.501	Strain No. 18 from Frankfurt, Germany in 1949; from a Manchurian strain x PI54.616	---
R54-168	D49-2573 x N45-1497; Sister sel. of Davis---	---
R62-659	(R54-168 x Hill) x (Lee x Dortchsoy 110)65	PV

Strain	Parentage	Previous Testings*	Line
1. Altona	0-52-903 (Holmberg 753-1) x Flambeau	11	F ₅
2. Norman	Acme x Hardome	10	" ₅
3. Portage	Acme x Comet	15	"
4. CM121	Acme x Blackhawk	--	F ₈
5. CM147	" "	--	" ₈
6. CM148	" "	--	"
7. M65-217	M433 (Acme x Chippewa) x Hark	2	F ₅

* Number of years in this test.

Regional data for the past three years shows that the varieties Altona, Norman, and Portage differ by 1-2 bushel per acre in yield and about 5 days in maturity. Tests over the three years show that M65-217 is similar to Altona in maturity, is higher yielding than Altona by three bushels, but is susceptible to phytophthora root rot.

The three new entries in the test, CM 121, CM 147, and CM 148, though segregating or resistant to phytophthora, show no superiority in other characteristics to the check varieties in the test.

Disease Data

Strain	<u>BS</u>	<u>DM</u>	<u>FE₂</u>	<u>BSR</u>			<u>PSB</u>	<u>PS</u>	<u>SMV</u>	<u>PR</u>	
	Laf. Ind.	Sull. Ind.	Laf. Ind.	Laf. Ind.	Ames Iowa	Laf. Ind.	Laf. Ind.	Laf. Ind.	Laf. Ind.	Ames Iowa	Ames Iowa
	n	n	a	n %	n % stem plants	d %	a	n seed	a	a	
Altona	4	1	3	10	40	55	46	2	3E	R	R
Norman	3	1	4	0	26	40	20	2	4E	S	S
Portage	5		4	20	20	40	27	2	4E	S	S
CM121	3	1	5	20	40	75	36	2	3E	H	H
CM147	4	1	5	40	36	65	38	2	4E	R	H
CM148	2	1	4	50	36	85	50	2	3E	R	H
M65-217	5	1	3	40	21	75	46	1	4M	S	S

Descriptive and Other Data

Strain	Descriptive Code	<u>Chlorosis</u>			Fluor- escent Light	Hypo- cotyl	Perox- idase	<u>Shattering</u> Manhattan Kansas	
		<u>Crkstn.</u> Minn.	<u>Lamb.</u> Minn.	<u>Ames</u> Iowa					
Altona	PTNBr	SYB1	1.5	3.0	4	E	1	H	2
Norman	PGNBr	SY Y	1.0	2.0	3	E	1	H	2
Portage	PGNBr	D+SY Y	1.5	1.5	2	E	1	H	5
CM121	PGNBr	DYG	1.5	2.0	3	E	1	H	5
CM147	PGNBr	DYG	1.0	2.0	3	E	1	H	5
CM148	PGNBr	DYG	1.0	1.5	2	E	1	H	5
M65-217	PGNBr	DY Y	1.5	1.5	3	E	1	H	5

UNIFORM TEST 00, 1975

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Height	Seed Quality	Seed Size	Seed Composition	
								Protein	Oil
<u>1975</u>									
<u>No. of Tests</u>	11	11	9	10	11	10	11	7	7
~ Altona	30.3	2	+3.7	1.8	29	2.4	17.3	39.8	19.2
~ Norman	29.4	5	+1.7	1.5	29	2.1	16.7	39.5	19.9
Portage	28.4	7	9-5.4+	1.2	28	2.3	17.1	39.1	19.6
CM121	29.8	4	+4.3	1.3	28	2.2	18.5	40.1	19.4
CM147	30.1	3	+1.6	1.3	29	1.9	18.6	40.1	19.1
CM148	28.7	6	+2.1	1.3	29	2.5	19.5	39.4	19.7
~ M65-217	32.9	1	+3.1	1.3	30	1.9	14.9	38.5	19.9
† 108 days after planting									
<u>1973-75, 3-YEAR MEAN</u>									
<u>No. of Tests</u>	28	28	25	26	28	27	27	18	18
Altona	33.2	2	+5.4	2.2	28	2.5	18.4	41.1	19.5
Norman	31.8	3	+3.2	2.0	28	2.2	17.1	40.9	19.8
Portage	30.6	4	9-6.1+	1.3	27	2.4	18.0	40.1	19.9
M65-217	36.4	1	+4.8	1.6	29	2.0	15.4	39.8	19.9
† 107 days after planting									

Strain	Mean	Ontario			Wisconsin
		Ottawa	Elora	Kempt-ville	Ashland
	11 Tests	1975 YIELD (bu/a)			
Altona	30.3	34.4	42.1	29.8	24.3
Norman	29.4	36.3	46.0	28.0	25.3
Portage	28.4	34.3	40.3	22.8	23.5
CM121	29.8	38.0	46.6	27.0	24.6
CM147	30.1	37.7	45.4	25.0	24.5
CM148	28.7	35.3	44.6	26.5	23.4
M65-217	32.9	35.0	45.6	32.0	27.1
C. V. (%)		8.2	6.0	8.9	6.0
L.S.D. (5%)		4.4	3.9	3.0	2.2
Row sp. (In.)		27	12	21	24
Rows/Plot		3	4	4	1
Reps.		4	4	4	4
		<u>YIELD RANK</u>			
Altona	2	6	6	2	5
Norman	5	3	2	3	2
Portage	7	7	7	7	6
CM121	4	1	1	4	3
CM147	3	2	4	6	4
CM148	6	4	5	5	7
M65-217	1	5	3	1	1
	28 Tests	<u>1973-75, 3-YEAR MEAN YIELD</u>			
Altona	33.2	42.7	36.0	<u>73.75</u> 30.8	<u>74-75</u> 25.8
Norman	31.8	42.4	35.7	33.5	26.8
Portage	30.6	38.9	35.7	24.3	25.0
M65-217	36.4	46.5	40.3	37.5	31.1
		<u>YIELD RANK</u>			
Altona	2	2	2	<u>73.75</u> 3	<u>74-75</u> 3
Norman	3	3	3	2	2
Portage	4	4	3	4	4
M65-217	1	1	1	1	1

Strain	Minnesota			Manitoba			N. Dakota
	Crooks- ton	Morris	Rose- mount	Portage la Prairie	Morden	Brandon	Fargo
<u>1975 YIELD (bu/a)</u>							
Altona	27.3	27.6	32.9	42.5	24.7	17.3	30.4
Norman	25.1	24.8	29.5	37.9	25.5	20.4	24.9
Portage	21.4	27.5	31.0	35.6	28.7	21.4	26.1
CM121	22.6	23.5	29.9	38.7	26.5	22.7	28.2
CM147	23.1	27.3	30.5	38.2	29.1	21.9	28.6
CM148	24.1	24.3	28.3	35.3	28.3	22.3	23.2
M65-217	31.1	28.7	32.4	46.9	29.7	22.5	31.3
C.V. (%)	11.0	7.9	7.0	9.4	7.1	9.7	6.7
L. S. D. (5%)	4.5	3.5	NS	5.4	2.9	3.6	2.7
Row sp. (In.)	22	30	30	36	30	30	28
Rows/Plot	4	4	4	3	3	4	3
Reps.	3	3	3	4	4	3	4
<u>YIELD RANK</u>							
Altona	2	2	1	2	7	7	2
Norman	3	5	6	5	6	6	6
Portage	7	3	3	6	3	5	5
CM121	6	7	5	3	5	1	4
CM147	5	4	4	4	2	4	3
CM148	4	6	7	7	4	3	7
M65-217	1	1	2	1	1	2	1
<u>1973-75, 3-YEAR MEAN YIELD</u>							
Altona	27.4	32.1	34.4	41.9	32.6	<u>74-75</u> 18.0	<u>73,75</u> 29.1
Norman	25.3	29.9	32.5	38.1	32.4	20.0	25.2
Portage	24.9	29.9	30.9	37.1	31.2	20.0	25.2
M65-217	30.1	35.2	37.6	44.7	33.8	22.4	31.4
<u>YIELD RANK</u>							
Altona	2	2	2	2	2	4	2
Norman	3	3	3	3	3	2	3
Portage	4	3	4	4	4	2	3
M65-217	1	1	1	1	1	1	1

Strain	Mean	Ontario		Wisc.	Minnesota			Port-	Manitoba		N.D.	
		Otta- wa	Kempt- Elora ville	Ash- land	Crook- ston	Mor- ris	Rose- mount	age la Praire	Mor- den	Bran- don	Far- go	
9 Tests		<u>MATURITY (relative date)</u>										
*												
Altona	+3.7	+3	+6	0		+3	+7	+4	+2	+6	+2	--
Norman	+1.7	-1	+2	0		+1	+2	+1	+6	+3	+1	+1
Portage†	9-5.4	9-18	9-5	8/26		9-10	8-15	8-25	9-16	9-10	9-17	9-9
CM121	+4.3	+8	+5	+9		+1	+4	+2	+3	+3	+1	+3
CM147	+1.6	+2	+1	-2		+2	+2	+3	+4	0	0	+2
CM148	+2.1	+7	+1	0		+3	+2	+2	+3	+2	-2	+1
M65-217	+3.1	-2	+2	+2		0	+1	+2	+8	+7	+5	+3
Clay (0)	+10.8	--	+10	--		+6	+16	+11	--	--	--	--
Date planted	5-21	5-30	5-21	5-22	5-22	5-22	5-9	5-15	5-15	5-27	5-25	5-23
†Day to mat.	108	111	107	96		111	98	102	124	106	115	109
10 Tests		<u>LODGING (score)</u>										
Altona	1.8	2.1	1.6	1.0	1.0	1.0	3.7	2.3		3.0	1.0	1.8
Norman	1.5	1.6	1.9	1.0	1.0	1.0	1.7	2.0		2.0	1.0	1.8
Portage	1.2	1.1	1.3	1.0	1.0	1.0	1.0	1.3		2.0	1.0	1.0
CM121	1.3	1.3	1.3	1.0	1.0	1.0	1.7	1.7		2.0	1.0	1.3
CM147	1.3	1.2	1.4	1.0	1.0	1.0	1.3	1.7		2.0	1.0	1.3
CM148	1.3	1.4	1.3	1.0	1.0	1.0	1.0	2.0		2.0	1.0	1.5
M65-217	1.3	1.1	1.3	1.0	1.0	1.0	1.7	1.7		2.0	1.0	1.5
11 Tests		<u>PLANT HEIGHT (inches)</u>										
Altona	29	37	33	16	23	25	25	24	34	19	28	29
Norman	29	38	34	17	22	26	26	22	34	21	28	26
Portage	28	36	31	16	21	27	23	22	32	20	27	25
CM121	28	38	31	15	20	24	27	23	34	20	26	25
CM147	29	37	31	15	24	26	27	22	35	20	26	25
CM148	29	38	30	15	22	27	28	22	33	20	26	25
M65-217	30	36	33	15	20	26	28	25	35	22	32	28

* Not included in the mean.

Strain	Mean	Ontario			Wisconsin
		Ottawa	Elora	Kempt-ville	Ashland
	10 Tests	<u>SEED QUALITY (score)</u>			
Altona	2.4	2.0	1.0	3.0	
Norman	2.1	2.0	1.0	3.0	
Portage	2.3	4.0	1.0	3.0	
CM121	2.2	3.0	1.0	3.0	
CM147	1.9	2.0	1.0	2.0	
CM148	2.5	3.0	2.0	4.0	
M65-217	1.9	1.0	1.5	3.0	
	11 Tests	<u>SEED SIZE (g/100)</u>			
Altona	17.3	20.6	17.6	19.3	19.8
Norman	16.7	21.2	16.4	18.6	20.2
Portage	17.1	22.5	16.5	18.1	19.9
CM121	18.5	24.0	18.9	18.2	20.4
CM147	18.6	22.8	18.1	21.3	20.1
CM148	19.5	24.9	19.4	24.8	20.3
M65-217	14.9	17.8	14.3	15.1	17.9
	7 Tests	<u>PROTEIN (%)</u>			
Altona	39.8	42.1	43.0		
Norman	39.5	43.3	42.0		
Portage	39.1	42.6	40.8		
CM121	40.1	43.5	41.5		
CM147	40.1	42.7	41.7		
CM148	39.4	41.7	41.5		
M65-217	38.5	41.2	40.9		
	7 Tests	<u>OIL (%)</u>			
Altona	19.2	19.3	18.9		
Norman	19.9	18.9	19.5		
Portage	19.6	18.8	19.3		
CM121	19.4	17.8	19.3		
CM147	19.1	18.4	18.6		
CM148	19.7	19.2	18.7		
M65-217	19.9	18.9	19.6		

Strain	Minnesota			Manitoba			N. Dakota
	Crookston	Morris	Rosemount	Portage la Prairie	Morden	Brandon	Fargo
<u>SEED QUALITY (score)</u>							
Altona	2.3	3.7	2.0	2.0	1.5	4.0	3.0
Norman	2.0	3.0	2.3	1.0	1.5	2.0	3.0
Portage	2.3	2.7	2.3	2.0	1.0	2.0	3.0
CM121	2.0	3.0	2.0	1.7	1.6	3.0	2.0
CM147	2.0	3.0	2.0	1.4	1.6	2.0	2.0
CM148	2.3	3.0	2.7	1.5	1.6	2.0	3.0
M65-217	2.0	3.0	2.3	1.0	1.2	2.0	2.0
<u>SEED SIZE (g/100)</u>							
Altona	15.6	12.8	16.3	20.0	18.3	14.7	14.9
Norman	14.5	12.5	16.6	17.5	17.3	14.0	14.4
Portage	15.5	12.9	16.7	18.4	17.9	15.2	14.6
CM121	17.4	13.8	17.9	19.9	20.3	15.9	16.7
CM147	18.2	14.5	18.3	20.1	19.2	15.4	16.5
CM148	18.2	14.3	18.7	20.2	19.9	16.8	17.3
M65-217	13.1	11.1	14.6	16.7	16.9	12.9	13.0
<u>PROTEIN (%)</u>							
Altona	39.7	39.3			41.4	35.8	37.6
Norman	40.1	38.8			39.8	36.1	36.5
Portage	42.4	35.9			39.7	36.0	36.2
CM121	40.8	38.2			40.8	37.9	37.7
CM147	41.3	38.5			40.7	36.9	38.8
CM148	39.5	37.9			39.9	37.2	38.4
M65-217	38.8	36.9			38.8	36.4	36.8
<u>OIL (%)</u>							
Altona	19.6	20.9			17.5	17.9	20.6
Norman	20.3	22.0			18.6	18.3	22.0
Portage	18.3	21.8			18.7	17.8	22.2
CM121	19.7	21.6			18.1	17.5	22.0
CM147	19.0	21.2			17.8	17.6	21.0
CM148	20.0	22.0			18.7	17.9	21.5
M65-217	20.0	21.9			18.8	18.2	22.0

Strain	Parentage	Previous Testing*	Line
1. Clay	Capital x Renville	8	F
2. Evans	Merit x Harosoy	5	"5
3. Swift	II-54-240 (Lincoln ² x Richland) x Korean x II-54-139 (Renville x Capital)	7	"
4. M65-94	M384 (Capital x Renville) x Corsoy	2	"
5. M65-295	Anoka x Magna	1	"
6. M66-18	Clay x Altona	PO	"
7. M66-30	Magna x M61-20 (Merit x Comet)	PO	"
8. M68-2	Wilkin x M59-120 (II-54-240 x II-54-139)	PO	"
9. M68-37	Evans x M59-120	PO	"

* Number of years in this test or name of 1974 test.

The regional 6-year mean shows that Evans is higher yielding and has better seed quality than either Clay or Swift. The 2-year test data does not show any yield advantage of M65-94 or M65-295 over the check varieties. The entry M65-94 has excellent lodging resistance and is 5 days earlier than Evans.

The four new entries this year, M66-18, M66-30, M68-2 and M68-37 show no distinct advantage over the variety Evans for any characteristic evaluated. M66-18 is similar in maturity and about one bushel higher in yield than M65-94.

Disease Data

Strain	<u>BS</u>	<u>DM</u>	<u>FE₂</u>	<u>BSR</u>		<u>PSB</u>	<u>PS</u>	<u>SMV</u>	<u>PR</u>		
	Laf.	Sull.	Laf.	Laf.	Ames	Laf.	Laf.	Laf.	Laf.	Ames	
	Ind.	Ind.	Ind.	Ind.	Iowa	Ind.	Ind.	Ind.	Ind.	Iowa	
	n	n	a	n %	n % stem	n % plants	d %	a	n seed	a	a
Clay	4	1	5	40	50	75	55	4	4E	S	S
Evans	5	3	5	10	34	90	42	2	4E	R	R
Swift	3	3	5	60	58	95	68	4	5E	S	S
M65-94	2	2	5	10	50	95	59	3	4E	S	S
M65-295	5	2	4	40	48	100	65	2	4E	S	S
M68-18	4	2	4	10	36	95	45	2	4E	R	S
M66-30	5	3	5	0	50	95	35	4	4E	S	H
M68-2	4	2	5	20	57	90	41	4	3E	R	R
M68-37	4	2	5	30	62	95	60	4	4E	R	H

Descriptive and Other Data

Strain	Descriptive Code		<u>Chlorosis</u>			Fluor- escent Light	Hypo- cotyl	Perox- idase	<u>Shattering</u> Manhattan Kansas
			<u>Crkstn.</u> Minn.	<u>Lamb.</u> Minn.	<u>Ames</u> Iowa				
Clay	PGNBr	SY Y	1.0	1.5	3	E	1	L+H	3
Evans	WGNBr	DY Y	1.0	1.0	3	E+L	1	H	5
Swift	WTNBr	DY B1	1.0	1.0	2	E	5	H	4
M65-94	WGNBr	DY Y	1.0	2.0	4	E	1	H	2
M65-295	PTNBr	DY Tn	1.0	2.0	3	E	1	H	3
M66-18	PGNBr	SY Br	1.0	1.5	2	E	1	L	2
M66-30	PGNBr	DY Y	1.0	2.5	3	E	1	L	3
M68-2	WGNBr	DY Y	1.0	1.0	2	L	1	L	3
M68-37	WGNBr	DY Bf	1.0	1.5	3	E	1	H	3

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Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Seed Height	Seed Quality	Seed Size	Seed Composition	
								Protein	Oil
<u>1975</u>									
No. of Tests	9	9	8	8	8	7	9	6	6
Clay	33.0	9	-9.5	1.7	27	2.3	16.1	40.2	21.4
Evans	40.9	1	9-22.5†	2.3	36	1.7	15.9	38.9	21.5
Swift	36.5	8	+0.9	2.9	36	2.0	15.3	37.8	20.8
M65-94	36.6	7	-7.4	1.5	28	2.1	16.2	39.1	21.2
M65-295	39.1	4	+0.9	2.4	33	2.3	21.6	37.6	19.5
M66-18	37.8	6	-6.2	1.8	29	1.8	16.7	40.4	20.7
M66-30	39.2	3	+1.9	1.8	32	1.8	20.5	39.7	20.7
M68-2	38.9	5	+0.4	1.8	35	1.8	16.7	39.9	20.1
M68-37	39.3	2	-1.4	2.1	32	2.1	17.8	38.5	21.2
† 125 days after planting									
<u>1974-75, 2-YEAR MEAN</u>									
No. of Tests	17	17	15	16	16	12	15	11	11
Clay	32.4	5	-7.5	1.6	24	1.9	15.8	40.6	21.2
Evans	37.7	1	9-21.1†	2.0	33	1.6	15.4	39.4	21.2
Swift	34.4	4	+1.4	2.4	34	2.0	15.0	38.6	20.2
M65-94	34.5	3	-5.4	1.3	26	2.0	16.0	39.4	21.0
M65-295	35.5	2	+1.7	2.0	30	2.5	20.8	38.0	19.2
† 124 days after planting									
<u>1973-75, 3-YEAR MEAN</u>									
No. of Tests	23	23	20	22	22	18	21	17	17
Clay	34.9	4	-6.9	1.5	25	2.0	15.9	40.4	21.9
Evans	38.9	1	9-18.2†	1.8	33	1.6	15.4	39.6	21.8
Swift	36.4	3	+1.6	2.4	33	2.1	15.1	38.7	20.9
M65-94	36.5	2	-4.9	1.3	26	2.2	16.2	39.5	21.6
† 122 days after planting									
<u>1970-75, 6-YEAR MEAN</u>									
No. of Tests	47	47	41	44	45	39	43	34	34
Clay	35.2	3	-6.2	1.5	26	2.3	16.4	40.7	21.8
Evans	38.2	1	9-19.6†	1.9	34	1.7	15.5	39.6	21.8
Swift	36.2	2	+1.6	2.5	34	2.1	15.4	38.8	21.2
† 122 days after planting									

Strain	Mean	<u>N.Y.</u>	<u>Ontario</u>		<u>Wisconsin</u>		<u>Minnesota</u>		<u>N.D.</u>	<u>S.D.</u>
		Aurora	Elora	Ridgeville	Spooner	Durand	Morris	Rosemount	Fargo	Reville
9 Tests		1975 YIELD (bu/a)								
Clay	33.0	33.5	43.0	49.3	16.0	28.8	29.3	43.1	34.0	20.1
Evans	40.9	48.5	43.8	54.4	25.1	42.0	40.0	48.2	39.8	26.1
Swift	36.5	33.5	38.0	49.9	21.5	40.3	35.4	48.0	37.3	24.6
M65-94	36.6	40.8	45.6	51.9	16.9	30.5	34.8	47.4	37.2	24.7
M65-295	39.1	46.9	40.2	46.6	23.0	41.3	35.7	54.0	35.8	28.6
M66-18	37.8	45.7	43.7	54.5	18.5	32.3	33.8	49.2	36.1	26.1
M66-30	39.2	37.7	43.0	53.0	22.4	43.0	41.3	55.4	31.7	25.0
M68-2	38.9	47.8	41.7	51.1	19.7	37.2	36.9	48.7	38.4	28.2
M68-37	39.3	45.2	42.1	52.8	25.2	40.4	43.6	50.1	36.3	18.0
C.V. %		11.3	8.9	6.2	17.6	10.0	9.8	12.7	6.5	8.6
L.S.D. (5%)		6.9	NS	4.6	5.4	2.9	6.1	NS	3.5	3.4
Row sp. (In.)		30	12	24	38	38	30	30	28	30
Rows/Plot		3	4	4	4	4	4	4	3	2
Reps.		4	4	4	4	4	3	3	4	4
YIELD RANK										
Clay	9	8	4	8	9	9	9	9	8	8
Evans	1	1	2	2	2	2	3	6	1	3
Swift	8	8	9	7	5	5	6	7	3	6
M65-94	7	6	1	5	8	8	7	8	4	5
M65-295	4	3	8	9	3	3	5	2	7	1
M66-18	6	4	3	1	7	7	8	4	6	3
M66-30	3	7	4	3	4	1	2	1	9	7
M68-2	5	2	7	6	6	6	4	5	2	2
M68-37	2	5	6	4	1	4	1	3	5	9
17 Tests		1974-1975, 2-YEAR MEAN YIELD								
Clay	32.4		34.9	47.0	21.8	29.8	33.2	41.4		19.7
Evans	37.7		35.8	52.0	27.6	35.4	38.7	44.5		24.9
Swift	34.4		31.2	49.6	26.1	32.3	35.6	42.6		23.9
M65-94	34.5		36.4	49.0	22.2	29.2	36.4	43.8		23.2
M65-295	35.5		30.4	47.4	26.8	35.5	32.2	44.2		28.0
YIELD RANK										
Clay	5		3	5	5	4	4	5		5
Evans	1		2	1	1	2	1	1		2
Swift	4		4	2	3	3	3	4		3
M65-94	3		1	3	4	5	2	3		4
M65-295	2		5	4	2	1	5	2		1

UNIFORM TEST 0, 1975

Strain	Mean	N. York	Ontario		Wisconsin		Minnesota		N.D.	S.D.	
		Aurora	Elora	Ridge- town	Spooner	Dur- and	Mor- ris	Rose- mount	Fargo	Reville	
	23 Tests	1973-1975 3-YEAR MEAN YIELD						74-75	73.75		
Clay	34.9		38.1	48.0	25.5	29.8	37.6	40.2	31.8	23.5	
Evans	38.6		39.6	51.9	31.3	35.4	42.3	42.2	34.2	26.0	
Swift	36.4		34.0	50.0	31.5	32.3	40.1	41.2	33.6	27.1	
M65-94	36.5		39.3	48.4	25.0	29.2	39.0	41.3	35.1	27.6	

Strain	Mean	YIELD RANK								
		Aurora	Elora	Ridge- town	Spooner	Dur- and	Mor- ris	Rose- mount	Fargo	Reville
Clay	4		3	4	3	3	4	4	4	4
Evans	1		1	1	2	1	1	1	2	3
Swift	3		4	2	1	2	2	2	3	2
M65-94	2		2	3	4	4	3	2	1	1

Strain	8 Tests	Mean	MATURITY (relative date)							
			Aurora	Elora	Ridge- town	Spooner	Dur- and	Mor- ris	Rose- mount	Fargo
Clay	-9.5	0	-13	-10	-12	-18	-12	-9	*	-2
Evans†	9-22.5	9-30	9-28	9-20	9-26	9-27	9-9	9-13		9-27
Swift	+0.9	+2	+3	+4	-6	-4	+5	+2		+1
M65-94	-7.4	+2	-15	-9	-12	-12	-9	-6		+2
M65-295	+0.9	+4	+3	-3	+4	-2	0	+1		0
M66-18	-6.2	-3	-12	-2	+1	-18	-11	-7		+2
M66-30	+1.9	-1	-2	+3	-2	+3	+7	+7		0
M68-2	+0.4	-2	-1	+3	+1	-1	+1	+2		0
M68-37	-1.4	+2	0	-10	-11	+2	+6	+3		-3
Altona (00)			-17				-18	-15		
Hodgson (I)				0		+3	+7	+6		+1
Date plan.	5-20	5-29	5-20	5-20	5-23	5-21	5-9	5-15	5-23	5-27
†Da. to mat.	125	124	131	123	126	129	123	121		123

Strain	8 Tests	Mean	LODGING (score)							
			Aurora	Elora	Ridge- town	Spooner	Dur- and	Mor- ris	Rose- mount	Fargo
Clay	1.7	1.0	1.5	2.6	1.0	1.5	2.0	2.0	2.3	
Evans	2.3	3.0	3.4	3.0	1.0	2.0	2.0	2.0	2.0	
Swift	2.9	3.0	4.5	3.7	1.0	2.5	3.0	3.0	2.8	
M65-94	1.5	1.0	1.0	2.4	1.0	1.5	1.3	2.0	1.5	
M65-295	2.4	1.0	3.8	4.1	1.0	2.5	1.7	2.0	3.0	
M68-18	1.8	2.0	1.3	2.5	1.0	1.5	1.7	2.0	2.0	
M66-30	1.8	1.0	1.5	3.1	1.0	2.0	2.0	2.0	2.0	
M68-2	1.8	2.0	2.0	3.1	1.0	1.5	1.7	2.0	1.5	
M68-37	2.1	2.0	3.1	2.4	1.0	2.5	1.7	2.0	2.0	

Strain	8 Tests	Mean	PLANT HEIGHT (inches)							
			Aurora	Elora	Ridge- town	Spooner	Dur- and	Mor- ris	Rose- mount	Fargo
Clay	27	27	29	25	46	21	24	23		20
Evans	36	34	43	39	57	29	32	34		23
Swift	36	34	42	41	51	32	34	33		22
M65-94	28	24	30	30	46	23	28	26		20
M65-295	33	30	38	33	61	24	27	28		21
M68-18	29	32	30	29	46	21	25	25		22
M66-30	32	25	34	38	58	26	28	29		21
M68-2	35	30	37	39	55	30	32	34		21
M68-37	32	28	37	27	58	27	30	32		19

* Not included in the mean.

Strain	Mean	N. York	Ontario		Wisconsin		Minnesota		N.D.	S.D.
		Aurora	Elora	Ridge- town	Spoo- ner	Dur- and	Mor- ris	Rose- mount	Fargo	Revilla
	7 Tests	SEED QUALITY (score)								
Clay	2.3	2.0	2.0	4.0			2.7	2.3	2.0	1.3
Evans	1.7	2.0	1.0	3.0			2.0	1.7	1.0	1.2
Swift	2.0	2.0	1.5	3.0			2.0	2.0	2.0	1.2
M65-94	2.1	2.0	1.0	4.0			2.0	2.0	2.0	1.4
M65-295	2.3	2.0	1.0	3.0			2.7	2.7	3.0	1.5
M66-18	1.8	1.0	2.0	2.0			2.0	2.0	2.0	1.3
M66-30	1.8	1.0	1.0	2.0			2.7	2.3	2.0	1.6
M68-2	1.8	2.0	1.5	2.0			2.0	2.0	2.0	1.4
M68-37	2.1	3.0	2.0	2.0			2.3	2.0	2.0	1.5
	9 Tests	SEED SIZE (g/100)								
Clay	16.1	18.7	15.0	18.2	18.4	16.4	13.6	15.9	14.2	14.7
Evans	15.9	18.1	15.0	17.6	19.0	15.8	13.6	16.0	13.0	15.2
Swift	15.3	17.8	15.8	17.7	17.5	14.4	13.0	14.6	12.6	14.0
M65-94	16.2	22.2	13.9	17.7	17.5	15.8	13.7	15.9	14.2	15.2
M65-295	21.6	25.0	23.2	22.8	23.5	21.2	19.2	21.5	16.6	21.1
M66-18	16.7	18.6	15.0	21.4	19.8	15.8	13.6	15.9	14.3	16.0
M66-30	20.5	20.0	21.2	18.7	25.3	20.6	18.3	21.5	16.2	23.1
M68-2	16.7	18.8	16.3	18.3	19.5	15.7	15.0	16.5	13.2	16.7
M68-37	17.8	25.4	15.5	18.7	19.6	16.7	17.0	16.6	14.2	16.5
	6 Tests	PROTEIN %								
Clay	40.2		41.4		42.1		38.0	40.8	37.1	41.9
Evans	38.9		41.3		40.9		36.2	39.7	35.7	39.4
Swift	37.8		41.0		39.5		35.1	39.1	33.4	38.7
M65-94	39.1		39.8		41.7		37.7	40.0	35.2	40.3
M65-295	37.6		39.4		39.5		35.4	37.7	34.1	39.3
M66-18	40.4		41.0		43.1		38.5	40.7	37.4	42.0
M66-30	39.7		41.0		42.1		37.2	40.0	36.4	41.4
M68-2	39.9		41.6		42.0		38.2	40.3	36.7	40.5
M68-37	38.5		41.6		40.3		36.8	37.9	36.4	37.9
	6 Tests	OIL %								
Clay	21.4		19.9		19.7		23.6	22.2	22.0	21.2
Evans	21.5		19.4		19.9		23.9	22.2	21.6	21.9
Swift	20.8		18.7		19.0		22.8	21.3	21.6	21.4
M65-94	21.2		20.8		19.4		23.0	21.5	21.7	20.6
M65-295	19.5		18.3		17.2		21.8	20.3	19.5	19.8
M66-18	20.7		20.2		18.3		23.0	21.6	20.7	20.3
M66-30	20.7		20.3		18.7		23.2	21.4	20.4	20.4
M68-2	20.1		18.9		18.2		22.1	21.1	19.8	20.4
M68-37	21.2		19.0		19.5		23.0	22.4	20.3	22.9

Strain	Parentage	Line
1. Evans		
2. Swift		
3. M67-22	Wayne x Clay	F
4. M67-31	Clay x Provar	"5
5. M67-37	M402 (Renville x Capital) x Chippewa 64	"
6. M67-45	Merit x Rampage	"
7. M67-65	Clay x M406 (Harosoy x Norchief)	"
8. M68-38	Evans x M59-120	"

None of the new strains show any distinct yield advantage over Evans. Two entries, M67-45, and M67-65, are equal in yield to Evans, are two days earlier in maturity but are susceptible to phytophthora root rot. The entries M67-22, M67-31, M67-37, and M68-38 have better lodging resistance but are lower yielding than Evans.

Disease Data

Strain	<u>BS</u>	<u>DM</u>	<u>FE₂</u>	<u>BSR</u>		<u>PSB</u>	<u>PS</u>	<u>SMV</u>	<u>PR</u>		
	Laf. Ind.	Sull. Ind.	Laf. Ind.	Laf. Ind.	Ames Iowa	Laf. Ind.	Laf. Ind.	Laf. Ind.	Laf. Ind.	Ames Iowa	
	n	n	a	n %	n % stem	n % plants	d %	a	n seed	a	a
Evans	5	3	5	10	53	95	42	2	4E	R	R
Swift	3	3	5	60	45	90	68	4	5E	S	S
M67-22	3	3	5	50	67	100	60	2	4E	S	S
M67-31	4	2	5	40	61	100	72	2	5E	S	S
M67-37	4	2	5	50	57	100	76	2	4E	R	H
M67-45	3	2	4	60	65	100	42	4	4E	S	S
M67-65	5	3	5	50	49	100	65	3	4E	S	S
M68-38	4	3	5	40	65	100	65	2	2M	R	R

Descriptive and Other Data

Strain	Descriptive Code		<u>Shattering</u>
			Manhattan Kansas
Evans	WGNBr	DYY	3
Swift	WTNBr	DYB1	5
M67-22	WTNBr	SYB1	3
M67-31	PTNBr	SYBr	2
M67-37	P+WTNBr	SYB1	3
M67-45	PGNBr	DYIb	2
M67-65	PGNBr	DYY	4
M68-38	WGNBr	DYBf	5

PRELIMINARY TEST 0, 1975

Regional Summary

Strain	Yield	Rank	Matu- rity	Lodg- ing	Height	Seed Qual.	Seed Size	Seed Composition	
								Protein	Oil
No. of Tests	8	8	7	7	7	6	8	5	5
Evans	38.7	2	9-19.0	2.2	31	1.5	15.7	39.6	20.6
Swift	37.7	4	+1.9	2.9	34	1.7	15.4	38.4	20.1
M67-22	34.4	7	-4.0	1.7	26	1.7	15.9	42.6	20.0
M67-31	37.3	6	-2.6	1.4	26	1.6	18.6	40.2	20.6
M67-37	32.2	8	-4.0	1.8	26	1.7	15.3	40.5	20.7
M67-45	39.1	1	-1.6	2.0	28	1.6	15.6	40.1	20.7
M67-65	38.2	3	-1.7	2.7	30	1.6	18.4	40.1	20.8
M68-38	37.6	5	+3.1	1.5	31	1.8	19.3	39.7	20.7

Strain	Mean	Ontario		Mich.	Wisc.	Minnesota		N.D.	S.D.
		Elora	Ridge- town	East Lans.	Spooner	Morris	Rose- mount	Fargo	Reville
	8 Tests	1975 YIELD (bu/a)							
Evans	38.7	41.8	61.4	41.2	21.7	32.6	46.5	40.0	24.4
Swift	37.7	41.3	52.3	45.9	19.1	44.4	37.6	37.4	23.3
M67-22	34.4	37.6	54.3	36.1	15.6	35.0	40.8	34.0	21.9
M67-31	37.3	46.3	56.3	35.2	15.3	37.3	44.0	38.1	26.1
M67-37	32.2	39.9	49.4	28.2	16.0	27.9	39.6	34.2	22.7
M67-45	39.1	43.3	55.3	47.0	19.8	35.4	44.8	41.6	25.7
M67-65	38.2	43.8	53.0	38.4	19.6	40.7	48.9	38.4	23.0
M68-38	37.6	41.0	56.0	38.7	18.3	39.1	50.5	33.9	23.0
C. V. (%)		14.2	4.3	20.9	20.4	10.0	7.6	12.6	6.6
L.S.D. (5%)		NS	5.6	11.9	8.8	9.1	6.4	9.9	NS
Row sp. (in.)		12	24	28	38	30	30	28	30
Rows/Plot		4	4	4	1	2	2	3	2
Reps.		2	2	2	2	3	3	2	3

YIELD RANK

Evans	2	4	1	3	1	7	3	2	3
Swift	4	5	7	2	4	1	8	5	4
M67-22	7	8	5	6	7	6	6	7	8
M67-31	6	1	2	7	8	4	5	4	1
M67-37	8	7	8	8	6	8	7	6	7
M67-45	1	3	4	1	2	5	4	1	2
M67-65	3	2	6	5	3	2	2	3	5
M68-38	5	6	3	4	5	3	1	8	5

Strain	Mean	Ontario		Mich.	Wisc.	Minnesota		N.D.	S.D.
		Elora	Ridge- town	East Lans.	Spoo- ner	Morris	Rose- mount	Fargo	Revilla
	7 Tests	MATURITY (relative date)							
Evans	9-19.0	9-25	9-16	9-18	9-29	9-6	9-12	*	9-27
Swift	+1.9	+2	+8	0	-7	+7	+2		+1
M67-22	-4.0	-9	-8	-5	+2	-3	-3		-2
M67-31	-2.6	-10	-4	-2	+2	-1	-3		0
M67-37	-4.0	-9	-6	-4	+2	-6	-4		-1
M67-45	-1.6	0	-4	-1	+2	-5	-1		-2
M67-65	-1.7	-2	-5	-1	+2	-3	-2		-1
M68-38	+3.1	+3	+13	0	+2	+2	+3		-1
Altona(00)	-14	-14				-15	-14		
Hodgson (I)	+7		+9	+10		+10	+7		+1
Date plntd.	5-19	5-20	5-20	5-20	5-23	5-9	5-15	5-23	5-27

* Not included in the mean.

Strain	Parentage	Previous Testing*	Line
1. Hark	Hawkeye x Harosoy	11	F ₉
2. Harlon	Blackhawk x Harosoy 63	2	F ₅
3. Hodgson	Corsoy x M372 (M10 x PI 180.501)	3	"
4. A73-128	Hark x [Provar x (Magna x Disoy)]	PI	"
5. A73-19068	IVR Ex5003 x Wells	PI	F ₄
6. A73-19084	" " "	PI	" ₄
7. A73-20059	IVR Ex5003 x L66L-144 (Wayne x L57-0034)	PI	"
8. M65-115	Anoka x Amsoy	2	F ₅
9. M65-442	" " "	2	" ₅
10. M68-48	Evans x M59-120 (II-54-240 x II-54-139)	PI	"
11. M68-49	" " "	PI	"
12. M68-94	M59-120 x Amsoy 71	PI	"

* Number of years in this test or name of last year's test.

Regional data for the past three years shows that the variety Hodgson, which is four days earlier than Hark in maturity, is two bushels higher yielding. Harlon is four days earlier in maturity than Hodgson, is phytophthora root rot resistant, but is four bushels lower yielding than Hodgson.

During the past two years none of the strains showed any yield advantages over Hodgson. The strains M65-115 and M65-442 have higher oil contents than other strains in the test.

The 4A strains new to the 1975 test showed a two-to-four bushel yield advantage over Hodgson. The strain A73-128 matured four days later than Hodgson, has a four bushel yield advantage, but does not have as good a lodging resistance as Hodgson and is susceptible to phytophthora. The strains A73-19068 and A73-19084 are resistant to phytophthora, are two and three bushels higher yielding, respectively, and A73-19068 is three days later and A73-19084 is two days later than Hodgson. The strain A73-20059 is two bushels higher yielding than Hodgson and is two days later maturing. The other three new entries show no advantage over Hodgson.

Disease Data

Strain	<u>RR</u>	<u>RP</u>	<u>RA</u>	<u>DM</u>	<u>MP</u>	<u>PR</u>		
	Urbano	Urbana	Laf.	Sull.	Laf.	Laf.	Ames	
	Ill.	Ill.	Ind.	Ind.	Ind.	Ind.	n %	n %
	n	a	n	n	a	n %	stem	plants
Hark	2	3	5	4	4	30	34	90
Harlon	3	3	5	2	5	50	73	100
Hodgson	3	1	5	3	4	50	57	90
A73-128	2	2	5	5	3	70	33	90
A73-19068	2	3	4	4	5	90	65	100
A73-19084	2	3	5	3	2	70	58	100
A73-20059	2	2	4	3	3	100	58	100
M65-115	1	4	3	2	5	80	75	100
M65-442	1	4	2	2	4	50	61	100
M68-48	1	3	2	4	5	30	67	95
M68-49	1	4	4	5	5	40	60	100
M68-94	2	3	5	5	4	70	66	100

Strain	<u>PSB</u>	<u>PS</u>	<u>SMV</u>	<u>PR</u>		
	Laf.	Laf.	Laf.	Laf.	Ames	Vickery
	Ind.	Ind.	Ind.	Ind.	Iowa	Ohio
	d %	a	n seed	a	a	n
Hark	39	4	5E	S	S	5
Harlon	45	5	4E	R	H	5
Hodgson	37	5	1	S	S	5
A73-128	69	5	5E	S	S	5
A73-19068	43	3	4E	R	H	5
A73-19084	44	4	5E	R	H	5
A73-20059	29	1	5E	S	S	5
M65-115	47	5	3E	S	S	5
M65-442	59	2	4E	S	S	5
M68-48	38	4	3E	R	R	5
M68-49	45	4	4E	R	H	5
M68-94	40	3	3E	R	R	5

UNIFORM TEST I, 1975
Descriptive and Other Data

Strain	Descriptive Code		Chlorosis			Fluor- escent Light	Hypo- cotyl	Perox- idase	Shattering Manhattan Kansas
			Crkstn. Minn.	Lamb. Minn.	Ames Iowa				
Hark	PGNBr	DYY	1.0	3.0	5	L	2	H	5
Harlon	WGNBr	DYY	1.0	1.5	2	E	1	L	4
Hodgson	PGNBr	DYBf	1.0	1.0	3	L	5	H	5
A73-128	PGNTn	DYY	1.0	2.0	3	L	2	H	5
A73-19068	PGNTn	DYBr	1.0	2.0	2	L	5	H	4
A73-19084	PGNTn	DYIb	1.0	1.0	2	L	2	H	5
A73-20059	P+WTNBr	DYBl	1.0	1.5	1	L	2	H	5
M65-115	PGNTn	SYIb	1.0	2.0	2	E	2	H	4
M65-442	PGNBr	SYI	3.0	2.5	4	E	5	H	5
M68-48	WGNBr	DYBf	1.0	1.0	3	E	2	L	3
M68-49	WGNBr	DYY	1.0	1.0	2	E+L	1	L	3
M68-94	WGNBr	DYY	1.0	1.0	1	L	3	L	3

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Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Height	Seed Qual.	Seed Size	Seed Protein	Seed Comp. Oil
<u>1975</u>									
No. of Tests	17	17	17	17	18	14	17	8	8
Hark	40.6	8	+3.4	1.6	31	1.6	15.9	41.5	21.5
Harlon	35.5	12	-3.3	1.7	31	1.9	15.7	39.2	23.0
Hodgson	40.8	6	9-14.4+	1.5	29	1.7	16.2	39.2	22.9
A73-128	44.2	11	+4.2	2.0	35	1.5	18.2	41.4	20.8
A73-19068	42.7	4	+3.1	1.6	28	2.5	16.2	40.9	21.4
A73-19084	43.6	2	+1.7	1.8	32	2.1	14.1	39.6	22.3
A73-20059	43.0	3	+2.4	1.8	28	1.7	16.8	40.5	22.0
M65-115	39.3	10	-2.1	1.5	25	2.4	16.2	39.5	23.9
M65-442	40.7	7	0	1.5	28	2.3	16.6	39.5	24.3
M68-48	39.2	11	+4.6	1.5	28	2.2	19.2	39.4	22.4
M68-49	39.6	9	-0.2	1.6	26	1.9	19.2	38.9	23.9
M68-94	40.9	5	+3.1	1.5	33	2.0	17.7	40.8	22.0
† 120 days after planting									
<u>1974-75, 2 YEAR MEAN</u>									
No. of Tests	35	35	32	37	37	28	35	16	16
Hark	37.0	4	+3.7	1.6	31	1.6	15.8	41.7	20.6
Harlon	34.4	5	-3.6	1.6	30	1.8	16.0	38.6	22.6
Hodgson	39.2	1	9-17.2+	1.4	29	1.6	16.2	39.0	22.3
M65-115	37.4	3	-0.8	1.5	28	2.0	16.2	38.6	23.4
M65-442	38.8	2	-0.4	1.4	28	2.0	16.6	38.9	23.4
† 120 days after planting									
<u>1973-75, 3-YEAR MEAN</u>									
No. of Tests	48	48	44	50	50	40	47	25	25
Hark	39.0	3	+4.3	1.7	33	1.5	16.1	41.8	21.0
Harlon	36.6	4	-3.8	1.6	32	1.7	16.4	38.9	22.9
Hodgson	40.9	1	9-16.1+	1.6	31	1.6	16.6	39.2	22.7
M65-115	39.6	2	-0.6	1.6	30	2.0	16.7	38.8	23.7
† 119 days after planting									

UNIFORM TEST I, 1975

Strain	Mean	Ontario		Ohio		Mich.	Ind.	Wisc.	
		Ridge- town	Harrow	Hoyt- ville	Wooster	Colum- bus	Dun- dee	Lafay- ette	Arling- ton
	17 Tests	1975 YIELD (bu/a)				*			
Hark	40.6	55.2	35.4	32.8	18.0	16.4	34.2	48.4	44.5
Harlon	35.5	61.6	34.6	27.5	17.4	10.1	31.2	33.7	42.8
Hodgson	40.8	60.2	41.2	26.8	16.2	12.4	34.1	42.1	44.1
A73-128	44.2	55.9	43.9	38.6	24.2	20.6	40.5	52.9	48.9
A73-19068	42.7	56.5	36.9	34.2	15.2	15.5	36.7	47.6	49.9
A73-19084	43.6	65.0	36.5	39.8	21.5	17.8	42.4	48.3	52.5
A73-20059	43.0	62.2	36.1	37.0	18.5	16.6	33.8	49.0	50.5
M65-115	39.3	58.1	39.2	32.2	19.0	10.8	24.6	37.5	46.3
M65-442	40.7	61.3	34.2	30.4	18.1	14.3	27.5	45.3	42.4
M68-48	39.2	54.8	35.2	27.5	14.5	11.4	31.0	40.9	46.1
M68-49	39.6	60.0	42.6	46.7	17.9	12.1	26.2	33.4	43.4
M68-94	40.9	56.3	45.5	36.7	21.2	11.1	32.8	44.8	45.5
C.V. %		6.9	10.0				23.2	8.0	6.8
L.S.D. (5%)		5.8	5.5				8.9	5.9	4.5
Row sp. (in.)		24	24	32	32	28	28	30	30
Rows/Plot		4	4	3	3	3	4	3	1
Rep.		4	4	4	4	4	3	3	4
		<u>YIELD RANK</u>							
Hark	8	11	9	7	7	4	4	3	8
Harlon	12	3	11	10	9	12	8	11	11
Hodgson	6	5	4	12	10	7	5	8	9
A73-128	1	10	2	3	1	1	2	1	4
A73-19068	4	8	6	6	11	5	3	5	3
A73-19084	2	1	7	2	2	2	1	4	1
A73-20059	3	2	8	4	5	3	6	2	2
M65-115	10	7	5	8	4	11	12	10	5
M65-442	7	4	12	9	6	6	10	6	12
M68-48	11	12	10	10	12	9	9	9	6
M68-49	9	6	3	1	8	8	11	12	10
M68-94	5	9	1	5	3	10	7	7	7

* Hail damage 8/9/75. Not included in the mean.

Strain	<u>Wisc.</u>	<u>Illinois</u>		<u>Minnesota</u>		<u>Iowa</u>		<u>S. Dakota</u>		<u>Neb.</u>
	<u>Dur-</u> <u>and</u>	<u>De-</u> <u>Kalb</u>	<u>Pon-</u> <u>tia</u>	<u>Was-</u> <u>uca</u>	<u>Lamber-</u> <u>ton</u>	<u>Greene</u>	<u>Kana-</u> <u>wha</u>	<u>Revilla</u>	<u>ings I</u>	<u>I</u>
<u>1975 YIELD (bu/a)</u>										
Hark	34.5	61.5	39.8	50.3	33.9	49.8	54.9	16.9	37.3	43.6
Harlon	40.0	49.1	36.4	44.7	26.8	38.0	41.0	15.0	30.0	33.6
Hodgson	35.1	58.9	42.9	51.7	36.5	50.3	52.5	22.5	40.1	38.0
A73-128	42.1	53.5	52.8	50.9	35.7	53.0	53.0	19.4	41.2	44.9
A73-19068	38.4	58.4	45.8	50.8	35.6	54.9	57.6	23.3	42.2	42.1
A73-19084	39.0	55.3	50.0	50.7	33.8	52.1	53.1	19.7	39.4	42.2
A73-20059	42.1	60.4	47.9	48.3	33.4	51.6	54.4	21.4	41.2	43.7
M65-115	36.6	55.8	37.5	49.6	34.6	43.3	51.2	24.7	41.3	36.4
M65-442	44.0	56.1	45.5	54.5	32.4	46.7	47.8	22.1	38.2	44.9
M68-48	39.4	57.9	38.7	43.9	36.4	50.7	49.5	22.1	39.5	37.9
M68-49	40.5	51.1	39.6	50.1	32.3	46.9	49.2	23.7	37.8	31.1
M68-94	41.9	52.8	34.9	48.9	32.0	45.9	58.1	21.4	41.3	34.9
C.V. %	10.5	3.7	17.5	12.0	9.9	6.3	9.1	9.1	5.3	7.9
L.S.D. (5%)	5.8	3.5	12.6	10.1	5.6	4.6	6.9	3.0	3.2	5.3
Row sp. (In.)	38	30	38	30	30	27	27	30	30	30
Rows/Plot	1	4	4	4	4	4	4	2	2	4
Rep.	4	3	3	3	3	4	4	4	4	3
<u>YIELD RANK</u>										
Hark	12	1	7	6	6	7	3	11	11	4
Harlon	6	12	11	11	12	12	12	12	12	11
Hodgson	11	3	6	2	1	6	7	4	6	7
A73-128	2	9	1	3	3	2	6	10	4	1
A73-19068	9	4	4	4	4	1	2	3	1	6
A73-19084	8	8	2	5	7	3	5	9	8	5
A73-20059	2	2	3	10	8	4	4	7	4	3
M65-115	10	7	10	8	5	11	8	1	2	9
M65-442	1	6	5	1	9	9	11	5	9	1
M68-48	7	5	9	12	2	5	9	5	7	8
M68-49	5	11	8	7	10	8	10	2	10	12
M68-94	4	10	12	9	11	10	1	8	2	10

UNIFORM TEST I, 1975

Strain	Mean	Ontario		Ohio		Colum- bus	Mich.	Ind.
		Ridge- town	Harrow	Hoyt- ville	Wooster		Dundee	Lafay- ette
35 Tests		<u>1974-75, 2-YEAR MEAN YIELD</u>						
Hark	37.0	53.4	30.2	26.7	22.8	17.7	39.4	46.2
Harlon	34.4	55.0	31.1	17.9	23.2	13.4	34.4	39.6
Hodgson	39.2	56.2	36.8	23.1	23.4	25.1	39.6	44.1
M65-115	37.4	57.0	34.4	25.0	21.6	14.3	32.8	40.2
M65-442	38.8	56.3	31.1	24.6	23.2	16.8	34.4	45.8
<u>YIELD RANK</u>								
Hark	4	5	5	1	4	2	2	1
Harlon	5	4	3	5	2	5	3	5
Hodgson	1	3	1	4	1	1	1	3
M65-115	3	1	2	2	5	4	5	4
M65-442	2	2	3	3	2	3	3	2
48 Tests		<u>1973-75, 3-YEAR MEAN YIELD</u>						
Hark	39.0	51.3	33.5	24.4	24.9	24.4	43.1	46.7
Harlon	36.6	54.8	33.9	16.4	25.5	21.4	37.9	39.2
Hodgson	40.9	56.3	38.5	21.7	25.2	30.0	42.7	43.0
M65-115	39.6	55.8	37.2	22.3	23.7	18.4	37.7	39.4
<u>YIELD RANK</u>								
Hark	3	4	4	1	3	2	1	1
Harlon	4	3	3	4	1	3	3	4
Hodgson	1	1	1	3	2	1	2	2
M65-115	2	2	2	2	4	4	4	3

Strain	Ar-	Wisc.	Ill.		Minn.		Ia.	S, Dak.	Neb.	
	ling-	Dur-	De-	Pon-	Wase-	Lamber-	Kana-	Revillo	Brook-	I MeadI
	ton	and	Kalb	tiac	ca	ton	wha		ings	

1974-75, 2-YEAR MEAN YIELD

Hark	39.9	26.4	51.2	31.8	40.9	30.1	43.6	19.6	36.5	44.2
Harlon	38.5	30.6	42.2	30.0	40.2	28.0	36.5	19.0	36.2	38.8
Hodgson	40.6	30.3	49.8	34.2	45.1	34.4	42.0	24.0	41.1	44.6
M65-115	41.5	32.0	46.0	30.2	44.3	33.7	43.2	26.7	43.0	43.0
M65-442	38.4	36.4	47.8	37.0	49.2	32.4	41.8	25.1	41.3	50.9

YIELD RANK

Hark	3	5	1	3	4	4	1	4	4	3
Harlon	4	3	5	5	5	5	5	5	5	5
Hodgson	2	4	2	2	2	1	3	3	3	2
M65-115	1	2	4	4	3	2	2	1	1	4
M65-442	5	1	3	1	1	3	4	2	2	1

1973-75, 3-YEAR MEAN YIELD

	<u>74-75</u>	<u>74-75</u>								
Hark	39.9	26.4	47.8	29.1	37.8	28.8	39.8	22.8	32.8	44.3
Harlon	38.5	30.6	39.8	27.8	38.7	28.3	35.0	23.5	32.9	40.5
Hodgson	40.6	30.3	46.7	31.2	42.9	33.8	38.5	27.8	36.6	46.9
M65-115	41.5	32.0	42.7	27.8	42.5	33.4	40.5	31.8	37.6	45.2

YIELD RANK

		<u>74-75</u>								
Hark	3	4	1	2	4	3	2	4	4	3
Harlon	4	2	4	3	3	4	4	3	3	4
Hodgson	2	3	2	1	1	1	3	2	2	1
M65-115	1	1	3	3	2	2	1	1	1	2

Strain	Wis.	Illinois		Minnesota		Iowa		S. Dakota		Neb.
	Dur- and	De- Kalb	Pon- tiac	Wase- ca	Lamber- ton	Greene	Kana- wha	Revilla	Brook- ings I	Mead I
<u>MATURITY (relative data)</u>										
Hark	-1	+8	+2	+4	+7		+5	+3	+3	0
Harlon	0	-2	-6	-8	-2		-8	-2	-3	-1
Hodgson†	9-30	9-4	8-29	9-15	9-3		9-7	9-28	9-26	9-14
A73-128	-4	+10	+6	+5	+8		+7	+2	+4	+1
A73-19068	+5	+7	+2	+3	+7		+5	+2	+3	0
A73-19084	+4	+5	+1	+1	+3		+2	+2	+2	-2
A73-20059	+5	+6	+4	+2	+5		+5	+3	+5	+4
M65-115	0	-1	-4	-3	-1		0	-2	-1	-2
M65-442	+1	+5	0	-3	+1		+1	-2	0	-2
M68-48	+4	+10	+1	+2	+8		+6	+2	+2	+2
M68-49	0	+8	-3	-1	0		-4	0	-1	0
M68-94	+2	+8	-1	+2	+6		+6	+1	+2	+2
Evans (0)	-3	-7	-8	-9	-6			-1	-3	
Corsoy (II)	+3	+8	+6	+7	+8		+10	+2	+11	+6
<u>Date</u>										
planted	5-21	5-13	5-16	5-14	5-7		5-10	5-27	5-24	5-16
†Dys to mat.	132	114	105	124	119		120	124	125	121
<u>LODGING (score)</u>										
Hark	2.8	2.3	1.2	1.7	1.3	2.0	2.2		1.3	1.0
Harlon	2.8	4.2	1.3	1.0	1.7	2.0	2.2		1.1	1.0
Hodgson	2.8	2.3	1.3	1.3	1.0	1.9	2.0		1.3	1.0
A73-128	2.0	3.2	2.2	2.0	1.7	2.5	2.4		1.4	1.0
A73-19068	3.2	3.0	1.5	1.3	1.0	2.0	2.1		1.3	1.0
A73-19084	3.0	4.0	1.7	1.3	1.3	2.2	2.3		1.4	1.0
A73-20059	2.8	3.2	1.5	1.7	1.0	2.4	2.4		1.9	1.0
M65-115	2.5	2.5	1.0	1.0	1.0	1.8	2.2		1.1	1.0
M65-442	2.2	2.3	1.3	1.3	1.0	2.0	2.1		1.2	1.0
M68-48	2.5	3.0	1.0	1.0	1.0	2.0	2.2		1.2	1.0
M68-49	2.5	3.5	1.2	1.0	1.3	2.2	2.1		1.2	1.0
M68-94	2.8	3.3	1.5	1.0	1.0	1.8	2.3		1.4	1.0

Strain	Mean	Ontario		Ohio		Mich.	Ind.	Wisc.	
		Ridge- town	Harrow	Hoyt- ville	Wooster	Colum- bus	Dun- dee	Lafay- ette	Arling- ton
18 Tests		<u>PLANT HEIGHT (inches)</u>							
Hark	31	40	32	27	20	22	24	30	29
Harlon	31	42	37	30	22	20	23	24	29
Hodgson	29	40	34	27	22	21	26	25	30
A73-128	35	45	39	33	23	25	36	34	32
A73-19068	28	34	29	25	20	18	24	27	26
A73-19084	32	43	38	30	21	20	26	30	30
A73-20059	28	33	28	28	20	22	24	28	26
M65-115	25	34	27	25	19	17	20	23	25
M65-442	28	36	27	28	20	16	25	27	26
M68-48	28	37	28	28	20	19	25	25	28
M68-49	26	38	32	22	18	17	26	23	24
M68-94	33	42	36	31	24	21	31	32	32
14 Tests		<u>SEED QUALITY (score)</u>							
Hark	1.6	1.0	1.5	1.7	2.0	1.5		1.5	
Harlon	1.9	2.0	2.5	1.5	1.5	2.2		2.0	
Hodgson	1.7	3.0	1.5	2.3	1.7	2.0		1.0	
A73-128	1.5	1.0	1.2	1.2	2.0	1.2		1.5	
A73-19068	2.5	2.0	2.5	2.5	3.2	2.2		2.0	
A73-19084	2.1	2.0	1.5	2.2	2.7	2.0		1.5	
A73-20059	1.7	2.0	1.2	2.2	2.0	1.2		1.0	
M65-115	2.4	4.0	2.2	3.0	3.0	2.5		1.5	
M65-442	2.3	3.0	2.2	3.7	3.2	3.0		1.5	
M68-48	2.2	2.0	1.8	2.0	2.2	1.7		2.0	
M68-49	1.9	2.0	2.0	1.2	1.5	1.5		2.0	
M68-94	2.0	2.0	1.5	2.2	2.2	2.2		1.5	
17 Tests		<u>SEED SIZE (g/100)</u>							
Hark	15.9	17.3	14.7	20.5	18.4	14.6	14.5	15.5	16.9
Harlon	15.7	18.5	14.9	17.0	15.2	16.8	15.8	14.0	16.1
Hodgson	16.2	16.9	15.3	17.8	19.0	17.6	16.7	15.9	16.4
A73-128	18.2	19.7	17.6	22.5	20.5	18.0	18.0	18.1	18.2
A73-19068	16.2	16.9	15.2	21.2	16.9	18.7	15.2	15.9	16.6
A73-19084	14.1	15.4	12.7	17.5	14.9	16.7	13.7	13.0	15.0
A73-20059	16.8	19.3	15.8	21.1	17.6	17.1	16.5	16.5	17.2
M65-115	16.2	17.6	14.3	20.7	15.7	13.9	16.3	14.7	17.7
M65-442	16.6	18.7	14.5	19.1	16.8	17.3	17.2	17.0	18.0
M68-48	19.2	19.9	17.1	22.4	21.0	19.6	18.6	19.0	20.0
M68-49	19.2	20.6	17.3	20.9	19.4	19.6	19.4	17.3	19.9
M68-94	17.7	20.4	16.9	21.4	18.4	17.8	18.2	16.9	18.7

Wisc. Dur- and	Illinois		Minnesota		Iowa		S. Dakota		Neb. Mead I
	De- Kalb	Pon- tiac	Wase- ca	Lamber- ton	Greene	Kanawa	Reville	Brook- ings I	
<u>PLANT HEIGHT (inches)</u>									
33	45	33	34	37	34	35	21	29	37
35	48	32	29	36	33	33	22	26	30
30	40	29	28	30	31	27	22	28	37
34	47	41	34	38	35	37	21	30	38
39	38	30	28	34	29	29	21	26	27
39	42	35	29	36	35	35	21	30	31
39	36	29	29	32	27	29	22	27	28
26	34	25	24	31	27	27	20	24	24
30	39	32	29	33	31	30	22	26	28
28	44	30	24	34	32	31	22	29	24
29	35	28	25	31	32	30	20	24	22
36	44	35	32	37	34	38	23	30	28
<u>SEED QUALITY (score)</u>									
	1.7	1.7	2.0	2.3		1.2	1.2	1.0	1.7
	2.2	2.2	2.0	2.7		1.1	1.1	1.1	2.0
	2.0	2.2	1.7	2.0		1.3	1.1	1.1	1.5
	2.0	1.8	1.7	2.3		1.1	1.3	1.2	1.2
	2.7	2.5	3.0	3.0		4.6	1.4	1.1	1.7
	2.3	2.3	2.7	3.0		2.1	2.4	1.1	1.5
	2.3	2.2	2.0	2.3		1.2	1.4	1.3	1.5
	2.7	2.5	2.7	2.7		2.7	1.2	1.1	2.0
	2.8	2.5	1.7	2.7		2.0	1.2	1.2	2.0
	3.0	2.8	3.0	3.0		2.4	1.9	1.3	1.8
	3.2	2.8	2.7	2.3		1.6	1.3	1.1	2.0
	3.3	2.7	1.7	3.0		1.9	1.2	1.0	1.5
<u>SEED SIZE (g/100)</u>									
14.1	17.0	12.7	16.3	14.7		16.2	16.3	14.3	15.7
15.7	15.7	12.5	16.0	12.1		15.6	16.1	14.4	20.6
13.6	17.1	14.0	16.3	12.7		16.8	16.3	15.3	18.2
13.7	18.5	16.4	18.5	15.9		19.5	18.7	16.1	19.7
15.0	17.0	12.9	16.4	13.5		16.6	16.2	15.8	16.2
14.0	13.9	11.8	15.1	11.1		14.2	14.3	13.1	13.7
15.1	18.0	15.0	16.9	14.2		16.8	16.1	15.1	16.7
15.1	17.3	13.8	17.8	13.6		17.9	14.9	15.7	17.7
15.8	18.0	15.5	16.9	12.3		16.0	14.4	15.4	18.7
16.3	20.3	15.8	20.4	17.9		20.6	17.8	17.5	22.2
17.5	20.9	17.3	21.8	16.5		21.3	17.7	18.0	21.4
15.6	19.4	14.3	17.5	15.0		19.2	16.2	16.0	18.2

UNIFORM TEST I, 1975

Strain	Mean	Ontario	Ohio	Ind.	Ill.	Minn.	Iowa	S.D.	Neb.
		Ridge- town	Colum- bus	Lafay- ette	De- Kalb	Wase- ca	Kana- wha	Brook- ings I	Mead I
	8 Tests	<u>PROTEIN (%)</u>							
Hark	41.5	43.9	43.2	38.7	41.6	41.0	40.8	42.1	40.8
Harlon	39.2	40.5	42.9	36.6	37.5	37.8	37.8	40.0	40.1
Hodgson	39.2	39.9	41.5	35.9	39.2	37.7	38.4	40.8	40.5
A73-128	41.4	43.7	43.5	39.1	40.2	40.5	42.5	40.5	41.0
A73-19068	40.9	43.2	43.1	39.2	41.7	39.8	39.8	40.5	39.9
A73-19084	39.6	41.4	42.2	37.4	38.5	38.4	39.1	39.9	40.0
A73-20059	40.5	42.7	43.2	37.8	41.0	39.2	40.3	40.0	40.1
M65-115	39.5	42.1	43.7	37.2	40.1	38.3	38.2	38.4	38.3
M65-442	39.5	42.3	43.9	37.0	38.4	38.1	38.7	39.3	38.4
M68-48	39.4	41.6	41.6	37.6	39.1	38.5	38.4	38.6	40.0
M68-49	38.9	40.2	41.9	37.6	38.9	37.9	38.2	38.1	38.7
M68-49	40.8	42.6	43.9	39.3	40.2	39.6	41.1	40.1	39.9
	8 Tests	<u>OIL %</u>							
Hark	21.5	19.0	22.0	23.6	21.3	21.0	22.0	20.4	22.5
Harlon	23.0	21.1	24.7	23.9	23.3	23.3	23.9	21.0	22.9
Hodgson	22.9	20.6	25.0	24.9	22.9	23.0	23.8	20.1	23.1
A73-128	20.8	18.4	21.1	22.1	21.0	21.0	20.6	20.1	21.8
A73-19068	21.4	19.0	21.9	22.9	20.5	21.8	22.2	20.4	22.8
A73-19084	22.3	19.8	22.6	24.0	22.3	22.8	22.9	21.2	22.9
A73-20059	22.0	19.8	22.9	23.6	21.5	22.2	22.4	20.8	23.2
M65-115	23.9	22.8	25.3	24.4	22.5	23.2	25.3	22.7	25.1
M65-442	24.3	20.7	26.9	25.8	23.8	23.8	25.2	22.6	25.7
M68-48	22.4	19.5	24.2	23.4	22.5	22.1	23.7	21.0	23.1
M68-49	23.9	22.0	24.7	24.6	24.0	23.9	24.3	22.8	24.7
M68-94	22.0	19.6	23.8	22.6	22.2	21.5	21.8	20.8	23.3

Strain	Parentage	Line
1. Hark		
2. Hodgson		
3. A74-101010	M63-17 (M402 x M406) x C1453	F4
4. A74-101014	Woodworth x Calland	"4
5. A74-101035	C1426 (C1253 x Kent) x AP68-315	"
6. A74-102011	M62-263 (Grant x M319W) x IVR Ex4426	"
7. A74-102012	" " "	"
8. A74-102015	Swift x Wye	"
9. A74-102020	M62-275 (Norchief x Harosoy) x L66L-144	"
10. A74-102021	L65-1342 x IVR Ex4311	"
11. A74-102027	IVR Ex5003 x Dunn	"
12. A74-102037	Wells x Wye	"
13. A74-103017	M60-92 (Comet x M319) x IVR Ex4428	"
14. A74-104026	IVR Ex5003 x Wells	"
15. A74-104030	" "	"
16. A74-104034	" x Beeson	"
17. A74-105021	L66L-137 (Wayne x L57-0034) x Calland	"
18. A74-201006	Amsoy x [Provar x (Disoy x Magna)]	F5
19. A74-201010	Hark x [Provar x (Disoy x Magna)]	"5
20. L73D-8	Corsoy x M59-120 (II-54-240 x II-54-139)	F6
21. L73D-80	M59-120 x L15 (Wayne-Rps)	"6
22. M67-68	Clay x Provar	F5
23. M67-144	Amsoy x Provar	"5
24. M67-148	Amsoy x Wayne	"

The 17 A entries have eight strains; A74-101010, A74-101035, A74-102011, A74-103017, A74-104030, A74-104034, A74-105021, and A74-201006 which have a regional mean yield one-to-three bushels better than Hark and have lodging resistance. The strains A74-104030 and A74-104034 are three bushels higher yielding than Hark, are both resistant to phytophthora root rot, (A74-104030 may show some tolerance), but are four days later than Hark and may belong in the Group II test. The strains A74-101010, A74-101035, and A74-105021 have the same maturity as Hark, are two bushels higher yielding than Hark, only A74-105021 is resistant to phytophthora. Strain A74-102011 also is two bushels higher yielding than Hark and is four days earlier maturing than Hark and is susceptible to phytophthora. The strain A74-201010 is equal in yield to Hark, one day later than Hark, has large seed and is high in protein.

The remaining five strains in the test are not superior to the checks for any characteristic.

PRELIMINARY TEST I, 1975

Disease Data

Strain	BB	BP	BS	DM	FE ₂	BSR		PSB	PS	SMV	PR			
	Urb	Urb	Laf	Sull	Laf	Laf	Ames	Laf	Laf	Laf	Laf	Ames	Vickery	
	IL	IL	IN	IN	IN	IN	IA	IN	IN	IN	IN	IA	OH	
	n	a	n	n	a	n	n % % stem	n % plants	d %	a	n seed	a	a	n
Hark	1	4	5	4	4	30	44	55	39	4	5E	S	S	5.0
Hodgson	2	4	5	3	4	50	41	50	37	5	1	S	S	4.5
A74-101010	1	4	5	5	2	80	39	65	26	5	1	S	S	4.5
A74-101014	2	1	4	3	5	100	59	80	35	2	4E	R	H	3.0
A74-101035	3	3	5	4	5	50	39	50	28	4	5E	S	H	4.5
A74-102011	1	4	4	3	5	50	60	85	55	4	3E	S	S	5.0
A74-102012	3	4	3	4	5	60	63	90	46	5	3E	S	S	5.0
A74-102015	1	4	3	2	5	70	68	100	56	4	5E	S	S	4.5
A74-102020	2	4	4	3	4	40	63	75	51	4	5E	S	S	5.0
A74-102021	2	1	4	3	3	70	59	80	62	4	5E	S	S	5.0
A74-102027	3	4	4	3	4	50	64	95	43	3	3E	S	S	5.0
A74-102037	2	4	5	3	1	40	64	100	43	3	3E	R	R	5.0
A74-103017	1	2	3	5	4	90	48	85	47	5	4E	S	S	4.0
A74-104026	3	4	3	2	4	50	55	90	33	4	4E	R	R	4.5
A74-104030	1	4	5	3	5	60	40	85	62	5	5E	R	R	4.0
A74-104034	1	4	4	4	2	70	33	55	42	5	5E	R	R	2.5
A74-105021	3	4	4	4	3	80	47	80	28	4	4E	R	R	3.5
A74-201006	3	3	4	4	4	40	62	90	62	4	5E	S	S	4.0
A74-201010	3	3	4	5	5	90	49	70	33	3	5E	S	S	3.5
L73D-8	3	3	3	3	4	80	45	90	52	5	5E	S	S	3.5
L73D-80	1	1	4	3	2	100	56	70	21	2	4E	H	H	5.0
M67-68	3	4	3	2	5	60	66	95	50	4	3E	S	S	5.0
M67-144	3	2	3	4	5	50	55	100	41	4	5E	S	S	3.5
M67-148	1	2	2	5	5	40	43	85	31	5	3E	S	S	4.5

PRELIMINARY TEST I, 1975
 Descriptive and Other Data

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Strain	Descriptive Code		Chlorosis	Shattering
			Ames Iowa	Manhattan Kansas
Hark	PGNBr	DYY	5	5
Hodgson	PGNBr	DYBf	3	4
A74-101010	WGNBr	SY Y	2	5
A74-101014	WTNTn	DYB1	4	5
A74-101035	PGNBr	SY Y+B1+Br	3	5
A74-102011	PG+TNBr	DYBr+B f	3	1
A74-102012	PGNBr	DYY	2	3
A74-102015	WTNBr	SYB1	3	5
A74-102020	WTNBr	DYY+G	3	5
A74-102021	WTNBr	SYB1	3	3
A74-102027	PGNBr	DYG	4	5
A74-102037	PGNBr	SYIb	5	2
A74-103017	P+WGN Tn	DYY	5	5
A74-104026	PGNTn	SYB1	3	2
A74-104030	PGNTn	SYIb	4	1
A74-104034	PGNBr	SYBf+Ib	3	3
A74-105021	WTNTn	DYB1	4	3
A74-201006	PGNBr	SYBf	3	5
A74-201010	PG+TNTn	SY Y	5	4
L73D-8	WTNBr	SYBr	5	2
L73D-80	WTNBr	IYB1+Br	3	4
M67-68	PGNBr	SYBr	4	1
M67-144	PGNTn	DYY	3	2
M67-148	WGNBr	SY Y	4	3

PRELIMINARY TEST I, 1975

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Height	Seed Qual.	Seed Size	Seed Composition	
								Protein	Oil
No. of Tests	10	10	9	10	10	7	9	4	4
Hark	46.7	12	+4.7	1.7	34	1.5	16.4	42.0	20.4
Hodgson	44.1	22	9-16.4	1.5	32	1.5	16.4	39.5	22.3
A74-101010	48.6	3	+3.8	1.5	33	1.9	17.5	40.5	21.1
A74-101014	46.7	12	+5.8	1.9	32	1.7	17.8	39.9	21.0
A74-101035	48.1	6	+5.4	1.9	35	2.0	19.4	40.4	21.4
A74-102011	48.2	5	+1.1	1.7	29	2.4	17.4	38.8	21.4
A74-102012	46.7	12	+1.3	1.9	28	2.1	18.9	39.6	21.0
A74-102015	46.1	17	+2.2	2.3	32	2.5	16.6	37.9	22.8
A74-102020	43.5	24	-1.7	1.6	33	1.9	18.6	39.4	21.4
A74-102021	44.5	21	+0.3	1.8	31	1.8	16.3	41.8	20.5
A74-102027	43.8	23	+1.8	1.7	30	1.4	15.8	42.6	20.2
A74-102037	45.0	19	0	1.3	28	1.7	14.4	40.5	22.0
A74-103017	47.9	7	+6.8	2.0	33	2.3	15.2	39.3	20.6
A74-104026	47.2	10	+7.0	2.0	30	2.6	15.9	40.8	21.2
A74-104030	50.0	1	+8.7	1.9	34	2.1	18.8	41.8	20.8
A74-104034	49.2	2	+8.6	1.7	33	2.0	20.6	41.1	21.2
A74-105021	48.5	4	+5.4	2.1	34	2.0	18.7	38.6	21.0
A74-201006	47.5	8	+2.2	1.7	31	2.2	22.6	39.4	21.8
A74-201010	47.0	11	+6.1	2.1	33	2.4	23.7	44.5	19.5
L73D-8	44.9	20	+9.3	2.9	39	2.3	17.3	40.5	20.3
L73D-80	46.4	15	+9.7	2.9	39	2.4	16.9	40.8	20.4
M67-68	46.3	16	+0.7	1.8	27	2.0	21.7	41.7	21.8
M67-144	47.4	9	+1.9	1.9	33	1.7	19.9	42.2	21.6
M67-148	45.8	18	+5.7	2.0	38	2.0	17.1	39.7	21.5

PRELIMINARY TEST I, 1975

Strain	Mean	Ont.	Ohio	Mich.	Wisc.	Ill.	Minn.		Iowa	S.D.		
		Ridge- town	Hoyt- ville	East Lans.	Ar- ling.	De- Kalb	Wase- ca	Lamber- ton	Kana- Greene wha	Brook- ings I		
	10 Tests			YIELD RANK								
Hark	12	4	18	13	7	6	21	18	5	14	21	
Hodgson	22	8	12	15	24	9	23	24	11	19	3	
A74-101010	3	13	2	21	5	6	13	20	3	21	19	
A74-101014	12	1	23	22	6	9	7	6	12	17	14	
A74-101035	6	18	7	5	3	16	6	21	13	4	14	
A74-102011	5	10	24	2	21	14	2	7	9	7	6	
A74-102012	12	14	12	11	17	19	15	1	10	13	3	
A74-102015	17	6	11	7	10	22	12	5	23	9	13	
A74-102020	24	12	21	9	16	24	4	23	16	23	17	
A74-102021	21	9	14	5	18	13	18	17	22	24	7	
A74-102027	23	22	15	23	9	17	14	8	24	16	8	
A74-102037	19	2	16	16	21	4	16	22	21	12	9	
A74-103017	7	20	6	10	12	15	11	14	4	11	1	
A74-104026	10	16	5	19	20	3	5	11	2	14	12	
A74-104030	1	5	17	17	2	1	3	10	7	1	24	
A74-104034	2	10	20	20	1	2	9	11	1	6	22	
A74-105021	4	3	19	3	15	21	1	4	6	10	11	
A74-201006	8	19	8	3	14	12	8	9	8	18	2	
A74-201010	11	7	9	8	13	8	20	11	14	8	20	
L73D-8	20	24	22	18	11	5	16	19	19	5	18	
L73D-80	15	21	4	24	4	22	10	2	15	2	23	
M67-68	16	16	1	14	23	20	22	3	20	22	5	
M67-144	9	15	3	1	19	9	24	15	17	20	10	
M67-148	18	23	10	12	8	18	19	16	18	3	16	

PRELIMINARY TEST I, 1975

Strain	Mean	Ont.	Ohio	Mich.	Wisc.	Ill.	Minn.		Iowa	S.D.	
		Ridge- town	Hoyt- ville	East Lans.	Ar- ling.	De- Kalb	Wase- ca	Lamber- ton	Greene wha	Brook ingsI	
	9 Tests	<u>MATURITY (relative date)</u>								*	
Hark	+4.7	+9	0	+2	+5	+7	+3	+9	+3	+4	
Hodgson	9-16.4	9-25	9-15	9-28	9-26	9-3	9-15	9-4	9-6	9-26	
A74-101010	+3.8	+2	+7	+2	+3	+7	+6	+5	-1	+3	
A74-101014	+5.8	+3	+7	0	+5	+7	+8	+11	+6	+5	
A74-101035	+5.4	+8	+7	+1	+7	+8	+7	+3	+5	+3	
A74-102011	+1.1	-6	+7	-2	-1	0	+4	+5	+3	0	
A74-102012	+1.3	-1	+9	0	-1	+1	-1	+3	+1	+1	
A74-102015	+2.2	+6	+7	-2	-1	0	-2	+4	+5	+3	
A74-102020	-1.7	+1	+4	-1	-2	-3	-6	-1	-7	0	
A74-102021	+0.3	+1	+4	-1	0	-1	-4	+2	-1	+3	
A74-102027	+1.8	+5	+7	+1	-1	+1	-3	+4	+1	+1	
A74-102037	0	-4	+7	-1	-1	+1	-2	0	-1	+1	
A74-103017	+6.8	+9	+9	+1	+3	+10	+9	+12	+5	+3	
A74-104026	+7.0	+7	+9	+1	+5	+9	+8	+9	+10	+5	
A74-104030	+8.7	+12	+9	+3	+5	+13	+9	+10	+11	+6	
A74-104034	+8.6	+7	+9	+4	+7	+12	+10	+11	+9	+8	
A74-105021	+5.4	+1	+9	-1	+3	+8	+8	+9	+7	+5	
A74-201006	+2.2	+4	+9	-1	+1	+4	-1	+1	+1	+2	
A74-201010	+6.1	+6	+10	+2	+5	+7	+6	+9	+5	+5	
L73D-8	+9.3	+15	+10	+5	+7	+13	+6	+9	+13	+6	
L73D-80	+9.7	+13	+10	+4	+7	+13	+8	+11	+13	+8	
M67-68	+0.7	-4	+10	0	-3	-1	-1	+2	+1	+2	
M67-144	+1.9	-1	+10	0	+5	0	-3	+3	+1	+2	
M67-148	+5.7	+8	+10	+2	+3	+8	+6	+4	+7	+3	
Evans (O)	-7	-9		-10	-6	-6	-9	-7		-3	
Corsoy (II)	+9	+13	+13	+6	+7	+9	+7	+7	+12	+11	
Date planted	5-17	5-20	5-19	5-20	5-22	5-13	5-14	5-7	5-16	5-10	5-24

* Not included in the mean.

Strain	Parentage	Previous Testing *	Line
1. Amsoy 71	Amsoy ⁸ x Cl253 (Blackhawk x Harosoy)	6	4 F ₃
2. Beeson	Cl253 x Kent	8	F ₇
3. Corsoy	Harosoy x Capital	11	F ₉
4. Harcor	Corsoy x OX383 (Corsoy x Harosoy 63)	1	F ₄
5. A73-229	Amsoy x Provar x (Magna x Disoy)	PII	F ₅
6. A73-22051	Corsoy x IVR Ex4426	PII	F ₄
7. A73-22050	M59-120 (II-54-240 x II-54-139) x IVR Ex4731	PII	"
8. A73-25088	M59-120 (II-54-240 x II-54-139) x IVR Ex4731	PII	"
9. L70D6-16	L63-1212 (Harosoy-1n) x Cl426	1	F ₃
10. L71-2071	Merit x SL12 (Wayne-I r Rpm Rps)	PII	F ₄
11. L71-2322	Beeson x SL12 (Wayne-I r Rpm Rps)	PII	F ₅
12. L71-2855	" "	PII	"
13. L72A-14	Calland x Amsoy	PII	F ₆

* Number of years in test or name of 1974 Test.

The seven year regional mean for the three check varieties shows less than one-half bushel difference in yield, although Corsoy is 3-4 days earlier in maturity than Amsoy 71 and Beeson. Corsoy is susceptible to phytophthora root rot.

In the two year regional mean, the check variety Harcor is 1 bushel higher yielding and 1 day earlier in maturity than Amsoy 71, but lodges more severely than the other entries in the test. The entry L70D6-16 shows no advantage over any of the check varieties for any characteristic.

In 1975 the strain L71-2855 is slightly higher yielding and has the same maturity as Harcor and is also phytophthora root rot resistant and may show tolerance to phytophthora. L71-2855 has good lodging resistance and has moderately high Protein content.

Strains A73-229, A73-22051, A73-25050, and L70D6-16 have yields similar to Amsoy 71, but are 1 to 2 days later in maturity. Strains A73-229, A73-22051, and A73-25050 are susceptible to phytophthora.

Disease Data

Strain	<u>BB</u>	<u>BP</u>	<u>BS</u>	<u>DM</u>	<u>FE₂</u>	<u>BSR</u>		
	<u>Urb.</u>	<u>Urb.</u>	<u>Laf.</u>	<u>Sull.</u>	<u>Laf.</u>	<u>Laf.</u>	Ames	
	Ill.	Ill.	Ind.	Ind.	Ind.	Ind.	n %	Iowa n %
	n	a	n	n	a	n %	stem	plants
Amsoy 71	3	3	4	5	4	50	49	95
Beeson	3	4	4	5	1	70	56	100
Corsoy	1	4	4	4	5	20	45	95
Harcor	2	4	3	4	4	40	42	100
A73-229	2	2	3	3	4	90	46	90
A73-22051	1	4	4	4	5	70	41	95
A73-25050	1	4	4	5	4	80	54	65
A73-25088	1	1	4	5	4	80	35	85
L70D6-16	2	3	4	5	5	50	53	95
L71-2071	1	2	5	5	5	70	67	100
L71-2322	2	1	4	3	3	90	60	90
L71-2855	2	1	3	3	4	50	54	90
L72A-14	2	3	5	5	2	60	55	100

Strain	<u>PSB</u>	<u>PS</u>	<u>SMV</u>	<u>PR</u>		
	<u>Laf.</u>	<u>Laf.</u>	<u>Laf.</u>	<u>Laf.</u>	Ames	Vickery
	Ind.	Ind.	Ind.	Ind.	Iowa	Ohio
	d %	a	n seed	a	a	n
Amsoy 71	49	5	5E	R	R	4.0
Beeson	31	5	3M	R	R	3.5
Corsoy	69	5	5E	S	S	5.0
Harcor	49	5	5E	R	H	3.0
A73-229	59	5	3E	S	S	4.0
A73-22051	58	5	4E	S	S	4.0
A73-25050	43	4	5E	S	S	5.0
A73-25088	42	3	5M	S	S	5.0
L70D6-16	55	5	4E	R	R	3.0
L71-2071	51	3	1	R	H	4.0
L71-2322	66	3	2M	R	R	3.5
L71-2855	55	5	4E	R	R	2.5
L72A-14	46	5	1	R	R	3.5

UNIFORM TEST II, 1975
Descriptive and Other Data

Strain	Descriptive Code	Chlorosis			Fluor- escent Light	Hypo- cotyl	Perox- idase	Shattering Manhattan Kansas	
		Crkatn. Minn.	Lamb. Minn.	Ames Iowa					
Amsoy 71	PGNTn	SYy	1.0	1.0	3	L	5	H	5
Beeson	PGNBr	SYIb	1.0	2.5	4	L	5	L	5
Corsoy	PGNBr	DYY	1.0	1.5	5	E	1	H	1
Harcor	PGNBr	SYy	1.0	2.0	5	E	1	H	3
A73-229	PGNBr	SYBf	1.0	1.5	4	L	2	H	5
A73-22051	PGNBr	DYY	2.0	2.0	5	L	4	H	2
A73-25050	WTNBr	SYBr	1.0	1.5	3	L	5	L	5
A73-25088	WTNTn	SYBr	1.0	1.0	2	L	5	L	4
L70D6-16	PGNBr	D+SYy	1.0	1.5	3	L	1	L	5
L71-2071	WGNBr	DYY	1.0	3.0	4	L	5	L	5
L71-2322	PGNBr	SYG+Ib	1.5	4.0	4	L	1	L	5
L71-2855	WTNBr	SYBl	1.0	1.5	3	L	2	L	5
L72A-14	PGNBr	DYIb	1.0	1.5	5	L	5	L	5

UNIFORM TEST II, 1975

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Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Height	Seed Qual.	Seed Size	Seed Composition	
								Protein	Oil
<u>1975</u>									
No. of Tests	26	26	24	25	26	23	23	11	11
Amsoy 71	44.7	4	+2.5	2.0	38	2.4	17.1	39.4	22.2
Beeson	44.3	8	+4.0	1.6	34	2.2	19.2	40.9	20.7
Corsoy	43.5	9	9-17.0+	2.2	35	2.2	16.0	40.5	21.5
Harcor	45.2	2	+2.8	2.3	36	2.2	15.5	40.3	21.0
A73-229	44.5	6	+4.2	2.0	37	2.5	19.8	40.7	21.3
A73-22051	44.4	7	+4.8	2.3	34	2.3	17.4	40.7	20.4
A73-25050	44.9	3	+5.1	2.1	35	2.2	17.2	39.1	23.2
A73-25088	42.9	12	+4.4	1.9	38	2.0	15.4	39.0	21.6
L70D6-16	44.6	5	+3.7	1.6	36	2.1	18.0	40.5	21.3
L71-2071	41.5	13	-0.9	2.1	36	1.9	13.4	39.6	22.2
L71-2322	43.4	10	+0.2	2.2	35	2.3	19.9	42.7	20.7
L71-2855	45.5	1	+3.2	1.7	34	2.1	21.0	42.2	21.1
L72A-14	43.3	11	+4.5	1.5	34	2.1	18.7	40.5	20.9
+ 121 days after planting									
<u>1974-75, 2-YEAR MEAN</u>									
No. of Tests	54	54	45	52	52	47	49	23	23
Amsoy 71	41.4	2	+2.6	2.0	36	2.2	17.2	39.5	21.5
Beeson	40.8	4	+3.8	1.6	34	2.1	19.0	41.3	20.0
Corsoy	40.6	5	9-21.3+	2.2	34	2.0	15.8	40.4	21.0
Harcor	42.2	1	+1.8	2.4	34	2.0	15.4	40.4	20.6
L70D6-16	41.0	3	+3.9	1.7	35	2.0	17.8	40.7	20.5
+ 120 days after planting									
<u>1969-75, 7-YEAR MEAN</u>									
No. of Tests	191	191	157	183	188	166	157	96	96
Amsoy 71	44.0	1	+3.0	2.3	41	2.2	17.2	39.6	22.4
Beeson	43.7	3	+4.0	1.9	38	2.2	19.0	40.7	21.2
Corsoy	43.9	2	9-19.7+	2.5	38	2.0	15.8	40.3	21.8
+ 118 days after planting									

UNIFORM TEST II, 1975

Strain	Mean	Pa..	N.J.	Md.	Ontario		Ohio		Colum- bus
		Landis- ville	Adel- phia	Clarks- ville	Ridge- town	Harrow	Hoyt- ville	Wooster	
26 Tests		<u>1975 YIELD (bu/a)</u>							
Amsoy 71	44.7	49.8	38.5	52.4	45.7	39.8	31.5	30.9	22.9
Beeson	44.3	54.3	38.9	49.5	40.8	45.9	37.6	32.4	18.4
Corsoy	43.5	45.0	35.2	45.6	57.0	43.3	35.7	16.3	25.8
Harcor	45.2	50.1	38.0	51.4	50.1	43.4	39.3	22.2	29.9
A73-229	44.5	50.4	37.9	52.2	45.2	44.8	37.5	26.1	21.6
A73-22051	44.4	48.3	36.8	48.0	40.3	46.3	40.7	22.4	28.0
A73-25050	44.9	56.4	39.3	52.1	38.7	46.0	31.7	21.1	30.3
A73-25088	42.9	53.0	41.1	47.3	41.1	44.0	33.7	26.2	20.0
L70D6-16	44.6	56.5	40.0	53.9	48.3	47.8	39.2	28.2	21.3
L71-2071	41.5	47.5	36.7	45.8	38.8	42.9	37.4	21.6	21.8
L71-2322	43.4	49.1	36.2	50.0	53.8	41.6	38.2	31.1	29.2
L71-2855	45.5	56.3	39.8	49.9	49.3	46.2	31.6	30.4	31.6
L72A-14	43.3	54.2	33.6	47.0	40.6	45.7	34.3	24.8	23.5
C.V. %		8.8	6.6	4.2	12.4	10.6			
L.S.D. (5%)		6.5	5.0	3.5	8.1	NS			
Row sp. (in.)		30	30	30	24	24	32	32	28
Rows/Plot		3	3	4	4	4	3	3	3
Reps.		4	4	3	4	4	4	4	4
<u>YIELD RANK</u>									
Amsoy 71	4	9	6	2	6	13	13	3	8
Beeson	8	4	5	8	9	5	5	1	13
Corsoy	9	13	12	13	1	10	8	13	6
Harcor	2	8	7	5	3	9	2	10	3
A73-229	6	7	8	3	7	7	6	7	10
A73-22051	7	11	9	9	11	2	1	9	5
A73-25050	3	2	4	4	13	4	11	12	2
A73-25088	12	6	1	10	8	8	10	6	12
L70D6-16	5	1	2	1	5	1	3	5	11
L71-2071	13	12	10	12	12	11	7	11	9
L71-2322	10	10	11	6	2	12	4	2	4
L71-2855	1	3	3	7	4	3	12	4	1
L72A-14	11	5	13	11	10	6	9	8	7

Mich. Dundee	Indiana			Illinois				
	Bluff- ton	Lafay- ette	Green- field	DeKalb	Pon- tiac	Urbana	Girard	Browns- town
<u>1975 YIELD (bu/a)</u>								
43.6	54.0	60.1	47.2	60.4	37.2	57.8	40.1	45.8
40.3	60.9	60.3	40.1	54.5	38.5	59.9	41.0	42.4
38.6	43.5	49.7	43.7	57.3	46.2	52.3	45.1	42.0
41.9	51.1	55.4	42.4	56.9	46.4	55.9	47.0	46.8
44.7	47.2	59.9	43.3	57.6	40.6	58.8	43.8	45.7
34.6	48.4	55.3	44.6	57.7	52.4	52.9	46.9	43.8
35.2	50.1	56.1	44.9	52.7	47.1	53.1	46.5	43.8
36.8	43.9	57.1	44.5	49.6	51.6	50.0	41.8	40.1
29.1	59.3	56.4	41.5	58.1	47.7	56.5	42.3	47.0
34.7	44.1	47.0	38.7	51.3	38.6	56.4	41.1	44.7
44.0	48.3	55.6	41.5	45.6	47.0	57.8	40.2	42.2
44.0	53.9	54.3	48.3	56.1	53.3	58.3	45.7	44.2
40.5	55.6	51.5	35.3	54.6	45.2	61.4	39.2	38.3
21.7	16.7	7.1	12.8	5.7	12.1	4.3	4.7	5.9
9.4	NS	6.6	NS	5.2	9.3	4.1	3.4	5.6
28	30	30	30	30	38	30	36	30
4	3	3	3	4	4	4	4	4
3	3	3	3	3	3	3	3	2
<u>YIELD RANK</u>								
4	4	2	2	1	13	5	12	3
7	1	1	11	9	12	2	10	9
8	13	12	6	5	8	12	5	11
5	6	8	8	6	7	9	1	2
1	10	3	7	4	10	3	6	4
12	8	9	5	3	2	11	2	7
10	7	6	3	10	5	10	3	7
9	12	4	4	12	3	13	8	12
13	2	5	9	2	4	7	7	1
11	11	13	12	11	11	8	9	5
2	9	7	9	13	6	5	11	10
2	5	10	1	7	1	4	4	6
6	3	11	13	8	9	1	13	13

UNIFORM TEST II, 1975

Strain	Minnesota		Iowa		Mo.	S. Dakota		Nebraska	
	Wase- ca	Lamber- ton	Ames	Sloan	Edina	Brook- ingsI	Center- ville	MeadI	Concord
<u>1975 YIELD (bu/a)</u>									
Amsoy 71	54.8	36.1	57.8	62.0	32.5	39.9	32.3	52.5	36.1
Beeson	51.7	34.1	66.2	61.1	29.3	32.6	32.8	51.2	36.7
Corsoy	50.1	39.6	59.7	62.2	31.6	43.9	31.3	49.7	41.2
Harcor	50.8	40.3	59.5	60.2	32.9	39.0	33.9	54.3	35.7
A73-229	54.5	34.7	57.8	64.9	32.8	38.0	31.6	50.5	33.7
A73-22051	50.8	37.9	61.3	64.0	33.5	36.4	33.8	53.3	36.1
A73-25050	51.5	41.2	64.1	69.1	38.6	40.0	34.4	53.4	30.5
A73-25088	49.2	32.8	60.7	61.5	29.2	36.0	32.8	52.7	37.7
L70D6-16	55.4	35.1	59.0	53.3	31.5	37.0	32.5	50.4	33.4
L71-2071	52.6	39.6	55.2	57.6	29.6	42.6	33.5	45.7	33.2
L71-2322	50.6	34.8	65.7	50.4	23.6	40.4	30.1	47.7	32.6
L71-2855	52.4	34.2	62.0	60.1	29.7	38.6	27.1	49.9	35.7
L72A-14	54.0	37.6	68.4	61.8	30.2	34.8	32.4	46.8	35.4
C.V. %	7.1	12.4	9.3	8.0	11.0	6.4	6.4	9.6	9.2
L.S.D. (5%)	6.2	7.7	7.6	6.5	4.2	3.8	3.2	8.3	5.4
Row sp. (in.)	30	30	27	27	30	30	30	30	30
Rows/Plot	4	4	4	4	2	2	2	4	4
Reps.	3	3	4	4	4	4	4	3	3
<u>YIELD RANK</u>									
Amsoy 71	2	7	11	5	5	5	9	5	4
Beeson	7	12	2	8	11	13	5	6	3
Corsoy	12	3	8	4	6	1	11	10	1
Harcor	9	2	9	9	3	6	2	1	6
A73-229	3	10	11	2	4	8	10	7	9
A73-22051	9	5	6	3	2	10	3	3	4
A73-25050	8	1	4	1	1	4	1	2	13
A73-25088	13	13	7	7	12	11	5	4	2
L70D6-16	1	8	10	12	7	9	7	8	10
L71-2071	5	3	13	11	10	2	4	13	11
L71-2322	11	9	3	13	13	3	12	11	12
L71-2855	6	11	5	10	9	7	13	9	6
L72A-14	4	6	1	6	8	12	8	12	8

UNIFORM TEST II, 1975

Strain	Mean	Pa.	N.J.	Md.	Ontario		Ohio		
		Landis-ville	Adel-phia	Clarks-ville	Ridge-town	Harrow	Hoyt-ville	Wooster	Colum-bus
54 Tests		<u>1974-75, 2-YEAR MEAN YIELD</u>							
Amsoy 71	41.4	51.2	43.8		46.3	34.0	28.2	32.6	29.6
Beeson	40.8	55.8	41.9		44.0	35.5	32.1	33.5	30.2
Corsoy	40.6	47.0	38.6		53.5	38.7	28.8	24.0	32.8
Harcor	42.2	50.2	39.6		51.6	37.6	30.0	30.4	35.3
L70D6-16	41.0	55.2	43.0		49.8	37.8	30.0	33.0	25.0

<u>YIELD RANK</u>									
Amsoy 71	2	3	1		4	5	5	3	4
Beeson	4	1	3		5	4	1	1	3
Corsoy	5	5	5		1	1	4	5	2
Harcor	1	4	4		2	3	2	4	1
L70D6-16	3	2	2		3	2	2	2	5

191 Tests		<u>1969-75, 7-YEAR MEAN YIELD</u>							
Amsoy 71	44.0				53.3	37.4	31.4	31.9	42.8
Beeson	43.7				49.5	38.3	31.7	33.5	43.6
Corsoy	43.9				56.3	39.6	29.6	27.4	38.6

<u>YIELD RANK</u>									
Amsoy 71	1				2	3	2	2	2
Beeson	3				3	2	1	1	1
Corsoy	2				1	1	3	3	3

24 Tests		<u>MATURITY (relative date)</u>							
Amsoy 71	+2.5	0	+1	-1	0	+1	-1	-2	0
Beeson	+4.0	0	+3	0	0	+7	-1	-2	0
Corsoy†	9-17.0	9-22	9-12	9-29	10-8	9-21	9-25	10-1	9-25
Harcor	+2.8	+6	+2	+1	0	+7	+3	+3	-1
A73-229	+4.2	+5	+2	+1	+1	+7	-1	0	-1
A73-22051	+4.8	+5	+2	+2	+1	+8	+2	+2	+2
A73-25050	+5.1	+6	+3	+2	+1	+5	+4	+2	+2
A73-25088	+4.4	+7	+3	+2	0	+7	+2	-1	-3
L70D6-16	+3.7	-7	+3	+2	+3	+5	-1	0	-1
L71-2071	-0.9	-7	-2	-6	-8	-3	-1	0	+4
L71-2322	+0.2	-4	-3	-2	-2	-3	-2	-1	+4
L71-2855	+3.2	0	+1	0	-2	+3	-3	-1	+6
L72A-14	+4.5	0	+2	-1	+1	+7	+2	+2	+4
Hodgson (I)					-13	-11	0	-26	0
Woodworth (III)		+10	+15	+4	+7	+14	+8	-7	+9
Date plntd.	5-19	5-29	5-29	6-11	5-20	5-27	5-19	5-14	5-15
† Dys. to mat	121	116	106	110	141	117	129	140	133

UNIFORM TEST II, 1975

Strain	Mich.	Indiana			Illinois				
	Dun- dee	Bluff- ton	Lafay- ette	Green- field	DeKalb	Pon- tiac	Urbana	Girard	Browns- town
<u>1974-75, 2-YEAR MEAN YIELD</u>									
Amsoy 71	41.6	48.2	55.5	44.6	51.2	32.4	53.2	43.2	41.8
Beeson	41.7	51.8	54.1	39.8	48.4	32.4	53.4	42.6	40.1
Corsoy	40.1	41.3	46.6	32.7	52.0	35.4	51.2	43.2	39.2
Harcor	41.0	44.2	53.8	39.2	51.4	37.1	52.8	45.6	40.6
L70D6-16	33.5	49.0	54.0	39.4	51.6	36.2	52.0	44.8	42.4
<u>YIELD RANK</u>									
Amsoy 71	2	3	1	1	4	4	2	3	2
Beeson	1	1	2	2	5	4	1	5	4
Corsoy	4	5	5	5	1	3	5	3	5
Harcor	3	4	4	4	3	1	3	1	3
L70D6-16	5	2	3	3	2	2	4	2	1
<u>69,71-75</u> <u>1969-75, 7-YEAR MEAN YIELD</u>									
Amsoy 71	43.2	49.5	54.2	43.8	51.6	37.5	52.2	47.3	43.1**
Beeson	44.5	50.7	52.1	43.1	50.2	38.8	53.6	45.8	41.7
Corsoy	46.0	46.3	50.3	35.6	52.0	39.8	53.9	49.4	39.7
<u>YIELD RANK</u>									
Amsoy 71	3	2	1	1	2	3	3	2	1
Beeson	2	1	2	2	3	2	2	3	2
Corsoy	1	3	3	3	1	1	1	1	3
<u>MATURITY (relative date)</u>									
Amsoy 71	+2	+7	+7	+2	+10	+2	+4	+2	0
Beeson	+4	+12	+9	+2	+9	+3	+7	+2	0
Corsoy †	9-18	9-17	9-1	9-11	9-12	9-4	9-5	8-25	8-28
Harcor	-1	+10	+7	+2	+7	+2	+4	+4	0
A73-229	+3	+10	+8	+2	+12	+3	+6	+4	+1
A73-22051	+3	+9	+7	+4	+11	+9	+7	+7	+3
A73-25050	+2	+2	+6	+4	+11	+9	+11	+7	+3
A73-25088	+1	+1	+8	+4	+9	+13	+10	+8	+4
L70D6-16	+1	+13	+8	+6	+11	+6	+4	+3	+2
L71-2071	-2	0	+1	0	+3	-1	+2	0	-3
L71-2322	-1	+9	+3	0	+1	0	+1	+1	-2
L71-2855	+2	+16	+7	+5	+4	+8	+3	+4	+1
L72A-14	+1	+10	+7	+3	+10	+7	+8	+3	+1
Hodgson (I)	-8		-7		-8	-6	-7	-5	-9
Woodworth(III)		+14	+16	+9	+18	+23	+22	+14	+13
Dte. Plntd.	5-22	5-13	5-7	5-21	5-13	5-16	5-16	5-16	5-21
† Dys. to maturity	119	127	117	113	122	111	112	101	99

** 1969-73 Edgewood, IL

UNIFORM TEST II, 1975

<u>Minnesota</u>		<u>Iowa</u>		<u>Mo.</u>	<u>S. Dakota</u>		<u>Nebraska</u>	
Waseca	Lamberton	Ames	Sloan	Edina	Brookings I	Centerville	Mead I	Concord
<u>1974-75, 2-YEAR MEAN YIELD</u>								
39.3	28.0	52.4	46.1	31.6	34.5	32.0	47.4	
37.2	25.8	58.1	45.8	28.2	28.6	30.3	44.4	
40.6	33.4	53.4	47.4	27.6	40.7	32.8	52.0	
40.5	33.2	54.8	44.8	32.0	36.9	32.9	53.0	
39.8	29.4	52.8	40.0	29.0	33.4	31.0	49.8	
<u>YIELD RANK</u>								
4	4	5	2	2	3	3	4	
5	5	1	3	4	5	5	5	
1	1	3	1	5	1	2	2	
2	2	2	4	1	2	1	1	
3	3	4	5	3	4	4	3	
<u>1969-75, 7-YEAR MEAN YIELD</u>								
38.8	37.0	50.6			29.0	33.7	45.3	37.8
39.2	35.6	52.7			27.6	32.9	44.4	38.0
41.6	42.9	52.7			35.1	35.6	48.4	39.3
<u>YIELD RANK</u>								
3	2	3			2	2	2	3
2	3	1			3	3	3	2
1	1	1			1	1	1	1
<u>MATURITY (relative date)</u>								
+5	+2	+6	*	*	+2	+2	0	+8
+9	+5	+9			+5	+3	+1	+10
9-22	9-12	9-9			10-9	10-2	9-20	9-13
+4	+2	+4			+1	+1	-1	-1
+9	+5	+11			+2	+4	+1	+5
+6	+6	+10			+5	+2	0	+3
+12	+9	+9			+3	+3	+1	+6
+4	+6	+7			+1	+3	+1	+8
+4	+4	+10			+3	+3	+1	+5
+4	+1	0			-1	-1	-7	+5
+4	+1	+3			-1	+1	-4	+3
+4	+2	+5			+2	+3	0	+7
+8	+5	+11			+7	+2	+2	+6
-4	-9	-5			-11	-2	-6	
+14	+19	+16				+11	+8	+13
5-14	5-7	5-12	5-19	5-23	5-24	5-21	5-16	5-26
131	138	120			138	134	127	110

UNIFORM TEST II, 1975

Strain	Mean	Pa.	N.J.	Md.	Ontario		Ohio		Colum- bus
		Lendis- ville	Adel- phia	Clarks- ville	Ridge- town	Harrow	Hoyt- ville	Wooster	
25 Tests		LODGING (score)							
Amsoy 71	2.0	3.0	4.3	3.2	4.0	1.5	1.5	1.0	1.0
Beeson	1.6	2.2	3.5	2.2	3.7	1.0	1.0	1.0	1.0
Corsoy	2.2	3.4	3.9	2.8	3.9	2.0	1.0	1.0	1.0
Harcor	2.3	3.0	3.6	3.0	3.7	3.0	2.5	1.0	1.0
A73-229	2.0	2.9	3.9	3.3	3.6	1.5	2.5	1.0	1.0
A73-22051	2.3	2.8	4.3	3.2	4.2	2.8	2.5	1.0	1.0
A73-25050	2.1	2.6	4.4	3.0	4.0	1.2	2.0	1.0	1.0
A73-25088	1.9	2.1	3.5	2.5	3.6	1.8	2.0	1.0	1.0
L70D6-16	1.6	2.0	3.1	1.7	2.7	1.0	1.0	1.0	1.0
L71-2071	2.1	3.0	4.0	2.8	4.2	2.0	2.5	1.0	1.0
L71-2322	2.2	3.2	3.8	3.7	3.6	2.8	2.0	1.0	1.0
L71-2855	1.7	2.4	3.3	2.5	3.5	1.2	1.0	1.0	1.0
L72A-14	1.5	1.5	3.5	2.0	3.5	1.0	1.0	1.0	1.0
26 Tests		PLANT HEIGHT (inches)							
Amsoy 71	38	41	44	37	52	40	32	29	25
Beeson	34	38	43	33	45	37	31	24	25
Corsoy	35	39	41	33	48	38	34	26	25
Harcor	36	42	43	37	48	40	34	25	26
A73-229	37	37	43	36	48	39	35	27	24
A73-22051	34	36	39	32	46	36	30	25	25
A73-25050	35	37	38	33	49	39	32	25	23
A73-25088	38	41	43	35	51	41	36	26	28
L70D6-16	36	43	44	35	49	39	36	24	22
L71-2071	36	41	38	34	53	39	35	27	28
L71-2322	35	34	39	34	47	39	33	28	25
L71-2855	34	38	41	34	48	36	31	26	29
L72A-14	34	37	40	34	42	38	31	26	26

<u>Mich.</u>	<u>Indiana</u>			<u>Illinois</u>				
Dundee	Bluff- ton	Lafay- ette	Green- field	DeKalb	Pon- tiac	Urbana	Girard	Browns- town
<u>LODGING (score)</u>								
2.0	2.3	1.8	1.2	2.7	1.5	3.0	2.2	2.0
1.5	1.2	1.0	1.2	2.5	1.0	2.0	1.3	1.4
1.5	2.0	1.7	1.5	3.2	2.2	3.3	2.4	2.2
1.0	2.3	2.0	1.8	3.8	2.2	3.7	2.4	2.6
1.0	1.7	2.2	1.2	2.5	1.5	3.3	2.0	2.2
1.0	1.8	1.8	1.0	3.0	2.7	3.4	2.0	2.7
1.0	2.3	2.5	1.3	3.0	2.2	3.4	2.5	1.5
1.0	1.5	2.2	1.2	2.7	2.2	2.9	2.0	1.5
1.0	1.5	1.3	1.0	2.3	1.5	2.8	1.5	2.0
1.0	2.2	1.7	1.3	3.2	1.8	3.1	2.4	2.2
1.5	2.0	2.0	1.3	4.2	2.5	3.1	2.3	2.7
1.0	1.5	1.2	1.3	2.8	1.7	2.2	1.4	2.1
1.0	1.0	1.0	1.0	2.7	1.2	1.9	1.2	1.2
<u>PLANT HEIGHT (inches)</u>								
40	36	38	37	50	41	45	43	39
33	31	33	30	46	35	40	37	34
32	29	32	34	45	39	37	39	37
32	31	34	35	47	39	39	42	36
34	33	37	32	49	38	41	40	37
28	27	33	33	46	36	36	38	34
34	31	38	33	50	40	39	39	34
28	32	42	38	51	40	43	44	39
24	35	37	34	48	41	40	42	37
30	31	36	32	46	39	40	41	37
34	32	36	34	49	38	38	38	34
33	32	35	31	46	38	36	37	33
32	30	33	28	48	37	40	37	32

UNIFORM TEST II, 1975

Strain	Minnesota		Iowa		Mo.	S. Dakota		Nebraska	
	Wase- ca	Lamber- ton	Ames	Sloan	Edina	Brook- ings I	Center- ville	MeadI	Concord
<u>LODGING (score)</u>									
Amsoy 71	1.0	2.0	1.8	2.2	1.0	2.0		1.3	1.0
Beeson	2.0	1.0	1.5	2.0	1.0	1.8		1.3	1.0
Corsoy	2.0	2.3	2.2	2.9	1.3	2.0		1.8	1.0
Harcor	2.7	1.7	2.4	2.8	2.0	1.8		1.3	1.0
A73-229	1.7	2.3	1.6	2.1	1.5	2.0		1.5	1.0
A73-22051	2.3	3.7	2.6	2.5	1.5	1.9		1.8	1.0
A73-25050	2.3	1.3	2.5	2.3	1.0	2.0		2.0	1.0
A73-25088	1.7	1.3	2.2	2.3	1.3	1.7		1.2	1.0
L70D6-16	1.7	2.0	1.7	2.4	1.0	1.7		1.3	1.0
L71-2071	2.0	2.0	2.3	2.4	1.0	1.9		1.3	1.0
L71-2322	2.0	1.7	1.9	2.1	1.5	1.9		1.2	1.0
L71-2855	1.0	1.7	1.5	1.7	1.0	1.7		1.0	1.0
L72A-14	1.7	1.0	1.5	1.8	1.0	1.9		1.3	1.0
<u>PLANT HEIGHT (inches)</u>									
Amsoy 71	38	41	40	41	34	38	24	42	28
Beeson	34	35	36	36	29	37	24	38	28
Corsoy	34	39	36	38	31	37	23	37	26
Harcor	35	39	38	38	31	36	23	37	28
A73-229	40	41	35	39	33	39	25	41	28
A73-22051	35	39	38	37	30	37	22	37	28
A73-25050	36	36	38	38	29	35	23	38	26
A73-25088	40	38	42	40	31	40	25	41	28
L70D6-16	37	40	39	40	33	39	24	40	27
L71-2071	40	38	40	39	33	39	22	36	27
L71-2322	37	39	38	36	29	36	23	37	27
L71-2855	24	36	39	38	30	35	22	35	26
L72A-14	38	36	37	36	29	36	24	37	28

Strain	Mean	Pa.	N.J.	Md.	Ontario		Ohio		Colum- bus
		Landis- ville	Adel- phia	Clarks- ville	Ridge- town	Harrow	Hoyt- ville	Wooster	
23 Tests		SEED QUALITY (score)							
Amsoy 71	2.4	3.5	2.0	3.5	2.0	2.0	1.7	2.2	2.5
Beeson	2.2	2.7	2.0	3.3	2.0	1.0	1.5	1.7	1.0
Corsoy	2.2	2.0	2.0	3.5	2.0	2.0	1.5	2.5	2.3
Harcor	2.2	2.1	1.8	3.5	2.0	1.8	1.5	2.2	1.8
A73-229	2.5	3.0	1.8	3.5	2.0	2.0	1.7	2.5	2.0
A73-22051	2.3	2.8	1.8	3.0	3.0	2.0	2.0	1.7	2.0
A73-25050	2.2	2.1	1.8	3.2	3.0	1.5	1.7	2.0	1.0
A73-25088	2.0	1.7	2.0	3.5	3.0	1.2	2.0	1.2	1.3
L70D6-16	2.1	2.8	1.8	3.2	2.0	2.0	1.5	2.2	1.0
L71-2071	1.9	1.6	1.8	3.3	2.0	1.2	1.5	1.7	1.5
L71-2322	2.3	2.6	2.3	3.5	3.0	1.8	1.5	2.0	1.0
L71-2855	2.1	2.0	2.0	3.5	2.0	2.0	1.5	1.5	1.3
L72A-14	2.1	2.7	2.3	3.5	2.0	1.2	1.5	2.0	1.0
23 Tests		SEED SIZE (g/100)							
Amsoy 71	17.1	18.0	19.3	20.4	18.3	15.5	21.2	18.1	17.5
Beeson	19.2	18.0	22.3	23.2	17.3	18.7	24.7	23.6	20.6
Corsoy	16.0	19.6	15.9	18.8	16.8	14.9	20.4	18.2	17.0
Harcor	15.5	17.0	16.3	18.2	15.5	14.6	21.1	17.3	16.3
A73-229	19.8	21.6	21.0	21.5	19.0	18.0	25.7	21.2	19.8
A73-22051	17.4	18.7	18.3	19.6	17.8	16.8	21.7	20.1	19.3
A73-25050	17.2	18.8	17.4	19.9	17.4	17.8	23.5	19.2	17.5
A73-25088	15.4	16.9	17.8	18.5	14.8	14.8	20.6	17.6	15.8
L70D6-16	18.0	19.7	20.4	20.0	18.6	16.6	23.2	21.1	18.7
L71-2071	13.4	15.6	14.5	16.2	13.8	13.2	16.0	16.0	14.4
L71-2322	19.9	20.7	19.2	23.8	19.7	18.0	24.3	23.1	20.6
L71-2855	21.0	22.7	21.1	23.4	21.1	19.8	25.2	22.6	22.8
L72A-14	18.7	19.9	17.5	21.4	16.2	19.0	24.7	21.6	19.9

Strain	Mich.	Indiana			Illinois				
	Dun- dee	Bluff- ton	Lafay- ette	Green- field	Dekalb	Pon- tiac	Urbana	Girard	Browns- town
<u>SEED QUALITY (score)</u>									
Amsoy 71		3.0	2.0	1.5	2.5	2.5	3.5	3.3	2.7
Beeson		3.5	2.0	1.0	2.0	2.5	2.7	3.3	3.3
Corsoy		3.5	1.5	1.0	2.0	2.2	2.3	2.8	2.7
Harcor		3.5	2.0	1.5	2.2	2.5	2.3	3.0	2.5
A73-229		3.5	3.0	1.5	3.3	3.0	3.0	3.0	3.0
A73-22051		3.5	2.0	1.0	2.2	3.0	2.7	2.8	3.5
A73-25050		2.5	2.0	1.5	2.5	2.7	2.5	2.7	2.5
A73-25088		2.0	1.5	1.0	2.0	2.5	2.8	3.0	3.3
L70D6-16		2.5	2.0	1.5	2.5	2.5	2.3	2.7	2.5
L71-2071		1.5	1.5	1.0	2.0	2.0	2.3	3.3	3.2
L71-2322		3.0	2.0	1.5	2.2	2.7	3.3	3.5	3.7
L71-2855		3.0	1.5	1.5	2.0	2.5	2.7	3.0	3.3
L72A-14		3.0	2.0	1.0	2.5	2.5	2.3	3.5	3.2
<u>SEED SIZE (g/100)</u>									
Amsoy 71	17.4	21.8	17.1	16.4	19.0	13.1	15.2	12.7	12.8
Beeson	18.9	23.6	19.7	17.7	19.4	14.2	17.5	14.2	13.4
Corsoy	14.5	18.2	14.7	14.9	15.3	14.1	14.0	12.7	12.3
Harcor	14.9	18.2	15.8	14.7	15.0	13.4	13.0	13.3	11.4
A73-229	19.4	23.8	21.0	18.1	21.8	16.2	17.2	16.2	14.4
A73-22051	17.1	19.3	17.5	16.4	17.9	17.0	15.8	13.9	13.8
A73-25050	16.8	19.2	18.0	15.2	16.7	15.6	14.9	13.3	11.9
A73-25088	14.1	17.5	16.2	13.9	14.4	14.5	14.0	12.8	11.7
L70D6-16	16.3	22.2	18.4	16.7	19.9	15.0	15.4	13.7	13.0
L71-2071	12.7	12.8	12.4	12.2	12.6	10.7	12.3	10.2	10.6
L71-2322	18.0	23.5	20.1	18.9	18.3	18.4	18.4	17.5	15.6
L71-2855	21.2	25.3	20.8	21.4	19.9	19.3	19.5	17.6	16.8
L72A-14	18.7	23.3	18.6	16.9	19.3	15.4	16.8	14.1	13.4

UNIFORM TEST II, 1975

<u>Minnesota</u>		<u>Iowa</u>		<u>Mo.</u>	<u>S. Dakota</u>		<u>Nebraska</u>	
Waseca	Lamberton	Ames	Sloan	Edina	Brookings I	Centerville	Mead I	Concord
<u>SEED QUALITY (score)</u>								
2.0	2.7	2.4		3.2	1.3	1.4	1.8	
2.0	2.7	2.3		3.2	1.3	1.4	1.2	
2.7	2.0	2.7		3.5	1.2	1.3	2.3	
2.3	2.3	2.9		3.0	1.1	1.2	2.0	
2.3	3.0	3.1		3.5	1.3	1.7	1.8	
1.0	3.0	2.7		3.5	1.4	1.0	1.7	
2.0	2.7	2.3		3.8	1.9	1.5	1.7	
2.0	2.0	1.1		3.0	1.4	1.3	1.5	
1.7	2.0	2.1		3.0	1.3	1.2	1.5	
1.7	2.0	1.2		3.2	1.6	1.1	1.8	
2.0	2.3	1.7		3.5	1.5	1.4	1.7	
2.0	2.3	1.3		3.0	1.4	1.2	1.2	
1.7	2.3	1.8		3.2	1.5	1.4	1.2	
<u>SEED SIZE (g/100)</u>								
17.7	15.4	17.9			14.9	17.8	16.7	
19.3	18.9	21.5			16.9	20.5	18.6	
16.2	13.8	17.2			13.9	18.1	16.5	
15.8	14.0	16.8			13.0	16.1	15.9	
19.7	19.5	23.5			16.2	21.2	18.3	
16.4	15.5	18.6			14.3	18.1	16.6	
15.4	16.0	18.9			14.3	20.7	16.4	
13.7	13.5	16.5			12.6	16.2	15.2	
17.5	15.8	20.0			14.8	19.9	16.3	
13.1	12.5	15.1			11.9	14.6	14.9	
20.0	18.1	21.5			16.8	23.1	20.9	
19.6	18.0	21.8			18.3	23.8	21.2	
18.4	19.2	21.7			15.8	20.1	17.3	

UNIFORM TEST II, 1975

Strain	Mean	Md.	Ont.	Ohio	Indiana	
		Clarks- ville	Harrow	Colum- bus	Bluff- ton	Lafay- ette
	11 Tests	<u>PROTEIN (%)</u>				
Amsoy 71	39.4	39.4	37.9	42.1	42.1	38.6
Beeson	40.9	42.3	40.7	42.5	43.9	40.6
Corsoy	40.5	40.3	40.5	43.6	42.8	37.9
Harcor	40.3	41.0	40.1	41.8	43.1	39.1
A73-229	40.7	40.6	39.8	41.8	43.6	39.9
A73-22051	40.7	40.6	40.4	43.8	42.4	39.6
A73-25050	39.1	39.6	38.3	40.1	41.2	37.3
A73-25088	39.0	39.1	38.2	39.4	41.9	39.3
L70D6-16	40.5	40.7	38.6	42.8	43.1	39.3
L71-2071	39.6	39.5	38.1	41.9	42.3	37.8
L71-2322	42.7	44.8	42.1	43.9	44.8	41.5
L71-2855	42.2	43.5	41.2	43.5	45.0	41.1
L72A-14	40.5	41.4	40.0	41.6	43.9	40.3
	11 Tests	<u>OIL (%)</u>				
Amsoy 71	22.2	22.2	21.9	22.9	20.3	22.9
Beeson	20.7	19.9	19.9	20.5	20.0	21.3
Corsoy	21.5	21.7	20.6	20.8	20.9	23.0
Harcor	21.0	20.7	20.5	20.9	19.4	21.7
A73-229	21.3	21.2	20.9	22.6	20.4	22.2
A73-22051	20.4	20.1	19.9	19.8	20.3	21.2
A73-25050	23.2	22.5	22.3	24.1	22.2	25.1
A73-25088	21.6	21.4	21.5	22.5	20.4	22.5
L70D6-16	21.3	20.8	21.3	20.3	20.1	22.1
L71-2071	22.2	22.2	21.6	22.6	21.1	23.1
L71-2322	20.7	20.0	19.9	20.8	20.3	20.8
L71-2855	21.1	20.5	21.2	21.2	19.5	22.0
L72A-14	20.9	20.4	20.6	20.8	19.5	21.5

<u>Illinois</u>		<u>Minnesota</u>	<u>Iowa</u>	<u>S. Dakota</u>	<u>Neb.</u>
<u>DeKalb</u>	<u>Urbana</u>	<u>Lamberton</u>	<u>Ames</u>	<u>Centerville</u>	<u>Mead I</u>
<u>PROTEIN (%)</u>					
38.0	40.3	37.2	40.6	39.0	38.3
39.3	41.1	37.6	40.5	40.8	40.1
39.5	42.2	37.5	40.6	40.9	39.6
38.5	42.3	37.0	40.4	40.2	39.5
40.0	41.2	39.5	41.4	41.1	38.8
39.4	42.1	38.6	41.3	39.9	39.9
37.4	41.5	37.1	39.3	40.5	37.9
38.3	41.7	36.3	39.0	38.3	37.9
40.3	41.6	38.1	41.8	40.5	39.0
38.5	42.1	36.9	40.2	38.8	40.0
40.6	43.5	39.3	43.2	43.4	42.2
40.6	43.1	38.5	41.8	42.8	42.9
39.7	40.8	36.8	40.3	40.3	39.9
<u>OIL (%)</u>					
23.0	22.5	22.7	21.4	21.4	23.4
21.4	20.6	21.6	21.0	20.2	21.7
21.8	21.2	22.0	22.1	20.4	22.0
21.6	20.5	21.8	21.9	20.6	21.7
20.8	21.1	21.4	21.2	20.1	22.3
20.5	20.4	20.9	20.5	20.6	19.9
23.6	23.1	22.5	23.8	21.6	24.3
21.9	20.5	21.3	22.2	21.5	22.2
21.5	21.6	21.9	20.8	21.0	22.7
22.4	20.8	21.9	22.8	22.1	23.2
21.2	20.6	21.5	20.6	19.9	21.9
21.4	20.9	21.9	21.9	20.2	21.3
20.4	21.0	22.1	21.1	20.7	22.2

Strain	Parentage	Line	
1.	Beeson		
2.	Corsoy		
3.	A74-201026	Hark x [Provar x (Disoy x Magna)]	F ₅
4.	A74-202001	Corsoy x IVR Ex4426	F ₄
5.	A74-202019	Beeson x L66-1359 (Wayne x L57-0034)	" ₄
6.	A74-202036	Bonus x Swift	"
7.	A74-203001	Corsoy x Williams	"
8.	A74-203002	M59-120 (II-54-240 x II-54-139) x IVR Ex4731	"
9.	A74-203006	IVR Ex212 x M62-177 (M387 x M406)	"
10.	A74-203012	Corsoy x IVR Ex4426	"
11.	A74-204012	M62-275 (Norchief x Harosoy) x L66L-144	"
12.	A74-204023	M60-92 (Comet x M319) x Wye	"
13.	A74-204033	Beeson x L66-1359 (Wayne x L57-0034)	"
14.	A74-204034	M62-263 x CX407BC ₇ -326	"
15.	A74-205037	SL12 (Wayne-I r Rpm Rps) x Anoka	"
16.	A74-302012	L66L-137 (Wayne x L57-0034) x Calland	"
17.	C1522	Beeson x L63-1397 (Harosoy x T207); Semideterminate Line	F ₄
18.	C1523	" " " ; Indeterminate Line	" ₄
19.	C1524	" " " ; Semideterminate Line	"
20.	C1530	" " " "	"
21.	L69D100-16-2	C1423 (C1266R ⁸ x C1253) x Corsoy	F ₅
22.	L69D100-16-5	" " "	" ₅
23.	L69U2325-1-1	Hark x Disoy	"
24.	L70D9-4-5	M59-120 x L15 (Wayne-Rps)	"
25.	L71D52-1	L65-1324 (Wayne ² x L62-1926) x Cutler	F ₃
26.	L73D-78	M59-120 (II-54-240 x II-54-139) x L15	F ₆
27.	L73D-195	C1477 (Amsoy ⁸ x C1253) x Corsoy	" ₆
28.	L73D-253	L65-1324 (Wayne ² x L62-1926) x Cutler	F ₅
29.	L73D-261	" " " x SL5	F ₆
30.	L73D-296	L67-533 (Clark ⁶ x Higan) x Corsoy	F ₅
31.	L73D-308	L65-1324 x C1457 (C1266R ₆ x C1253)	" ₅
32.	L73U-163	Corsoy x L62-1251 (Clark ⁶ x T117)	F ₆
33.	U10124	C1432 (C1253 x Kent) x C1430 (C1253 x Kent)	F ₇
34.	U10150	C1430 x C1436 (C1253 x Kent)	" ₇
35.	U10816	C1253 (Blackhawk x Harosoy) x Wayne	F ₅
36.	U10913	" " " x "	" ₅

Of the 34 strains in the 1975 test, only A74-203002, A74-302012, and L73D-195 were higher yielding than both check varieties in the regional mean yield. The strain A74-302012 is 2 bushels higher yielding and 2 days later than Beeson is phytophthora resistant, has good lodging resistance, and is shattering resistant. The strain L73D-195 has the same maturity as Beeson and is 1 bushel higher yielding, and phytophthora resistant, but is somewhat lodging susceptible. The strains A74-203002 and C1523 are equal in yield to Beeson, are 2 days earlier maturing, and have good lodging resistance. The strain A74-203002 is phytophthora susceptible while C1523 is resistant to phytophthora and has a moderately high protein content.

PRELIMINARY TEST II, 1975

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Disease Data

Strain	BB	BP	BS	DM	FE ₂	BSR		
	Urbana	Urbana	Laf.	Sull.	Laf.	Laf.	Ames	
	Ill.	Ill.	Ind.	Ind.	Ind.	Ind.	Iowa	
	n	a	n	n	a	n	n %	n %
						%	stem	plants
Beeson	2	4	4	5	1	70	63	100
Corsoy	2	4	4	4	5	20	56	100
A74-201026	1	4	4	4	5	50	61	100
A74-202001	2	4	4	5	5	20	48	100
A74-202019	2	1	5	4	3	70	69	100
A74-202036	1	4	5	5	4	70	42	100
A74-203001	2	1	3	5	5	60	47	95
A74-203002	2	4	5	4	5	80	59	100
A74-203006	1	4	3	5	4	70	46	100
A74-203012	3	3	5	4	4	50	53	100
A74-204012	1	1	4	5	3	40	42	100
A74-204023	1	4	3	4	3	90	68	95
A74-204033	2	1	5	4	3	80	67	95
A74-204034	2	3	3	3	4	70	66	100
A74-205037	2	1	3	3	2	80	77	95
A74-302012	2	2	4	3	3	50	77	100
C1522	2	4	4	2	5	60	48	95
C1523	3	3	4	4	4	80	57	95
C1524	3	3	3	3	3	60	43	75
C1530	4	3	4	4	1	90	73	100
L69D100-16-2	4	3	4	5	4	80	47	85
L69D100-16-5	2	3	4	5	3	60	71	95
L69U2325-1-1	3	1	5	5	2	40	58	90
L70D9-4-5	1	1	4	3	3	60	71	85
L71D52-1	2	1	4	4	2	60	59	80
L73D-78	1	1	4	4	3	40	65	90
L73D-195	3	3	3	5	4	30	55	70
L73D-253	3	1	5	5	1	60	63	100
L73D-261	3	1	4	5	1	90	69	100
L73D-296	2	4	4	4	5	50	54	95
L73U-308	1	2	2	4	2	50	51	95
L73U-163	4	3	3	4	4	50	46	90
U10124	3	3	3	4	5	70	70	100
U10150	3	3	4	4	1	90	48	75
U10816	2	4	3	4	4	90	67	85
U10913	1	1	2	5	5	90	60	95

PRELIMINARY TEST II, 1975

Disease Data

Strain	PSB	PS	SMV	PR		
	Laf. Ind.	Laf. Ind.	Laf. Ind. n seed	Laf. Ind.	Ames Iowa	Vickery Ohio
	d %	a		a	a	n
Beeson	31	5	3M	R	R	3.0
Corsoy	69	5	5E	S	S	4.0
A74-201026	58	4	5E	S	S	4.0
A74-202001	46	4	4M	S	S	4.0
A74-202019	56	4	4E	R	R	3.0
A74-202036	55	5	5E	R	R	4.0
A74-203001	59	5	5E	S	S	5.0
A74-203002	64	5	5E	S	S	5.0
A74-203006	60	5	1	S	S	5.0
A74-203012	60	5	4E	S	S	4.5
A74-204012	46	4	3E	S	S	4.5
A74-204023	24	5	2M	S	S	4.5
A74-204033	52	4	5E	H	H	4.0
A74-204034	62	5	2M	R	R	4.5
A74-205037	47	5	5E	R	R	4.5
A74-302012	32	3	5E	R	R	4.0
C1522	32	5	4E	S	H	2.5
C1523	40	5	4E	R	R	4.0
C1524	41	5	5E	R	R	4.0
C1530	53	4	5E	R	R	4.0
L69D100-16-2	25	5	4M	S	S	4.0
L69D100-16-5	72	5	4M	S	S	4.0
L69U2325-1-1	35	5	5E	S	S	5.0
L70D9-4-5	58	5	5E	R	R	5.0
L71D52-1	63	5	4E	S	S	5.0
L73D-78	66	5	4E	R	H	4.5
L73D-195	49	5	5E	R	R	5.0
L73D-253	47	5	5E	S	S	4.5
L73D-261	46	5	5E	R	R	5.0
L73D-296	34	5	3M	S	S	5.0
L73D-308	70	5	5E	R	H	4.0
L73U-163	47	5	2M	S	S	5.0
U10124	45	5	5E	R	H	5.0
U10150	54	5	5E	R	R	5.0
U10816	55	5	3E	R	H	5.0
U10913	53	5	2M	R	H	5.0

PRELIMINARY TEST II, 1975
Descriptive and Other Data

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Strain	Descriptive Code		Chlorosis	Shattering
			Ames Iowa	Manhattan Kansas
Beeson	PGNBr	SYIb	5	5
Corsoy	PGNBr	DYY	5	2
A74-201026	PGNTn	DYY	4	5
A74-202001	PGNBr	DYBf+y	4	3
A74-202019	PG+TNTn	DYBl	4	5
A74-202036	WTNBr	DYBl	2	5
A74-203001	WTNTn	DYG	4	4
A74-203002	WTNTn	SYBr	3	5
A74-203006	PGNTn	DYY	4	2
A74-203012	PGNTn	DYBf+y	4	4
A74-204012	PTNBr	DYG	2	5
A74-204023	PTNBr	SYIb	5	4
A74-204033	PTNBr	SYBl	4	3
A74-204034	PGNTn	SYEb	4	5
A74-205037	PTNBr	SYBr	5	5
A74-302012	PTNTn	DYBl	4	2
C1522	PGNBr	DYIb	2	1
C1523	PGNBr	DYG	3	5
C1524	PGNBr	SYBf	4	2
C1530	PGNBr	DYY	4	4
L69D100-16-2	PGNBr	SYY	4	3
L69D100-16-5	PGNBr	SYY	4	5
L69U2325-1-1	PGNTn	SYY	5	5
L70D9-4-5	WTNBr	SYBr	4	3
L71D52-1	P+WTNBr	SYBl	5	5
L73D-78	WTNBr	DYBr	3	4
L73D-195	PGNBr	SYY	4	3
L73D-253	PTNBr	SYBl	4	5
L73D-261	PTNBr	SYBl	5	5
L73D-296	PGNBr	DYY	3	1
L73D-308	PTNBr	SYBl	5	5
L73U-163	PTNBr	DYG	4	2
U10124	PTNBr	DYBl	4	5
U10150	PTNBr	SYBl	5	5
U10816	WGNBr	SYBf	4	5
U10913	PGNBr	SYIb	5	5

PRELIMINARY TEST II, 1975

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Height	Seed Qual.	Seed Size	Seed Comp.	
								Protein	Oil
No. of Tests	10	10	10	9	10	8	10	4	4
Beeson	49.2	4	+5.1	1.7	35	1.7	19.8	41.1	21.0
Corsoy	43.5	34	9-17.6	2.1	34	1.8	16.7	40.1	22.0
A74-201026	47.4	12	+3.6	1.4	31	1.4	22.0	42.8	20.1
A74-202001	46.1	24	+3.1	1.6	34	1.6	17.4	40.4	21.2
A74-202019	46.5	20	+1.3	2.2	33	1.8	17.4	39.7	21.4
A74-202036	47.2	14	+4.7	1.6	38	1.8	17.4	39.5	22.9
A74-203001	47.5	11	+4.7	1.9	32	1.6	16.4	41.0	21.0
A74-203002	49.6	3	+3.4	1.7	39	1.7	19.3	37.2	24.4
A74-203006	45.1	25	+3.5	1.8	31	2.0	17.7	40.2	19.9
A74-203012	44.6	28	+2.5	1.7	33	1.9	16.7	40.8	21.0
A74-204012	44.8	27	+6.4	2.7	37	1.8	16.3	39.2	21.5
A74-204023	43.7	33	+5.7	2.8	33	1.6	15.3	38.6	22.0
A74-204033	46.3	21	+1.4	1.9	34	1.4	18.3	41.2	21.2
A74-204034	48.0	7	+1.4	2.4	35	1.8	18.4	38.1	22.8
A74-205037	46.2	22	+4.3	2.2	38	1.7	18.1	40.8	22.4
A74-302012	51.2	1	+7.4	1.6	37	1.5	19.8	38.6	22.2
C1522	46.9	16	+3.1	1.5	36	1.5	18.4	41.4	20.5
C1523	49.0	5	+2.9	1.7	38	1.8	21.8	42.3	20.4
C1524	47.8	8	+4.4	2.4	36	1.9	19.5	41.3	20.4
C1530	44.9	26	+1.7	1.6	38	1.5	19.0	40.6	21.8
L69D100-16-2	48.7	6	+7.1	2.3	38	1.5	18.3	41.5	21.4
L69D100-16-5	46.9	16	+4.3	2.5	40	1.7	18.0	42.3	22.0
L69U2325-1-1	47.6	9	+6.3	2.3	36	1.5	23.6	43.0	20.8
L70D9-4-5	46.7	19	+6.7	3.2	38	2.1	16.7	41.2	20.8
L71D52-1	46.8	18	+2.0	1.8	34	1.8	18.6	41.7	21.3
L73D-78	46.2	22	+3.2	3.0	40	2.2	17.6	39.4	22.2
L73D-195	49.9	2	+5.6	2.5	40	2.2	17.5	38.9	21.6
L73D-253	47.6	9	+2.5	1.8	34	1.9	18.7	41.9	21.8
L73D-261	43.2	35	+2.6	2.0	37	1.8	18.6	41.4	21.0
L73D-296	47.2	14	+5.9	1.9	36	1.7	16.6	39.0	22.4
L73D-308	47.3	13	+1.7	2.0	39	1.5	16.8	43.4	20.8
L73U-163	42.1	36	+10.5	3.0	38	1.7	16.4	42.4	19.7
U10124	44.6	28	+6.9	1.9	34	1.4	18.7	40.9	20.8
U10150	43.8	32	+4.7	1.8	37	1.5	19.0	43.2	20.9
U10816	44.0	31	+5.7	1.9	34	1.8	18.6	42.4	21.0
U10913	44.2	30	+4.2	2.0	37	1.8	19.0	43.0	20.6

Strain	Mean 10 Tests	N. J.	Ont.	Ohio	Mich.
		Adelphia	Harrow	Hoytville	Dundee
		YIELD (bu/a)			
Beeson	49.2	51.3	51.4	43.1	45.0
Corsoy	43.5	40.4	46.9	39.9	38.0
A74-201026	47.4	45.5	49.5	39.7	46.6
A74-202001	46.1	39.4	47.4	43.9	37.5
A74-202019	46.5	44.3	47.8	46.1	42.6
A74-202036	47.2	41.4	52.2	50.0	41.6
A74-203001	47.5	48.9	42.8	31.7	50.1
A74-203002	49.6	42.6	48.2	47.6	48.3
A74-203006	45.1	41.3	54.9	48.0	39.6
A74-203012	44.6	43.9	49.2	33.2	49.4
A74-204012	44.8	39.4	45.5	38.6	42.1
A74-204023	43.7	34.5	42.5	49.4	45.8
A74-204033	46.3	36.9	53.2	48.7	45.1
A74-204034	48.0	47.1	51.9	43.3	40.4
A74-205037	46.2	42.6	42.2	47.8	43.1
A74-302012	51.2	53.9	50.0	46.6	53.5
C1522	46.9	41.6	48.0	44.2	40.5
C1523	49.0	50.7	48.4	36.8	49.4
C1524	47.8	41.1	48.2	47.6	45.9
C1530	44.9	44.3	46.0	42.3	43.9
L69D100-16-2	48.7	35.0	56.8	48.1	44.4
L69D100-16-5	46.9	42.8	47.3	48.4	43.2
L69U2325-1-1	47.6	37.5	49.4	48.1	47.6
L70D9-4-5	46.7	39.5	46.7	48.2	41.8
L71D52-1	46.8	37.9	42.7	49.7	45.7
L73D-78	46.2	38.0	39.4	50.2	45.0
L73D-195	49.9	43.7	51.8	43.2	50.5
L73D-253	47.6	36.2	47.0	50.3	49.0
L73D-261	43.2	31.8	48.8	38.7	47.7
L73D-296	47.2	40.4	49.5	50.9	44.4
L73D-308	47.3	40.9	50.5	46.8	41.0
L73U-163	42.1	36.7	42.0	43.3	37.9
U10124	44.6	33.3	49.8	44.1	44.1
U10150	43.8	43.6	50.0	40.4	36.5
U10816	44.0	36.8	52.7	41.6	46.7
U10913	44.2	35.6	48.5	38.1	44.3
C.V. (%)		17.7	11.1		10.0
L.S.D. (5%)		14.8	NS		10.2
Row Sp. (in.)		30	24	32	28
Rows/Plot		3	4	3	4
Reps.		2	2	2	2

Strain	Ind.	Wisc.	Ill.	Iowa		S. Dakota	Neb.
	Lafayette	Arlington	Urbana	Ames	Sloan	Centerville	Mead
	YIELD (bu/a)					*	
Beeson	54.1	46.4	62.3	68.1	62.1	30.1	40.1
Corsoy	44.6	48.1	53.1	49.0	60.6	30.4	44.8
A74-201026	51.8	46.4	53.9	63.3	64.6	34.9	42.3
A74-202001	53.9	38.9	57.5	65.7	67.1	34.2	42.6
A74-202019	49.3	46.7	58.3	59.0	62.4	32.9	37.9
A74-202036	53.8	35.0	61.7	60.8	69.1	36.0	39.5
A74-203001	57.2	29.8	60.6	67.3	68.0	36.7	50.0
A74-203002	55.9	51.0	54.7	65.1	73.1	35.1	47.2
A74-203006	44.6	47.7	39.2	62.7	65.6	30.9	41.8
A74-203012	45.8	44.8	40.3	55.0	64.1	34.3	49.7
A74-204012	53.6	38.5	58.0	59.5	59.1	32.8	39.6
A74-204023	50.6	26.9	52.1	64.6	64.6	36.3	34.6
A74-204033	53.4	32.9	57.9	62.9	59.2	31.5	40.8
A74-204034	56.2	41.3	56.6	61.6	65.7	37.3	43.8
A74-205037	51.5	40.9	51.0	66.5	64.7	35.8	41.0
A74-302012	63.6	39.2	63.0	69.6	69.1	32.9	40.0
C1522	51.9	50.7	62.2	61.6	54.8	29.8	38.6
C1523	59.4	50.5	63.2	59.7	52.6	26.9	45.2
C1524	52.9	43.4	61.9	64.3	53.0	32.1	40.8
C1530	50.7	41.6	51.5	57.7	52.5	33.4	37.8
L69D100-16-2	55.4	39.8	61.5	68.3	70.2	34.0	43.4
L69D100-16-5	50.8	43.1	57.7	60.9	62.1	36.3	38.3
L69U2325-1-1	52.7	33.6	58.1	70.8		35.4	42.5
L70D9-4-5	56.3	35.0	58.4	65.0	65.1	35.9	40.3
L71D52-1	52.5	46.6	58.7	62.4		30.8	41.4
L73D-78	53.5	43.2	57.0	62.5	65.4	35.2	37.8
L73D-195	59.6	42.4	65.8	63.8	65.1	36.3	41.6
L73D-253	55.7	36.2	58.5	61.6		37.3	43.8
L73D-26	50.2	37.4	49.4	59.9	48.9	32.7	35.6
L73D-296	49.5	32.5	58.0	67.7	64.0	34.8	44.8
L73D-308	55.3	47.3	57.5	55.3	58.1	37.9	40.6
L73U-16	57.5	23.6	45.7	64.7	55.4	32.3	37.4
U10124	43.5	29.5	59.3	65.2	56.4	33.1	43.8
U10150	48.5	37.2	50.6	62.6	55.5	31.0	38.0
U10816	48.8	31.8	53.5	58.0	57.8	29.8	40.2
U10913	54.9	40.8	55.0	60.3	54.7	29.2	35.8
C.V. (%)	9.5	17.2	9.1	7.4	5.2	8.2	7.6
L.S.D. (5%)	NS	14.0	10.4	9.4	6.4	4.5	6.3
Row Sp. (in.)	30	30	30	27	27	30	30
Rows/Plot	3	1	4	4	4	2	4
Reps.	2	2	2	2	2	3	2

* Not included in the Mean.

Strain	N.J.		Ont.	Ohio	Mich.	Ind.	Wisc.	Ill.	Iowa		S.D.	Neb.
	Adel- Mean	phia	Harr.	Hoyt- ville	Dun- dee	Lafay- ette	ling- ton	Ur- bana	Ames	Sloan	Center- ville	Mead I
	10 Tests											
	YIELD RANK											
	*											
Beeson	4	2	8	25	16	13	9	4	4	18	32	23
Corsoy	34	20	27	29	33	34	4	28	36	20	31	5
A74-201026	12	6	13	30	11	23	9	26	16	13	14	13
A74-202001	24	23	24	21	35	14	22	20	8	6	17	11
A74-202019	20	7	23	18	25	30	7	14	31	17	21	30
A74-202036	14	16	5	4	28	15	27	7	26	3	8	26
A74-203001	11	4	31	36	3	5	33	9	6	5	4	1
A74-203002	3	13	20	14	7	8	1	25	10	1	13	3
A74-203006	25	17	2	12	32	34	5	36	18	8	29	14
A74-203012	28	9	16	35	4	33	11	35	35	15	16	2
A74-204012	27	23	30	32	26	16	23	16	30	21	23	25
A74-204023	33	34	33	6	13	27	35	29	13	13	5	36
A74-204033	21	28	3	7	15	18	30	18	17	22	27	18
A74-204034	7	5	6	22	31	7	17	23	22	7	2	7
A74-205037	22	13	34	13	24	24	18	31	7	12	10	17
A74-302012	1	1	10	17	1	1	21	3	2	3	21	24
C1522	16	15	22	19	30	22	2	5	22	28	34	27
C1523	5	3	19	34	4	3	3	2	29	31	36	4
C1524	8	18	20	14	12	19	12	6	14	30	26	18
C1530	26	7	29	26	22	26	16	30	33	32	19	31
L69D100-16-2	6	33	1	10	18	10	20	8	3	2	18	10
L69D100-16-5	16	12	25	8	23	25	14	19	25	18	5	29
L69U2325-1-1	9	27	15	10	9	20	29	15	1		11	12
L70D9-4-5	19	22	28	9	27	6	27	13	11	10	9	21
L71D52-1	18	26	32	5	14	21	8	11	21		30	16
L73D-78	22	25	36	3	16	17	13	22	20	9	12	31
L73D-195	2	11	7	24	2	2	15	1	15	10	5	15
L73D-253	9	31	26	2	6	9	26	12	22		2	7
L73D-261	35	36	17	31	8	28	24	33	28	33	24	35
L73D-296	14	20	13	1	18	29	31	16	5	16	15	5
L73D-308	13	19	9	16	29	11	6	20	34	23	1	20
L73U-163	36	30	35	22	34	4	36	34	12	27	25	33
U10124	28	35	12	20	21	36	34	10	9	25	20	7
U10150	32	10	10	28	36	32	25	32	19	26	28	28
U10816	31	29	4	27	10	31	32	27	32	24	33	22
U10913	30	32	18	33	20	12	19	24	27	29	35	34

PRELIMINARY TEST II, 1975

Strain	N.J.		Ont.	Ohio	Mich.	Ind.	Wisc.	Ill.	Iowa		S.D.	Neb.
	Adel- Mean	phia	Harr.	Hoyt- ville	Dun- des	Lafay- ette	ling- ton	Ur- bana	Ames	Sloan	Center- ville	Mead I
	10 Tests		MATURITY (relative date)									*
Beeson	+5.1	+4	+7	+3	+5	+6	+2	+8	+10		+3	+3
Corsoy	9-17.6	9-15	9-20	9-28	9-18	9-4	10-3	9-3	9-9		10-2	9-14
A74-201026	+3.6	+1	+6	-1	+2	+6	0	+8	+9		+3	+2
A74-202001	+3.1	+2	+8	-2	+3	+6	0	+5	+7		+2	0
A74-202019	+1.3	-2	-2	+2	+2	+3	-1	+3	+9		+1	-2
A74-202036	+4.7	+2	+8	+2	+5	+8	0	+10	+7		+3	+2
A74-203001	+4.7	+2	+4	+2	+3	+4	+2	+9	+11		+4	+6
A74-203002	+3.4	+3	+4	-1	+1	+4	+1	+7	+9		+2	+4
A74-203006	+3.5	+3	+6	-1	0	+6	-2	+7	+9		+3	+4
A74-203012	+2.5	0	+4	+3	-1	+3	0	+5	+4		+1	+6
A74-204012	+6.4	+8	+7	+3	+5	+13	+2	+5	+11		+4	+6
A74-204023	+5.7	+5	+8	-2	+4	+9	+2	+10	+12		+4	+5
A74-204033	+1.4	-3	-1	-2	+1	+2	-1	+12	+5		+1	0
A74-204034	+1.4	+1	+2	-1	0	+2	-2	+4	+7		+2	-1
A74-205037	+4.3	+1	+10	-1	+3	+4	+2	+9	+9		+4	+2
A74-302012	+7.4	+4	+9	+3	+5	+10	+1	+11	+16		+7	+8
C1522	+3.1	-2	+4	+1	+3	+8	-2	+6	+7		+2	+4
C1523	+2.9	+1	+5	0	+3	+5	-1	+7	+5		+3	+1
C1524	+4.4	-1	+8	+2	+3	+4	+2	+6	+11		+4	+5
C1530	+1.7	-1	+5	0	+1	+2	0	+5	+3		+2	0
L69D100-16-2	+7.1	+5	+15	+1	+5	+8	+3	+11	+15		+3	+5
L69D100-16-5	+4.3	+2	+8	+1	+2	+3	+2	+7	+11		+3	+4
L69U2325-1-1	+6.3	+1	+10	+1	+5	+8	+2	+12	+15		+4	+5
L70D9-4-5	+6.7	+6	+12	+2	+5	+10	+2	+10	+11		+4	+5
L71D52-1	+2.0	-4	+1	+2	0	+3	-2	+6	+8		+4	+2
L73D-78	+3.2	-2	+2	+3	+1	+6	+2	+6	+7		+2	+5
L73D-195	+5.6	+4	+10	-1	+3	+8	+2	+9	+13		+4	+4
L73D-253	+2.5	-4	0	-2	+2	+4	0	+5	+11		+3	+6
L73D-261	+2.6	-1	+4	-2	+2	+3	0	+5	+9		+4	+2
L73D-296	+5.9	+3	+9	+3	+3	+8	+2	+10	+13		+3	+5
L73D-308	+1.7	-2	+4	0	+2	+3	0	+5	+3		+2	0
L73U-163	+10.5	+9	+16	0	+5	+9	+3	+17	+21		+7	+8
U10124	+6.9	0	+13	+3	+5	+9	+2	+13	+13		+4	+7
U10150	+4.7	+3	+7	-1	+3	+6	+1	+11	+11		+3	+3
U10816	+5.7	+1	+8	-1	+4	+10	+2	+14	+11		+3	+5
U10913	+4.2	-2	+8	-2	+4	+8	0	+10	+11		+1	+4
Hodgson (I)	-7.2		-10	-13	-8	-10	-8	-9	-5		-2	0
Woodworth (III)	+13.7	+12	+15			+10		+24	+16		+11	+8
Date plntd.	5-19	5-29	5-28	5-19	5-22	5-7	5-22	5-14	5-12	5-19	5-21	5-16

Strain	Parentage	Previous Testing *	Line
1. Calland	C1523 (Blackhawk x Harosoy) x Kent	8	F7
2. Williams	Wayne x L57-0034 (Clark x Adams)	6	F6
3. L21	Williams ⁷ x SL11 (Wayne-Rpm Rps)	-	F3
4. Woodworth	Wayne x L57-0034 (Clark x Adams)	5	F6
5. A73-314	Amsoy x [Provar x (Magna x Disoy)]	PIII	F5
6. A73-12013	L66L-144 (Wayne x L57-0034) x Dunn	PIII	F4
7. A73-23066	IVR Ex4428 x Md66-1258 (2nd cycle intermates)	PIII	"
8. L69U19-16-2	L15 (Wayne-Rps) x Beeson	PIII	F5
9. L69U37-17-5	Calland x Corsoy	PIII	"
10. L69U40-19-1	" x Amsoy	PIII	"
11. L69U72-3-4	Cutler x A100	PIII	"
12. L70D6-11-5	L63-1212 (Harosoy-1n) x C1426 (C1253 x Kent)	PIII	"
13. L70T-543G	L15 (Wayne-Rps) x Amsoy 71	1	"

* Number of years in test or name of 1974 test.

The 6-year Central mean shows that Woodworth and Williams are similar in yield and superior to Calland. Woodworth is 3.6 days earlier than Williams, and in other characteristics these two varieties are very similar.

In the 2-year Central mean, L70T-543G matures 4 days earlier than Woodworth but is 1 bushel lower yielding.

In the 1975 Central mean, none of the strains yield more than Williams, the highest yielding check variety. The 3 A strains which are 6-7 days earlier than Woodworth may really belong in Uniform Test II, the strain L21 (BC Williams with resistance to downy mildew and phytophthora) yields the same as Williams but matures 2 days later. The strain L69U40-19-1 is phytophthora root rot resistant and where phytophthora was a factor it was noticeably superior in yield and matures 3 days earlier than Williams.

The 2-year and 3-year East Coast means show Williams with a yield advantage of 2 bushels over the other check varieties and the strain L70T-543G.

The 1975 East Coast mean results show no entries with any distinct advantage over the check varieties.

UNIFORM TEST III, 1975

Disease Data

Strain	BB	BP	BS	DM	FE ₂	BSR			PSB	PS	SMV	PR		
	Urb	Urb	Laf	Sull	Laf	Laf	Ames		Laf	Laf	Laf	Laf	Ames	Vickery
	IL	IL	IN	IN	IN	IN	n %	n %	IN	IN	IN	IN	IA	OH
	n	a	n	n	a	n%	stem	plants	d%	a	n seed	a	a	n
Calland	3	3	4	3	4	70	74	100	32	5	5E	R	H	3.5
Williams	1	1	3	4	3	70	57	88	24	5	4E	S	S	3.5
L21	1	2	2	2	4	90	57	95	35	5	4E	R	R	4.0
Woodworth	1	1	3	5	4	90	65	90	36	5	4E	S	S	3.5
A73-314	1	3	3	4	5	80	67	75	47	5	4E	S	S	5.0
A73-12013	1	2	3	4	3	100	70	100	52	5	5E	S	S	4.5
A73-23066	1	3	4	4	4	50	73	100	59	5	5E	S	S	4.0
L69U19-16-2	1	1	4	3	1	100	66	95	20	5	3M	R	R	4.5
L69U37-17-5	1	4	4	4	5	100	73	100	51	5	3M	S	S	4.0
L69U40-19-1	1	4	5	3	4	90	65	100	41	5	5S	R	H	2.5
L69U72-3-4	1	3	2	4	5	100	71	100	28	4	4E	S	S	4.0
L70D6-11-5	2	4	3	4	5	70	70	100	45	5	5E	R	R	4.0
L70T-543G	2	1	4	5	5	70	72	100	47	5	4E	R	R	4.0

Descriptive and Other Data

Strain	Descriptive Code	Chlorosis			Fluorescent Light	Hypocotyl	Shattering			
		Crkstn. Minn.	Lamb. Minn.	Ames Iowa			Perox- idase	Man. Kan.	Lubb. Tex.	
Calland	PTNBr	DYB1	1.0	1.5	4	L	1	L	4	3
Williams	WTNTn	SYB1	1.0	2.0	4	L	4	H	2	2
L21	WTNTn	SYB1	1.0	2.0	5	L	4	H	2	2
Woodworth	WTNTn	DYB1	1.0	1.5	4	L	5	L	4	2
A73-314	PGNBr	SYBf+Y	1.0	1.0	3	L	5	H	5	5
A73-12013	PG+TNBr	DYB1	1.0	1.0	4	L	1	L	5	5
A73-23066	PGNTn	DYY	1.0	2.0	4	L	4	H	2	2
L69U19-16-2	WGNBr	SYBf	1.0	3.5	4	L	2	L	2	4
L69U37-17-5	PGNBr	DYBf	1.0	1.5	5	E	1	H	3	2
L69U40-19-1	PTNTn	DYG	2.0	2.5	5	L	4	H	4	2
L69U72-3-4	PTNBr	SYB1	1.0	1.0	4	L	5	L	2	2
L70D6-11-5	PGNTn	SYBf	1.0	2.0	3	L	3	H	5	4
L70T-543G	WGNBr	SYBf	1.5	2.5	4	L	1	L	5	2

Regional Summary

Strain	Yield	Rank	Matu- rity	Lodg- ing	Height	Seed Qual.	Seed Size	Seed Comp. Protein Oil	
<u>1975, CENTRAL</u>									
No. of Tests	23	23	19	22	23	21	20	12	12
Calland	47.6	5	+0.5	1.8	38	2.2	18.1	39.9	20.6
Williams	49.6	1	+4.4	1.5	36	1.5	17.5	40.9	21.8
L21	49.2	2	+6.5	2.0	40	1.7	18.9	41.6	21.2
Woodworth	47.4	6	9-22.0†	1.7	36	1.8	15.7	40.2	21.9
A73-314	39.0	13	-5.8	1.4	32	2.7	19.5	39.6	22.6
A73-12013	43.2	10	-6.1	1.6	33	2.0	17.1	39.9	22.4
A73-23066	42.9	12	-6.7	2.1	33	2.2	16.4	39.7	21.8
L69U19-16-2	47.4	6	+3.1	1.5	36	2.4	19.0	40.7	21.1
L69U37-17-5	48.0	3	+1.6	2.1	37	2.7	18.2	39.6	21.4
L69U40-19-1	47.9	4	+1.1	1.8	40	2.3	18.1	40.3	20.8
L69U72-3-4	46.5	8	+0.7	1.7	35	1.9	18.7	41.1	21.4
L70D6-11-5	43.0	11	-4.0	1.3	35	2.2	19.0	40.9	21.8
L70T-543G	44.1	9	-5.1	2.0	38	2.4	18.4	40.2	22.6

† 128 days after planting

1974-75, 2-YEAR MEAN, CENTRAL

No. of Tests	46	46	39	46	47	44	41	25	25
Calland	42.8	3	+1.8	2.0	36	2.1	18.2	40.4	20.0
Williams	44.6	1	+4.2	1.6	36	1.6	17.5	41.1	20.9
Woodworth	43.6	2	9-26.8†	1.8	35	1.8	15.8	40.3	21.2
L70T-543G	42.3	4	-4.0	2.2	37	2.2	18.4	40.2	21.8

† 126 days after planting

1970-75, 6-YEAR MEAN, CENTRAL

No. of Tests	132	132	112	128	131	126	112	75	75
Calland	44.4	3	+1.7	2.1	40	2.2	17.8	40.1	20.8
Williams	46.2	1	+3.6	1.8	39	1.8	17.5	40.7	22.0
Woodworth	45.8	2	9-24.3†	1.8	38	1.9	15.4	39.9	22.0

† 124 days after planting

UNIFORM TEST III, 1975

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Height	Seed Qual.	Seed size	Seed Composition	
								Protein	Oil
<u>1975, EAST COAST</u>									
No. of Tests	5	5	5	5	5	5	4	2	2
Calland	49.2	6	+2.2	3.0	42	2.8	20.6	42.5	18.8
Williams	51.6	1	+3.4	2.5	39	2.2	20.2	41.6	21.0
L21	51.0	2	+6.2	2.8	43	2.4	21.7	42.5	19.7
Woodworth	46.4	8	9-24.4†	2.6	39	2.6	18.0	42.2	20.4
A73-314	43.8	12	-4.0	2.3	36	3.0	21.5	40.6	21.3
A73-12013	45.3	9	-3.4	2.8	38	2.9	19.6	41.0	21.4
A73-23066	41.2	13	-3.0	3.2	37	2.9	18.6	41.5	20.3
L69U19-16-2	49.4	5	+2.6	2.4	41	3.1	20.2	41.8	19.7
L69U37-17-5	49.5	4	+3.0	3.2	41	3.2	19.3	40.6	20.0
L69U40-19-1	50.2	3	+2.8	3.0	43	2.7	20.0	41.0	20.4
L69U72-3-4	44.4	11	+2.4	2.5	38	2.3	20.6	41.8	20.0
L70D6-11-5	45.1	10	-2.6	2.2	41	3.1	21.2	42.2	20.2
L70T-543G	47.1	7	-4.0	2.8	43	3.1	20.4	40.5	22.1

†116 days after planting

<u>1974-75, 2-YEAR MEAN, EAST COAST</u>									
No. of Tests	9	9	8	9	9	9	8	4	4
Calland	47.6	4	+1.9	2.8	40	2.7	21.1	42.6	19.2
Williams	50.2	1	+2.5	2.2	38	2.1	20.9	42.3	21.3
Woodworth	48.5	2	9-27.6†	2.4	37	2.6	18.4	42.0	20.5
L70T-543G	48.4	3	-2.4	2.6	41	2.9	21.4	41.3	22.2

† 119 days after planting

<u>1973-75, 3-YEAR MEAN, EAST COAST</u>									
No. of Tests	14	14	13	14	14	14	13	6	6
Calland	45.9	3	+1.7	2.6	39	2.7	19.5	42.1	19.7
Williams	48.0	1	+2.5	2.0	37	2.1	19.5	42.4	21.4
Woodworth	46.7	2	9-26.0†	2.1	37	2.4	17.1	41.5	20.9

† 115 days after planting

Strain	East	Pa.	NJ	Del.	Maryland		Central	Ohio			
	Coast Mean	Landis- ville	Adel- phia	George- town	Clarks- ville	Queens- town	Mean	Hoyts- ville	Woo- ster	Colum- bus	
	5 Tests	1975 YIELD (bu/a)					23 Tests	1975 YIELD(bu/a)			
Calland	49.2	51.8	43.7	51.3	59.6	39.5	47.6	58.9	29.8	36.5	
Williams	51.6	55.4	42.8	55.1	56.3	48.6	49.6	62.4	27.3	37.1	
L21	51.0	49.7	41.6	57.6	60.0	46.0	49.2	53.3	30.5	39.8	
Woodworth	46.4	49.8	36.7	54.3	50.6	40.6	47.4	55.2	38.7	27.1	
A73-314	43.8	50.9	40.6	32.6	51.3	43.6	39.0	46.0	24.3	23.7	
A73-12013	45.3	48.5	39.5	47.2	51.4	40.1	43.2	53.3	26.3	26.7	
A73-23066	41.2	53.4	33.4	34.0	49.0	36.4	42.9	38.9	18.0	30.8	
I69U19-16-2	49.4	55.5	37.8	53.4	52.0	48.4	47.4	51.0	26.3	23.2	
I69U37-17-5	49.5	54.4	44.2	47.4	55.8	45.7	48.0	45.3	22.4	34.0	
I69U40-19-1	50.2	46.3	44.0	56.0	57.2	47.3	47.9	45.6	29.1	26.8	
I69U72-3-4	44.4	47.6	41.2	50.0	44.8	38.5	46.5	57.9	27.3	27.7	
L70D6-11-5	45.1	46.1	38.9	46.1	54.0	40.6	43.0	44.7	19.6	25.6	
L70T-543G	47.1	50.6	40.0	46.4	53.3	45.2	44.1	39.2	32.9	25.0	
C.V. (%)		8.9	13.9	14.2	6.2	6.7					
L.S.D. (5%)		6.3	10.7	9.2	5.6	4.9					
Row sp. (in.)		30	30	30	30	30		32	32	28	
Rows/Plot		3	3	3	4	4		3	3	3	
Reps.		4	4	3	3	3		4	4	4	
		<u>YIELD RANK</u>						<u>YIELD RANK</u>			
Calland	6	5	3	6	2	11	5	2	4	3	
Williams	1	2	4	3	4	1	1	1	6	2	
L21	2	9	5	1	1	4	2	5	3	1	
Woodworth	8	8	12	4	11	9	6	4	1	7	
A73-314	12	6	7	13	10	7	13	8	10	12	
A73-12013	9	10	9	9	9	10	10	5	8	9	
A73-23066	13	4	13	12	12	13	12	13	13	5	
I69U19-16-2	5	1	11	5	8	2	6	7	8	13	
I69U37-17-5	4	3	1	8	5	5	3	10	11	4	
I69U40-19-1	3	12	2	2	3	3	4	9	5	8	
I69U72-3-4	11	11	6	7	13	12	8	3	6	6	
L70D6-11-5	10	13	10	11	6	8	11	11	12	10	
L70T-543G	7	7	8	10	7	6	9	12	2	11	
	28 Tests	<u>1970-75, 6-YEAR MEAN YIELD</u>						<u>1970-75, 6-YEAR MEAN YIELD</u>			
Calland	44.0	47.7	39.2				44.4	31.6	35.9	46.2	
Williams	44.8	48.2	39.4				46.2	36.5	35.7	47.4	
Woodworth	42.7	48.1	36.2				45.7	33.2	40.5	41.8	
		<u>YIELD RANK</u>						<u>YIELD RANK</u>			
Calland	2	3	2				3	3	2	2	
Williams	1	1	1				1	1	3	1	
Woodworth	3	2	3				2	2	1	3	

* Not included in the mean

UNIFORM TEST III, 1975

Strain	Indiana					Ky.	Illinois		
	Bluff- ton	Lafay- ette	Green- field	Sulli- van	Evans- ville	Hender- son	Ur- bana	Girard	Browns- town
<u>1975 YIELD (bu/a)</u>									
Calland	59.5	57.4	48.2	35.5	53.3	58.1	57.2	41.8	37.5
Williams	52.3	59.2	47.9	36.9	76.5	58.1	56.8	50.5	39.5
L21	59.6	57.4	50.3	39.7	64.0	50.8	54.3	51.0	44.1
Woodworth	51.9	58.2	44.9	36.3	68.7	45.9	55.9	46.9	42.0
A73-314	8.1	57.0	43.6	13.8	52.0	45.4	49.3	34.7	43.5
A73-12013	37.2	54.3	38.6	27.3	65.1	51.2	59.7	45.6	40.9
A73-23066	38.5	52.7	45.4	22.9	50.6	46.3	53.2	47.5	45.2
L69U19-16-2	58.1	58.5	48.7	34.3	66.5	54.0	64.5	49.9	43.8
L69U37-17-5	56.4	59.5	49.6	29.2	75.4	50.9	51.4	52.3	42.6
L69U40-19-1	65.2	62.5	50.6	35.6	79.1	56.1	62.0	44.6	39.5
L69U72-3-4	59.7	53.0	47.4	38.4	79.7	46.3	56.7	42.4	43.0
L70D6-11-5	50.3	56.1	40.5	21.1	61.1	49.2	56.4	45.2	45.8
L70T-543G	59.1	52.3	49.9	21.1	62.7	46.3	57.6	44.8	43.0
C.V. (%)	13.2	4.4	8.4	15.5	17.0	13.6	6.1	5.4	9.5
L.S.D. (5%)	11.2	4.2	6.6	7.9	18.8	9.9	5.8	4.2	8.7
Row sp. (in.)	30	30	30	30	30	26	30	36	30
Rows/Plot	3	3	3	3	3	3	4	4	4
Reps.	3	3	3	3	3	4	3	3	2
<u>YIELD RANK</u>									
Calland	4	6	6	6	11	1	5	12	13
Williams	8	3	7	3	3	1	6	3	11
L21	3	6	2	1	8	7	10	2	3
Woodworth	9	5	10	4	5	12	9	6	9
A73-314	13	8	11	13	12	13	13	13	5
A73-12013	12	10	13	9	7	5	3	7	10
A73-23066	11	12	9	10	13	9	11	5	2
L69U19-16-2	6	4	5	7	6	4	1	4	4
L69U37-17-5	7	2	4	8	4	6	12	1	8
L69U40-19-1	1	1	1	5	2	3	2	10	11
L69U72-3-4	2	11	8	2	1	9	7	11	6
L70D6-11-5	10	9	12	11	10	8	8	8	1
L70T-543G	5	13	3	11	9	9	4	9	6
<u>1970-75, 6-YEAR MEAN YIELD</u>									
Calland	50.5	46.3	44.4		44.8	55.4	51.4	43.4	
Williams	50.0	50.6	41.7		49.6	54.3	53.6	49.0	
Woodworth	50.0	51.0	41.3		45.1	51.7	53.9	47.4	
<u>YIELD RANK</u>									
Calland	1	3	1		3	1	3	3	
Williams	2	2	2		1	2	2	1	
Woodworth	2	1	3		2	3	1	2	

Illinois			Iowa		Missouri		SD.	Neb.	Kansas	
Belle-ville	Eldo-rado	Carbon-dale	Stuart	Ottum-wa	Edina	Apple-ton	Elk PointI	Mead I	Manhat-tan I	Powhat-tan
<u>1975 YIELD (bu/a)</u>										
58.5	47.6	55.7	50.8	49.6	42.9	36.9	31.1	41.4	74.8	31.9
57.1	55.3	58.2	52.9	50.0	44.4	36.1	30.0	43.4	75.2	32.9
61.3	60.6	56.9	52.8	48.2	43.9	37.7	28.7	44.6	70.6	32.3
60.3	47.1	59.5	52.3	44.0	39.5	34.4	34.6	46.1	71.6	28.1
59.6	37.9	55.5	49.9	29.0	35.0	22.4	38.0	46.5	72.1	9.1
55.6	36.4	57.3	49.5	43.4	30.6	20.9	38.4	46.0	69.8	18.9
59.8	42.5	57.4	50.7	36.6	35.2	24.3	45.5	49.8	69.5	25.2
60.7	49.0	58.2	51.7	46.2	36.4	35.5	28.4	46.5	68.2	29.5
67.2	54.4	59.0	50.9	42.5	41.4	31.0	37.2	47.9	73.9	30.7
62.6	44.7	54.4	51.2	44.8	38.7	33.0	28.6	41.1	73.9	32.0
56.0	50.6	54.6	49.8	43.8	43.2	27.5	31.5	40.9	61.4	31.2
57.4	42.5	55.9	45.3	32.0	33.8	23.2	37.3	48.1	70.5	27.5
50.9	34.0	52.2	50.5	41.6	32.1	26.0	40.6	51.3	71.9	29.8
7.0	7.1		6.5	9.4	9.0	9.0	8.0	6.3	4.6	9.1
7.0	5.5		4.5	5.8	5.6	4.7	4.6	5.0	5.5	4.2
30	30	30	27	27	30	30	30	30	30	30
4	4	4	4	4	2	2	2	4	4	4
3	3	3	4	4	4	4	4	3	3	3
<u>YIELD RANK</u>										
8	6	9	7	2	4	2	9	11	2	4
10	2	3	1	1	1	3	10	10	1	1
3	1	7	2	3	2	1	11	9	8	2
5	7	1	3	6	6	5	7	7	7	9
7	11	10	10	13	10	11	4	5	5	13
12	12	6	12	8	13	12	3	8	10	12
6	9	5	8	11	9	10	1	2	11	11
4	5	4	4	4	8	4	13	5	12	8
1	3	2	6	9	5	7	6	4	3	6
2	8	12	5	5	7	6	12	12	3	3
11	4	11	11	7	3	8	8	13	13	5
9	9	8	13	12	11	11	5	3	9	10
13	13	13	9	10	12	9	2	1	6	7
<u>1970-75, 6-YEAR MEAN YIELD</u>										
49.8	48.7	43.7	39.1	45.7			32.4	43.5	65.8	38.2
52.2	51.1	46.3	41.8	48.6			30.2	42.3	66.2	40.7
52.0	46.4	42.5	42.1	47.8			35.5	46.0	65.8	38.3
<u>YIELD RANK</u>										
3	3	2	3	3			2	2	2	3
1	2	1	2	1			3	3	1	1
2	1	3	1	2			1	1	2	2

UNIFORM TEST III, 1975

Strain	East	Pa.	N.J.	Del.	Maryland		Central	Ohio				
	Coast Mean	Landis- ville	Adel- phia	George- town	Clarks- I	Queens- ville	Mean	Hoyts- ville	Woo- ster	Colum- bus		
	5 Tests	MATURITY (relative date)						19 Test	MATURITY (relative date)			
Calland	+2.2	+1	0	+4	+6	0	+0.5	+3	+4	-1		
Williams	+3.4	+2	+2	+7	+3	+3	+4.4	+4	+4	-2		
L21	+6.2	+5	+5	+12	+6	+3	+6.5	+7	+6	-1		
Woodworth ⁺	9-24.4	10-2	9-27	9-15	10-3	9-15	9-22.0	10-3	9-24	10-4		
A73-314	-4.0	-5	-9	0	0	-6	-5.8	-2	-1	+1		
A73-12013	-3.4	-5	-6	+1	-3	-4	-6.1	-2	-1	-4		
A73-23066	-3.0	-3	-6	0	-1	-5	-6.7	-2	-1	-3		
L69U19-16-2	+2.6	+4	-1	+7	+2	+1	+3.1	+2	+3	+2		
L69U37-17-5	+3.0	+4	+1	+7	+5	-2	+1.6	+3	+6	-3		
L69U40-19-1	+2.8	+2	+2	+4	+6	0	+1.1	+3	+1	+1		
L69U72-3-4	+2.4	+1	-1	+6	+6	0	+0.7	+1	+1	+1		
L70D6-11-5	-2.6	-3	-5	0	+1	-6	-4.0	+3	+2	-1		
L70T-543G	-4.0	-3	-9	0	-2	-6	-5.1	0	-1	0		
Beeson (II)		-10	-12		-4			-7	+5	-9		
Cutler 71 (IV)		+5		+7	+11	+3				+16		
Date plntd.	5-31	5-29	5-29	5-27	6-11	5-27	5-17	5-19	5-14	5-15		
+Dys. to mat.	116	126	121	111	114	111	128	137	133	142		
	5 Tests	LODGING (score)						22 Tests	LODGING (score)			
Calland	3.0	2.8	3.0	3.0	2.8	3.5	1.8	2.0	1.5	1.0		
Williams	2.5	1.9	3.1	2.0	2.7	2.8	1.5	1.5	1.0	1.0		
L21	2.8	2.2	3.1	2.3	3.0	3.2	2.0	2.7	1.5	1.0		
Woodworth	2.6	2.5	3.3	2.2	2.2	2.8	1.7	2.5	1.0	1.0		
A73-314	2.3	2.0	3.6	1.7	1.5	2.8	1.4	1.5	1.0	1.0		
A73-12013	2.8	2.6	3.4	2.5	2.2	3.3	1.6	1.0	1.0	1.0		
A73-23066	3.2	3.5	3.8	2.7	2.5	3.7	2.1	2.0	1.0	1.0		
L69U19-16-2	2.4	1.8	3.3	2.0	2.0	3.0	1.5	1.5	1.0	1.0		
L69U37-17-5	3.2	3.4	3.3	2.3	3.3	3.7	2.1	3.0	1.0	1.0		
L69U40-19-1	3.0	2.9	3.5	2.5	2.8	3.5	1.8	2.0	1.0	1.0		
L69U72-3-4	2.5	2.5	2.8	2.0	2.2	3.0	1.7	2.5	1.5	1.0		
L70D6-11-5	2.2	2.1	2.5	2.3	1.5	2.5	1.3	1.0	1.0	1.0		
L70T-543G	2.8	3.0	2.8	2.3	2.5	3.3	2.0	1.5	1.5	1.0		

Indiana			Ky.			Illinois				
Bluff- ton	Lafay- ette	Green- field	Sulli- van	Evans- ville	Hender- son	Urbana	Girard	Browns- town	Belle- ville	Eldo- rado
<u>MATURITY (relative date)</u>										
+1	-1	+5	-1	-1		-4	-1	-6	-1	-1
0	+5	+7	+5	+5		+4	+10	+2	+4	+4
+3	+8	+8	+5	+6		+4	+13	+10	+8	+12
10-1	9-17	9-20	9-24	9-11		9-27	9-8	9-10	9-17	9-8
-11	-6	-3	-13	-6		-14	-8	-10	-6	-11
-7	-7	-5	-11	-7		-9	-7	-9	-8	-11
-6	-6	-8	-17	-8		-14	-8	-9	-7	-9
+4	+7	+7	+2	+6		+1	+5	-3	+2	+1
+5	+2	+7	-5	+6		-6	+3	-5	+1	0
0	0	+5	-1	0		-4	-1	-3	+1	-1
+2	-3	+5	-2	-2		-2	+2	-3	-3	-2
+7	-2	+1	-15	-3		-11	-6	-12	-7	-8
+4	-5	-4	-20	-6		-12	-7	-8	-3	-12
-3	-7	-7				-15	-12	-13	-13	-16
	+12		+7	+13			+16	+9	+7	+8
5-13	5-7	5-21	5-19	5-20		5-16	5-16	5-21	5-20	5-18
141	133	122	128	114		134	115	112	120	113
<u>LODGING (score)</u>										
2.0	2.0	1.2	1.2	3.3	2.9	2.6	1.9	2.0	1.8	2.1
1.0	2.0	1.0	1.2	2.7	2.4	1.8	1.4	1.5	1.4	1.6
1.7	2.5	1.3	1.5	3.8	3.9	3.1	2.3	1.9	1.7	2.4
1.7	1.8	1.2	1.2	2.8	2.8	2.7	1.6	1.6	1.6	1.7
1.0	1.5	1.0	1.0	3.3	3.0	1.5	1.0	1.1	1.3	1.2
1.5	1.7	1.0	1.0	3.3	2.5	2.8	1.5	1.4	1.5	1.3
1.5	1.8	1.2	1.0	4.2	4.8	3.1	2.0	2.3	2.3	2.0
1.2	1.7	1.0	1.0	3.5	2.6	2.0	1.6	1.3	1.6	2.0
2.0	2.0	1.2	1.0	3.8	3.9	3.2	2.6	3.0	1.7	2.1
1.5	2.7	1.0	1.2	3.7	3.3	2.4	1.9	2.0	1.7	1.7
1.5	1.7	1.3	1.0	3.2	2.8	1.9	1.8	1.4	1.5	1.9
1.0	1.0	1.0	1.0	3.0	2.8	2.5	1.2	1.2	1.1	1.2
2.7	2.2	1.2	1.0	3.5	3.3	2.9	2.3	2.8	1.8	1.9

Strain	<u>Ill.</u>	<u>Iowa</u>		<u>Missouri</u>		<u>S. D.</u>	<u>Neb.</u>	<u>Kansas</u>	
	Carbon- dale	Stuart	Ottumwa	Edina	Apple- ton	Flk PointI	Mead I	Manhat- tan ^I	Powhat- tan
<u>MATURITY (relative date)</u>									
Calland	+4	+2	*	*	*	+3	+3	+1	0
Williams	+8	+5				+6	+6	+4	+2
L21	+9	+6				+6	+6	+4	+1
Woodworth †	9-19	9-29				10-8	9-28	9-20	9-20
A73-314	+3	+1				-3	-2	-10	-10
A73-12013	-4	-3				-5	-3	-6	-6
A73-23066	+1	-4				-5	-4	-10	-8
L69U19-16-2	+6	+3				+2	+5	+5	+3
L69U37-17-5	+7	+3				+1	+2	+2	+1
L69U40-19-1	+6	+4				+6	+6	+1	-4
L69U72-3-4	+3	+1				+4	+3	+5	+2
L70D6-11-5	+3	-1				-5	-3	-8	-10
L70T-543G	0	-1				-3	-4	-6	-8
Beeson (II)		-1				-3	-7		-13
Cutler 71 (IV)	+9	+6					+8	+12	+7
Date planted	6-4	5-17	5-15	5-23	5-15	5-19	5-16	5-6	5-15
†Dys. to maturity	107	135				149	135	137	128
<u>LODGING (score)</u>									
Calland	3.0	1.5	1.4	1.3	1.6		1.3	2.1	1.0
Williams	3.0	1.3	1.2	1.1	1.1		1.3	2.3	1.0
L21	3.0	1.5	1.4	1.3	1.2		1.3	2.8	1.0
Woodworth	3.0	1.5	1.2	1.1	1.6		2.2	2.3	1.0
A73-314	1.0	1.3	1.2	1.2	1.0		1.0	2.3	1.0
A73-12013	3.0	1.4	1.3	1.2	1.2		1.0	2.3	1.0
A73-23066	4.0	1.7	1.4	1.3	1.1		1.0	3.7	1.0
L69U19-16-2	2.0	1.4	1.2	1.2	1.3		1.0	1.8	1.0
L69U37-17-5	3.0	1.6	1.4	1.8	1.3		1.2	2.5	1.0
L69U40-19-1	2.0	1.6	1.3	1.3	1.3		1.8	2.3	1.0
L69U72-3-4	2.0	1.8	1.4	1.3	1.6		1.1	1.7	1.0
L70D6-11-5	1.0	1.2	1.0	1.2	1.1		1.0	1.3	1.0
L70T-543G	2.0	1.6	1.3	1.8	1.4		1.0	3.4	1.0

Strain	East Pa.	NJ	Del.	Maryland		Central	Ohio			
	Coast	Landis-	Adel-	George-	Clarks-	Queens-	Hoyts-	Woo-	Colum-	
	Mean	ville	phia	town	I ville	town	Mean	ville	ster	bus
	5 Tests	PLANT HEIGHT (inches)					23 Tests	PLANT HEIGHT (inches)		
Calland	42	43	43	39	40	43	38	33	32	28
Williams	39	37	42	38	36	44	36	33	26	22
L21	43	44	43	42	40	48	40	39	30	27
Woodworth	39	40	40	37	36	42	36	37	27	23
A73-314	36	37	39	32	30	42	32	35	24	22
A73-12013	38	40	39	35	34	40	33	30	25	27
A73-23066	37	39	42	33	34	38	33	34	26	23
L69U19-16-2	41	41	46	38	35	45	36	36	27	21
L69U37-17-5	41	43	43	37	39	44	37	38	30	24
L69U40-19-1	43	42	46	41	38	46	40	40	29	29
L69U72-3-4	38	37	40	36	34	41	35	36	28	30
L70D6-11-5	41	44	41	38	38	43	35	36	29	25
L70T-543G	43	48	45	39	39	42	38	38	31	28
	5 Tests	SEED QUALITY (score)					21 Tests	SEED QUALITY (score)		
Calland	2.8	3.1	2.8	2.8	2.2	3.3	2.2	1.0	1.7	1.0
Williams	2.2	2.3	2.0	2.3	2.3	2.0	1.5	1.0	1.2	1.0
L21	2.4	2.6	2.3	2.5	2.7	2.0	1.7	1.5	1.7	1.0
Woodworth	2.6	2.8	2.3	3.3	2.7	2.0	1.8	1.2	2.0	1.0
A73-314	3.0	2.8	2.0	3.5	3.2	3.5	2.7	1.5	2.2	1.3
A73-12013	2.9	2.6	2.0	3.3	3.0	3.5	2.0	1.0	1.7	1.0
A73-23066	2.9	2.5	2.0	3.5	2.8	3.5	2.2	1.7	2.5	1.0
L69U19-16-2	3.1	3.6	2.8	3.0	2.5	3.5	2.4	1.2	2.0	1.0
L69U37-17-5	3.2	3.9	2.0	3.3	3.2	3.5	2.7	1.2	3.0	1.0
L69U40-19-1	2.7	2.8	2.3	2.5	2.7	3.0	2.3	1.0	2.2	1.0
L69U72-3-4	2.3	2.4	1.8	2.3	2.5	2.5	1.9	1.0	1.5	1.0
L70D6-11-5	3.1	3.2	2.5	2.8	3.2	4.0	2.2	1.2	3.2	1.0
L70T-543G	3.1	2.5	2.3	3.3	3.5	4.0	2.4	1.5	2.5	1.3
	4 Tests	SEED SIZE (g/100)				20 Tests	SEED SIZE (g/100)			
Calland	20.6	20.6	20.9	21.7	19.2	18.1	23.3	21.6	20.5	
Williams	20.2	20.3	22.7	19.9	18.0	17.5	20.5	20.8	18.7	
L21	21.7	20.8	24.4	22.4	19.3	18.9	20.5	21.6	20.1	
Woodworth	18.0	18.1	19.3	17.9	16.5	15.7	18.8	17.4	17.9	
A73-314	21.5	19.0	23.9	23.1	20.1	19.5	22.0	23.3	19.2	
A73-12013	19.6	18.9	21.3	19.8	18.4	17.1	21.3	24.0	18.3	
A73-23066	18.6	17.7	19.9	19.2	17.5	16.4	20.8	19.4	17.0	
L69U19-16-2	20.2	20.5	21.6	19.8	19.1	19.0	21.6	21.4	20.2	
L69U37-17-5	19.3	18.8	18.9	20.7	18.7	18.2	22.9	22.7	18.6	
L69U40-19-1	20.0	18.6	21.6	20.1	19.7	18.1	22.0	20.8	19.7	
L69U72-3-4	20.6	20.4	22.7	20.5	18.7	18.7	21.0	21.6	19.8	
L70D6-11-5	21.2	20.6	22.5	21.5	20.0	19.0	23.9	22.6	18.3	
L70T-543G	20.4	19.1	22.5	21.0	19.1	18.4	24.3	20.4	21.3	

Strain	Indiana				Ky.	Illinois			
	Bluff- ton	Lafay- ette	Green- field	Sulli- van	Evans- ville	Hender- son	Urbana	Girard	Browns- town
PLANT HEIGHT (inches)									
Calland	35	38	36	29	43	43	43	43	41
Williams	33	37	35	28	42	44	49	45	41
L21	36	44	39	32	44	43	53	48	44
Woodworth	32	38	34	28	40	38	43	42	38
A73-314	20	36	32	22	34	36	40	34	35
A73-12013	27	36	33	25	39	40	41	41	36
A73-23066	26	36	32	21	36	37	39	40	36
L69U19-16-2	34	40	35	24	41	41	48	44	44
L69U37-17-5	34	38	36	21	43	47	42	43	42
L69U40-19-1	36	42	38	28	42	47	44	49	48
L69U72-3-4	33	39	34	29	40	38	43	38	38
L70D6-11-5	33	39	34	22	39	40	44	44	39
L70T-543G	38	41	38	24	41	43	41	42	40
SEED QUALITY (score)									
Calland	2.0	1.5	1.5	1.5	2.0	2.0	2.5	3.3	4.0
Williams	1.0	1.0	1.0	1.5	2.0	1.0	1.7	1.7	1.8
L21	1.5	1.5	1.0	1.0	2.0	2.0	2.0	2.2	1.5
Woodworth	1.5	1.0	1.0	1.5	3.0	1.0	2.2	1.8	2.3
A73-314	3.0	2.0	1.5	3.0	2.5	3.0	3.2	3.5	3.5
A73-12013	2.0	1.0	1.0	2.5	2.0	2.0	2.3	2.7	3.5
A73-23066	2.5	1.5	1.0	2.0	2.5	2.0	2.2	2.5	3.5
L69U19-16-2	2.5	2.0	1.5	2.0	2.5	3.0	2.8	2.8	3.8
L69U37-17-5	3.5	2.0	1.5	3.5	3.0	2.0	2.8	3.0	3.5
L69U40-19-1	2.0	1.5	1.5	2.5	2.0	2.0	1.8	3.2	3.8
L69U72-3-4	2.0	1.0	1.5	1.5	2.0	2.0	1.5	2.7	3.3
L70D6-11-5	2.0	2.0	1.0	2.0	2.5	2.0	2.2	2.5	3.0
L70T-543G	2.0	2.0	1.0	2.5	2.5	3.0	2.8	2.5	3.0
SEED SIZE (g/100)									
Calland	23.5	16.4	17.1	16.5	19.0	17.1	15.3	14.0	12.6
Williams	19.3	18.4	17.4	15.8	18.2	16.9	17.0	15.8	12.8
L21	22.0	19.6	18.9	18.2	19.8	18.0	17.5	16.0	14.9
Woodworth	18.0	15.6	14.0	15.5	17.8	15.7	14.9	13.2	11.4
A73-314	19.1	22.0	19.1	17.9	20.0	19.0	19.2	15.8	14.1
A73-12013	17.9	17.6	14.5	13.7	18.3	18.4	17.1	12.9	12.4
A73-23066	19.4	16.6	15.7	13.7	17.1	16.4	14.8	13.5	11.7
L69U19-16-2	22.0	18.9	17.7	18.4	20.5	20.1	18.0	15.4	13.2
L69U37-17-5	22.3	16.9	16.9	17.8	18.6	18.4	14.8	14.3	12.7
L69U40-19-1	21.7	17.4	17.5	15.8	19.2	18.5	16.4	14.2	12.3
L69U72-3-4	22.3	18.3	18.5	17.2	20.2	18.6	17.8	14.8	13.7
L70D6-11-5	24.0	19.7	17.3	16.5	19.4	18.8	18.4	16.2	14.4
L70T-543G	23.3	17.9	17.4	14.2	19.8	19.4	17.5	14.5	13.6

Illinois		Iowa		Missouri		S.D.	Mo.	Kansas		
Belle-ville	Eldo-rado	Carbon-dale	Stuart	Ottum-wa	Edina	Apple-ton	Blk Point I	Moed I	Manhat-ten I	Pochat-ton

PLANT HEIGHT (inches)

48	45	38	35	34	32	31	45	43	44	30
46	42	37	31	32	29	28	44	42	44	29
52	47	41	36	35	33	30	45	43	46	31
45	41	38	33	33	30	30	44	40	41	30
39	36	28	32	31	27	24	47	35	40	25
42	36	34	29	28	27	26	43	37	42	25
43	37	32	30	27	29	22	43	35	37	27
46	42	33	32	34	29	29	46	41	40	27
47	44	38	33	33	32	29	44	40	46	31
53	49	36	35	34	35	30	46	44	49	33
44	40	34	29	31	29	28	44	38	41	29
44	39	36	33	29	29	27	42	40	43	29
45	43	39	38	32	34	31	43	40	48	33

SEED QUALITY (score)

3.2	3.8	2.0	2.5	3.5	1.3	1.5	2.3	2.6
2.3	2.0	2.0	1.0	2.5	1.6	1.2	1.8	1.7
2.7	2.8	2.0	1.0	2.5	1.6	1.3	1.9	1.7
2.5	2.7	2.0	1.2	3.2	1.2	1.3	2.0	1.9
3.0	4.0	3.0	3.0	4.0	1.5	1.3	2.8	2.9
2.5	3.2	2.0	1.3	4.0	1.3	1.0	2.4	2.0
2.7	3.0	2.0	2.3	3.8	1.2	1.5	2.3	2.3
2.8	3.3	2.0	1.8	4.0	1.8	1.3	2.7	2.7
3.2	4.3	3.0	3.2	4.0	1.3	1.3	2.7	2.7
3.3	4.2	3.0	2.2	4.2	1.3	1.5	2.4	2.2
3.0	3.2	2.0	1.2	3.0	1.3	1.0	2.3	1.7
3.0	3.3	2.0	2.2	3.8	1.0	1.2	2.3	2.3
3.0	4.0	2.0	2.5	3.5	1.1	1.5	2.7	2.5

SEED SIZE (g/100)

17.5	17.7	19.7	23.4	15.2	15.6	19.5	16.7
16.4	16.7	20.5	21.0	15.1	14.7	18.1	15.2
18.2	20.1	21.7	22.0	15.7	16.6	19.5	17.1
15.1	14.4	18.1	17.2	13.9	14.0	17.9	13.3
20.0	17.0	23.7	21.8	18.1	18.6	22.2	17.3
17.0	13.5	18.7	18.9	15.8	16.4	20.8	13.7
16.1	14.3	19.5	17.7	15.3	15.4	19.4	13.8
19.1	17.2	20.9	22.9	16.8	17.4	21.3	16.5
18.1	17.3	22.3	21.2	15.4	16.3	21.1	15.8
17.9	17.1	22.2	22.5	15.4	14.9	19.7	15.9
18.8	18.0	21.2	22.2	16.1	17.0	20.8	16.5
18.4	17.1	22.3	20.5	18.4	17.8	21.2	15.8
16.7	14.0	21.4	20.3	18.4	18.3	20.8	14.9

Strain	East	NJ	Md.	Central	Ohio	Indiana	
	Coast	Adel-	Clarks-	Mean	Colum-	Lafay-	Sulli-
	Mean	phia	ville		bus	ette	van
	2 Tests	<u>PROTEIN (%)</u>		12 Tests	<u>PROTEIN (%)</u>		
Calland	42.5	43.2	41.8	39.9	43.3	38.9	41.0
Williams	41.6	42.6	40.7	40.9	42.3	40.7	41.5
L21	42.5	43.4	41.6	41.6	43.0	41.3	41.7
Woodworth	42.2	42.8	41.6	40.2	40.9	39.9	41.0
A73-314	40.6	41.6	39.7	39.6	41.6	38.3	40.2
A73-12013	41.0	41.9	40.1	39.9	41.5	39.3	39.8
A73-23066	41.5	42.6	40.4	39.7	41.4	39.5	39.7
L69U19-16-2	41.8	43.3	40.3	40.7	41.3	41.0	41.1
L69U37-17-5	40.6	41.7	39.6	39.6	41.4	39.0	40.2
L69U40-19-1	41.0	42.5	39.4	40.3	42.9	40.1	40.0
L69U72-3-4	41.8	43.5	40.1	41.1	42.2	40.1	40.8
L70D6-11-5	42.2	42.5	42.0	40.9	42.4	40.9	40.3
L70T-543G	40.5	41.5	39.5	40.2	41.4	39.7	40.7
	2 Tests	<u>OIL (%)</u>		12 Tests	<u>OIL (%)</u>		
Calland	18.8	18.4	19.3	20.6	18.4	21.1	20.6
Williams	21.0	20.4	21.6	21.8	19.9	22.3	22.0
L21	19.7	19.2	20.2	21.2	19.7	21.4	21.4
Woodworth	20.4	20.0	20.8	21.9	21.9	21.7	22.3
A73-314	21.3	20.9	21.7	22.6	20.4	23.4	23.3
A73-12013	21.4	20.9	21.9	22.4	20.4	22.5	23.0
A73-23066	20.3	19.8	20.8	21.8	20.2	21.8	21.9
L69U19-16-2	19.7	18.8	20.6	21.1	19.9	20.7	21.7
L69U37-17-5	20.0	19.3	20.7	21.4	20.2	21.4	21.7
L69U40-19-1	20.4	19.8	21.0	20.8	19.7	21.0	21.7
L69U72-3-4	20.0	19.2	20.8	21.4	20.5	21.6	22.5
L70D6-11-5	20.2	20.2	20.3	21.8	20.0	22.0	22.3
L70T-543G	22.1	21.6	22.6	22.6	20.5	23.3	23.0

<u>Ky.</u> Hender- son	<u>Illinois</u> Belle- ville		<u>Iowa</u> Eldo- rado	<u>Iowa</u> Ottumwa	<u>S.D.</u> Elk Point I	<u>Neb</u> Mead I	<u>Kansas</u> Manhat- tan I Powhat- tan	
<u>PROTEIN (%)</u>								
39.9	40.5	38.8	40.4	40.7	38.7	38.5	39.9	38.6
41.5	42.1	39.8	41.0	42.1	40.8	39.0	41.1	39.2
42.5	42.2	41.6	42.1	42.6	40.3	39.5	41.5	40.8
40.6	41.8	39.1	40.0	41.0	40.0	38.9	40.2	39.1
39.7	41.1	37.1	40.6	39.9	39.9	38.4	39.8	39.0
40.1	41.8	38.1	39.2	39.9	39.8	39.3	40.8	39.1
40.3	41.7	38.0	39.2	39.1	38.8	39.0	40.2	39.6
40.7	42.3	40.1	40.4	41.5	39.6	39.0	41.9	39.7
40.7	41.0	38.2	38.4	41.1	39.6	38.0	40.4	37.7
41.7	41.1	39.1	39.7	41.3	39.1	38.7	41.1	39.2
41.9	42.1	40.5	41.2	42.3	40.5	39.8	42.1	39.3
40.1	42.6	39.4	41.4	42.3	39.6	39.5	41.8	40.4
40.7	42.1	38.1	39.9	39.8	39.1	39.4	41.3	39.7
<u>OIL (%)</u>								
21.2	19.8	22.6	21.6	20.5	20.0	20.7	20.2	20.1
22.5	21.1	23.5	23.2	21.3	20.0	21.6	22.1	22.7
21.5	20.7	22.1	22.3	20.2	20.3	21.5	21.6	21.5
22.1	20.8	23.5	22.9	21.3	20.3	22.3	22.4	21.2
22.9	22.7	25.0	22.4	22.0	20.8	22.5	22.7	22.8
22.7	21.5	24.1	23.9	22.4	20.8	22.6	22.4	22.4
21.7	20.6	23.2	22.6	22.1	21.4	21.9	22.6	22.0
22.0	20.2	22.2	22.8	20.9	19.7	21.0	20.9	20.9
21.5	20.7	22.8	23.2	20.4	19.9	21.4	21.6	22.4
20.6	20.5	22.2	22.4	20.4	19.9	20.3	20.4	20.6
21.5	21.0	22.8	22.5	20.1	19.8	21.5	20.8	21.6
22.1	21.0	23.5	22.3	21.3	21.1	22.1	21.9	21.8
23.3	21.8	24.6	23.0	22.7	21.5	22.8	22.4	22.2

Strain	Parentage	Line
1. Calland		
2. Williams		
3. Woodworth		
4. AX899-6-1	CX407BC ₇ -326 x AP68-111	F ₄
5. A74-204001	Corosy x IVR Ex4426	"
6. A74-204026	IVR Ex4428 x Md66-1258	"
7. A74-204028	Corosy x Williams	"
8. A74-204030	Bonus x M59-120 (II-54-240 x II-54-139)	"
9. A74-302008	Swift x L66L-137 (Wayne x L57-0034)	"
10. A74-302030	M62-263 (Grant x M319W) x IVR Ex4426	"
11. A74-303013	L66L-137 (Wayne x L57-0034) x Calland	"
12. A74-304009	IVR Ex5003 x L66L-144 (Wayne x L57-0034)	"
13. A74-305014	M59-120 x IVR Ex4731	"
14. A74-306002	M61-96 (Merit x Harosoy) x Williams	"
15. C1525	Calland x L63-1397 (Harosoy ⁶ x T207)	"
16. C1526	" "	"
17. C1527	" "	"
18. C1528	" " ;Semideterminate Line "	"
19. C1529	" " ;	"
20. L69U14-16-5	L15 (Wayne-Rps) x Corosy	F ₅
21. L69U72-3-6	Cutler x A100 ₈	"
22. L69U108-9-4	C1423 (C1266R ⁸ x C1253) x Provar	"
23. L72A-69	Cutler x Provar	F ₆
24. L72-672	Wayne-I r Rps x Merit	F ₄
25. L72-0010	(Clayk ⁴ x PI8 ₄ 946-2) x Wayne-I r Rpm Rps	F ₅
26. L72-1369	SL12 ⁶ (Wayne-I r Rpm Rps) ₁₀ x L62-1579 (Clark-l _n)	F ₅
27. L72-1419	L15 (Wayne-Rps) x (Wayne ¹⁰ x Kanrich)	" ₃
28. L72-1424	" x [(L15 ⁷ x Clark 63) x Wayne ¹⁰ x Kanrich)]	"
29. L73-212	SL12 ⁶ (Wayne-I r Rpm Rps) x Merit	"
30. L73U-55	Corosy x L62-1251 (Clark ⁶ x T117)	F ₆
31. L73U-98	C1426 (C1253 x Kent) x L15	" ₆
32. L73U-115	Amsoy x L62-1251; Semideterminate Line	"
33. L73U-285	L67-533 (Clark ⁶ x Higan) x Calland	F ₅
34. L73U-332	L67-533 x L66L-154 (Wayne x L57-0034)	" ₅
35. L73U-338	" x L66L-140 (Wayne x L57-0034)	"
36. U10917	C1253 (Blackhawk x Harosoy) x Wayne	"

This test has several strains which are equal in yield to Williams. Of these, C1528, A74-303013, and A74-304009 are 4 to 5 days earlier maturing and C1529 two days earlier than Williams and all have good lodging resistance. The strains C1528 and C1529 are resistant to phytophthora root rot, A74-303013 is segregating for phytophthora and A74-304009 is susceptible.

Strain	BB	BP	BS	DM	FE ₂	KAR		PSB	FS	UNV	PR		Vick. OH	
	Urb	Urb	Laf	Sull	Laf	Laf	Amso	Laf	Laf	Laf	Laf	Ames		
	IL	IL	IN	IN	IN	IN	IA	IN	IN	IN	IN	IA		
	n	a	n	n	a	n%	n% stem plants	a%	a	n seed	a	a		n
Calland	1	4	4	3	4	70	73	100	32	5	5E	R	R	3.5
Williams	1	1	3	4	3	70	67	100	24	5	4E	S	S	3.5
Woodworth	1	1	3	5	4	90	73	100	36	5	4E	S	S	3.5
AX899-6-1	2	3	2	3	4	30	61	100	59	4	5E	R	R	4.5
A74-204001	1	3	3	5	2	90	79	100	34	5	3M	S	S	4.0
A74-204026	3	4	4	4	2	50	75	100	27	5	5E	S	S	3.0
A74-204028	1	1	4	5	3	100	72	100	46	4	5E	S	S	3.5
A74-204030	3	3	5	3	5	50	86	100	34	5	4E	S	H	5.0
A74-302008	1	1	3	4	3	100	82	100	65	4	4E	S	S	4.5
A74-302030	1	4	3	5	4	40	80	100	22	5	2M	S	S	5.0
A74-303013	1	3	3	4	5	100	79	100	19	5	5M	H	H	3.0
A74-304009	1	1	3	4	5	80	76	100	27	4	3E	S	S	5.0
A74-305014	1	2	4	4	4	100	88	100	38	5	5S	S	S	4.5
A74-306002	1	4	3	4	4	90	82	100	28	5	1	R	R	3.5
C1525	2	4	4	4	5	90	71	100	39	5	4E	H	R	3.5
C1526	1	4	3	3	5	70	87	100	68	5	5S	S	H	3.0
C1527	2	3	5	3	5	80	71	100	36	5	3E	S	H	3.5
C1528	2	4	5	3	5	100	78	100	37	5	4E	R	R	3.0
C1529	2	4	4	4	5	90	74	100	43	5	5E	R	R	5.0
L69U14-16-5	1	1	5	4	4	90	74	100	69	5	5S	R	R	3.5
L69U72-3-6	1	3	3	4	4	100	81	100	27	4	4M	S	H	4.0
L69U108-9-4	1	3	3	2	3	60	56	100	43	5	5S	S	H	2.5
L72A-69	1	4	4	3	3	60	42	70	42	5	5E	S	H	3.5
L72-672	1	3	4	3	2	100	52	95	49	5	2S	R	R	2.5
L72-0010	3	1	5	5	5	90	27	75	38	5	5E	R	H	3.5
L72-1369	3	2	4	5	3	90	50	90	57	5	5E	R	R	3.0
L72-1419	1	1	5	2	3	100	59	95	49	5	5E	R	H	3.5
L72-1424	2	1	4	1	3	60	63	75	46	5	5E	R	H	3.0
L73-212	1	1	4	1	3	60	57	95	50	5	2E	R	R	3.5
L73U-55	2	4	3	4	4	50	63	95	47	5	4M	S	S	3.5
L73U-98	3	1	5	5	3	90	69	90	46	5	5E	S	S	3.5
L73U-115	2	3	5	3	5	100	59	95	24	5	3M	S	S	4.0
L73U-285	2	1	4	4	5	100	73	100	32	3	3E	S	H	4.0
L73U-332	2	1	3	5	3	100	69	100	28	4	5E	S	S	4.0
L73U-338	1	2	4	4	4	90	67	75	36	4	5E	S	S	4.5
U10917	1	3	3	5	4	100	61	100	43	5	5E	R	R	5.0

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Descriptive and Other Data

Strain	Descriptive Code		Chlorosis	Shattering
			Ames Iowa	Manhattan Kansas
Calland	PTNBr	DYB1	4	3
Williams	WTNTn	SYB1	4	1
Woodworth	WTNTn	DYB1	4	3
AX899-6-1	PGNTn	SYT	3	3
A74-204001	WGNBr	DYT	4	3
A74-204026	WTNBr	SYTn	5	4
A74-204028	PTNBr	SYG	5	3
A74-204030	PGNBr	DYBf	3	5
A74-302008	WTNTn	DYB1	3	5
A74-302030	PGNBr	DYBf+Ib	3	2
A74-303013	PTNTn+Br	DYB1	5	3
A74-304009	P+WGNBr	DYBr+Ib	4	2
A74-305014	WTNTn	DYBr	4	3
A74-306002	WG+TNBr	D+SYT+G+Ib	4	4
C1525	PGNBr	DYBf+Ib	4	5
C1526	PTNBr	DYB1+G	4	3
C1527	PGNBr	SYBf+Ib	5	3
C1528	PGNBr	DYBf+Ib	4	2
C1529	PGNBr	DYT+G	4	3
L69U14-16-5	WTNBr	DYB1	5	1
L69U72-3-6	WTNBr	SYB1	4	1
L69U108-9-4	PGNTn	SYBr	4	1
L72A-69	PTNBr	SYBr	4	2
L72-672	WTNBr	SYT	4	3
L72-0010	WTNBr	DYBr	5	3
L72-1369	WTNBr	SYT	5	4
L72-1419	WTNBr	SYB1	3	5
L72-1424	WTNBr	SYT	3	4
L73-212	WTNBr	SYT	3	4
L73U-55	PTNBr	DYBr	3	3
L73U-98	WTNBr	SYB1	3	4
L73U-115	PGNTn	SYB1	2	1
L73U-285	PTNBr	DYB1	2	3
L73U-332	PTNTn	SYB1	3	2
L73U-338	PTNBr	SYB1	3	1
U10917	PGNTn	SYT+Bf	2	4

PRELIMINARY TEST III, 1975

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Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Height	Seed Qual.	Seed Size	Seed Composition	
								Protein	Oil
No. of Tests	9	9	9	9	10	9	9	4	4
Calland	49.8	14	+1.9	2.0	39	2.0	17.6	40.1	21.2
Williams	51.6	2	+4.4	1.7	38	1.3	17.7	40.5	22.4
Woodworth	49.1	17	9-27.3	1.7	37	1.6	15.9	40.0	22.2
AX899-6-1	45.1	35	-5.7	3.2	36	2.1	15.0	38.6	23.6
A74-204001	49.2	16	-2.0	1.6	33	2.2	16.3	39.9	22.8
A74-204026	49.8	14	-0.2	2.0	39	1.6	15.5	40.9	22.6
A74-204028	50.0	11	-2.3	1.8	32	1.8	16.8	40.2	22.8
A74-204030	47.2	27	-3.2	2.3	38	2.0	15.9	42.0	22.3
A74-302008	46.6	31	-4.8	2.5	35	1.9	15.4	37.8	23.9
A74-302030	50.3	7	+0.9	2.1	36	1.7	18.1	40.2	21.7
A74-303013	51.6	2	+0.3	1.4	35	1.6	19.0	39.4	22.6
A74-304009	51.1	5	-0.6	1.6	30	1.6	16.6	40.4	21.9
A74-305014	47.7	26	+2.6	2.1	41	1.7	17.6	39.6	22.4
A74-306002	50.8	6	+0.1	1.8	39	1.7	16.2	40.6	22.9
C1525	50.3	7	+0.6	1.7	38	2.4	18.6	41.5	21.0
C1526	44.4	36	-8.2	1.4	31	2.2	17.7	41.6	21.1
C1527	50.2	9	+0.9	1.5	39	1.8	18.0	41.0	21.0
C1528	52.0	1	+0.2	1.8	37	2.1	18.1	40.3	21.5
C1529	51.3	4	+2.3	1.6	39	2.3	17.6	40.1	22.1
L69U14-16-5	50.0	11	-1.3	2.5	32	2.2	17.3	41.2	21.6
L69U72-3-6	48.2	21	+4.2	1.9	37	1.5	17.1	41.3	20.9
L69U108-9-4	46.0	34	+6.2	2.3	39	1.8	18.6	44.4	20.4
L72A-69	46.4	33	+5.8	1.9	38	1.7	17.8	41.5	21.2
L72-672	48.1	22	+4.8	2.0	42	1.9	16.9	40.8	21.9
L72-0010	47.9	24	+1.9	2.0	39	2.0	16.9	41.5	21.6
L72-1369	47.9	24	+1.4	2.1	40	1.8	16.1	41.6	21.2
L72-1419	48.9	18	-0.3	2.4	38	2.0	17.9	41.3	21.6
L72-1424	48.0	23	+1.9	2.3	40	1.9	17.4	41.4	21.6
L73-212	48.8	20	+1.3	2.1	39	2.0	17.8	41.7	21.5
L73U-55	47.1	29	-2.0	3.0	40	1.9	15.3	40.9	21.9
L73U-98	46.8	30	-0.4	2.0	38	1.8	17.3	41.9	21.4
L73U-115	47.2	27	+1.7	2.2	34	2.0	16.2	41.0	21.4
L73U-285	48.9	18	+4.1	1.8	35	2.1	16.5	40.4	22.3
L73U-332	50.1	10	+1.3	1.6	35	1.8	17.9	39.6	22.6
L73U-338	50.0	11	+4.8	1.9	35	1.8	18.6	40.6	21.9
U10917	46.6	31	-6.1	2.0	37	2.3	16.5	39.2	23.0

Strain	Mean	YIELD (bu/a)				
		Maryland Clarksville	Ohio Columbus	Indiana Lafayette	Illinois Urbana Girard	
	9 Tests	YIELD (bu/a)				
Calland	49.8	50.8	17.2	61.3	50.2	45.2
Williams	51.6	48.6	31.4	60.6	52.8	55.1
Woodworth	49.1	42.9	24.8	56.8	56.8	47.9
AX899-6-1	45.1	47.9	17.9	55.0	49.2	39.6
A74-204001	49.2	47.8	13.1	52.2	56.3	49.9
A74-204026	49.8	42.9	34.4	59.8	56.9	50.8
A74-204028	50.0	45.1	19.5	53.1	57.5	51.3
A74-204030	47.2	44.3	8.6	48.1	56.1	45.0
A74-302008	46.6	42.4	9.5	51.6	55.7	43.4
A74-302030	50.3	49.8	30.7	52.7	55.4	50.6
A74-303013	51.6	46.1	12.1	59.6	53.6	51.5
A74-304009	51.1	45.9	36.9	60.6	58.2	47.6
A74-305014	47.7	44.3	26.7	54.5	53.6	50.1
A74-306002	50.8	49.7	13.5	56.5	57.8	49.3
C1525	50.3	54.8	10.7	61.2	57.7	49.0
C1526	44.4	45.9	15.4	49.2	52.2	42.4
C1527	50.2	54.0	18.9	54.0	55.9	46.1
C1528	52.0	60.4	34.3	57.2	57.2	46.4
C1529	51.3	49.8	22.9	59.5	55.8	47.7
L69U14-16-5	50.0	47.5	13.1	58.3	48.2	49.9
L69U72-3-6	48.2	43.2	27.0	54.8	51.1	50.4
L69U108-9-4	46.0	49.4	20.9	47.8	45.8	53.0
L72A-69	46.4	46.7	29.1	52.0	50.7	49.0
L72-672	48.1	47.0	19.8	57.9	50.0	52.2
L72-0010	47.9	39.1	38.1	64.0	52.5	50.3
L72-1369	47.9	41.2	32.2	55.4	50.7	48.7
L72-1419	48.9	47.2	21.2	58.4	55.7	53.1
L72-1424	48.0	46.8	30.4	55.6	53.7	51.8
L73-212	48.8	52.1	18.4	55.9	54.5	52.4
L73U-55	47.1	46.7	25.0	55.9	50.7	44.2
L73U-98	46.8	43.8	28.4	54.5	51.5	49.4
L73U-115	47.2	46.8	24.5	54.8	50.0	42.3
L73U-285	48.9	46.3	13.1	55.7	55.5	49.8
L73U-332	50.1	48.7	26.4	53.4	52.8	50.8
L73U-338	50.0	46.3	23.0	55.7	53.4	53.4
U10917	46.6	42.0	15.4	57.0	52.8	42.7
C.V. (%)		8.1		6.0	6.7	4.8
L.S.D. (5%)		7.8		6.5	7.3	4.7
Row Sp. (in.)		30	28	30	30	36
Rows/Plot		4	3	3	4	4
Reps.		2	2	2	2	2

* Hail damage 8-9-75, Not included in the mean.

PRELIMINARY TEST III, 1975

<u>Iowa</u>		<u>S. Dakota</u>	<u>Neb.</u>	<u>Kansas</u>
<u>Stuart</u>	<u>Ottumwa</u>	<u>Elk Point I</u>	<u>Mead I</u>	<u>Manhattan I</u>
<u>YIELD (bu/a)</u>				
48.3	46.8	32.7	41.5	71.0
51.0	49.6	29.9	43.6	73.0
50.1	47.2	32.4	40.2	67.4
47.2	40.0	32.2	39.8	54.6
47.4	45.1	36.1	36.8	70.8
50.0	52.7	30.6	38.4	65.8
50.5	44.4	39.6	44.0	64.1
44.0	41.7	34.8	43.7	66.7
48.9	43.6	35.6	40.0	58.3
49.0	45.5	36.8	46.8	65.9
51.6	53.5	31.2	44.6	73.1
50.0	43.6	37.0	47.3	69.5
48.9	43.8	29.0	36.5	68.7
51.7	46.5	32.0	39.7	74.4
48.2	37.5	33.0	39.6	72.0
40.7	35.8	36.2	38.1	59.3
48.1	41.6	37.8	36.7	77.5
46.8	49.4	35.9	44.0	71.1
50.3	42.5	34.4	46.0	75.6
49.2	47.2	36.4	48.1	65.0
48.7	52.4	30.0	38.6	64.7
45.6	49.8	23.8	30.7	67.7
48.0	44.9	25.7	36.2	64.4
48.5	49.8	27.1	35.3	65.2
46.7	47.9	28.0	39.6	63.0
46.6	50.6	31.7	38.7	67.5
47.3	48.9	30.4	36.6	62.4
47.8	48.9	29.7	38.1	59.8
45.1	49.8	30.0	37.6	62.2
44.6	45.3	35.5	37.4	63.5
46.2	45.2	28.8	37.2	64.3
44.5	52.3	27.9	39.4	67.1
46.4	51.5	29.8	40.5	64.9
50.4	49.4	32.0	40.4	72.9
48.8	50.2	32.2	41.3	68.3
47.7	37.3	35.1	42.2	62.7
4.3	9.8	7.0	9.7	5.6
4.1	9.2	3.7	7.8	7.6
27	27	30	30	30
4	4	2	4	4
2	2	3	2	2

PRELIMINARY TEST III, 1975

Strain	Md.		Ohio		Ind.		Ill.		Iowa		S. D.		Neb.		Ka.	
	Mean	ville	Clarks-	Colum-	Lafay-	Ur-	bana	Girard	Stuart	Ottum-	Elk	PointI	I	Mead	Manhat-	I
	9 Tests															
	YIELD RANK															
Calland	14	5	25	2	31	29	17	19	15	11	9					
Williams	2	11	6	4	21	1	3	11	27	9	5					
Woodworth	17	31	15	14	7	24	7	17	16	15	16					
AX899-6-1	35	12	26	22	34	36	25	33	17	17	36					
A74-204001	16	13	30	31	8	16	23	24	7	30	10					
A74-204026	14	32	3	6	6	10	8	2	23	24	20					
A74-204028	11	26	22	29	4	9	4	26	1	6	27					
A74-204030	27	27	35	35	9	30	35	31	12	8	18					
A74-302008	31	33	36	33	12	32	12	28	9	16	35					
A74-302030	7	7	7	30	15	12	11	21	4	3	19					
A74-303013	2	23	33	7	18	8	2	1	22	5	4					
A74-304009	5	24	2	4	1	26	8	28	3	2	11					
A74-305014	26	28	12	25	18	15	12	27	30	33	12					
A74-306002	6	8	29	15	2	20	1	20	19	18	3					
C1525	7	2	34	3	3	21	18	34	14	19	7					
C1526	36	25	27	34	25	34	36	36	6	25	34					
C1527	9	3	23	27	10	28	19	32	2	31	1					
C1528	1	1	4	12	5	27	26	12	8	6	8					
C1529	4	6	18	8	11	25	6	30	13	4	2					
L69U14-16-5	11	14	30	10	35	16	10	17	5	1	22					
L69U72-3-6	21	30	11	23	27	13	15	3	25	23	24					
L69U108-9-4	34	9	20	36	36	4	31	8	36	36	14					
L72A-69	33	20	9	32	28	21	20	25	35	34	25					
L72-672	22	16	21	11	32	6	16	8	34	35	21					
L72-0010	24	36	1	1	24	14	27	16	32	19	29					
L72-1369	24	35	5	21	28	23	28	6	21	22	15					
L72-1419	18	15	19	9	12	3	24	14	24	32	31					
L72-1424	23	17	8	20	17	7	21	14	29	25	33					
L73-212	20	4	24	16	16	5	32	8	25	27	32					
L73U-55	29	19	14	16	28	31	33	22	10	28	28					
L73U-98	30	29	10	25	26	19	30	23	31	29	26					
L73U-115	27	18	16	23	32	35	34	4	33	21	17					
L73U-285	18	21	30	18	14	18	29	5	28	13	23					
L73U-332	10	10	13	28	21	10	5	12	19	14	6					
L73U-338	11	22	17	18	20	2	14	7	17	12	13					
U10917	31	34	27	13	21	33	22	35	11	10	30					

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Strain	Md.		Ohio		Ind.		Ill.		Iowa		S.D.		Neb.		Ka.	
	Mean	ville	Clarks-	Colum-	Lafay-	Ur-	bana	Girard	Stuart	Ottum-	Elk	PointI	I	Mead	Manhat-	I
	9 Tests		MATURITY (relative date)													
Calland	+1.9	+8	-1	+2	-5	0	+4	*	+3	+7	-1					
Williams	+4.4	+4	-1	+6	+4	+9	+5		+4	+7	+2					
Woodworth	9-27.3	10-2	10-22	9-14	9-26	9-9	9-30		10-8	9-22	9-23					
AX899-6-1	-5.7	0	0	-6	-11	-9	-4		-3	-2	-16					
A74-204001	-2.0	+4	0	-5	-1	-5	-2		-5	0	-4					
A74-204026	-0.2	+2	-1	0	-2	+3	0		-1	+2	-5					
A74-204028	-2.3	+2	+2	-4	-8	-2	0		-3	0	-8					
A74-204030	-3.2	0	+1	-4	-5	-2	-4		-2	-3	-10					
A74-302008	-4.8	+1	+1	-6	-12	-7	-3		-3	-2	-12					
A74-302030	+0.9	+5	+2	+2	-4	0	+2		0	+2	-1					
A74-303013	+0.3	0	-1	-1	-4	+2	+2		+4	+4	-3					
A74-304009	-0.6	+4	-2	0	-2	0	+2		-5	+6	-8					
A74-305014	+2.6	+2	-1	+5	+3	+8	+1		+2	+2	+1					
A74-306002	+0.1	+3	0	0	-4	-3	0		0	+4	+1					
C1525	+0.6	+6	0	+5	-7	0	+3		-3	+2	-1					
C1526	-8.2	-3	+1	-10	-18	-12	-6		-6	-2	-18					
C1527	+0.9	+4	+1	+6	-5	0	+1		0	0	+1					
C1528	+0.2	+4	+6	+4	-8	-3	0		-3	+2	0					
C1529	+2.3	+5	+3	+6	-2	-4	+6		-1	+7	+1					
L69U14-16-5	-1.3	0	+1	-2	-6	-1	-4		0	0	0					
L69U72-3-6	+4.2	+8	0	+6	+2	+8	+5		+4	+4	+1					
L69U108-9-4	+6.2	+7	-1	+10	+3	+16	+4		+7	+6	+4					
L72A-69	+5.8	+4	-1	+10	+5	+15	+2		+5	+8	+4					
L72-672	+4.8	+4	+5	+6	+3	+10	+2		+4	+6	+3					
L72-0010	+1.9	0	+3	+5	0	+4	+1		-1	+3	+2					
L72-1369	+1.4	-1	+3	+3	0	+6	0		0	+2	0					
L72-1419	-0.3	0	+5	0	-4	0	-3		-2	0	+1					
L72-1424	+1.9	+1	+4	+2	-1	+5	0		+3	+1	+2					
L73-212	+1.3	+2	0	+4	-1	+3	+1		+1	0	+2					
L73U-55	-2.0	+4	+6	0	-6	-3	-3		-3	-2	-11					
L73U-98	-0.4	-1	+3	0	-3	+1	-1		-2	-2	+1					
L73U-115	+1.7	+4	+3	+4	-5	0	+6		0	+6	-3					
L73U-285	+4.1	+6	+1	+6	0	+8	+4		+5	+4	+3					
L73U-332	+1.3	+2	+1	0	+1	+1	+4		+1	+2	0					
L73U-338	+4.8	+5	+4	+6	+3	+10	+3		+4	+6	+2					
U10917	-6.1	-3	0	-6	-16	-9	-3		-5	-2	-11					
Beeson (II)		-3		-4	-14	-13	-1		-3	-5						
Cutler 71 (IV)		+12	-2	+15		+15	+6			+14	+9					
Date planted	5-17	6-11	5-15	5-7	5-16	5-16	5-17		5-15	5-19	5-16					

Strain	Parentage	Previous Testing*	Line
1. Cutler 71	Cutler ⁴ x SL5 (Kent-Rps rxp)	6	6F ₃
2. Kent	Lincoln x Ogden	21	F ₇
3. A72-512	Amsoy x Wayne	2	F ₅
4. C1518	Amsoy x Cutler	PIV	" ⁷
5. C1520	Bonus x Cutler	PIV	"
6. L70L-2912	L15 (Wayne-Rps) x D64-3077 (D49-2491) ⁵ x Hawkeye)	1	"
7. L70L-3048	L15 (Wayne-Rps) x D64-3146 (D49-2491) ⁵ x Hawkeye)	PIV	"
8. L71L-554	Cutler x SL12 (Wayne-I r Rpm Rps)	PIV	"
9. L71L-556	" " " "	PIV	"
10. L72A-89	Cutler x Beeson	PIV	F ₆

* Number of years in test or name of 1974 test.

In the 6-year Central mean, Cutler 71 and Kent do not differ in yield. Kent is 5 days later maturing than Cutler 71.

The 2-year Central mean shows A72-512 having a mean yield 3 bushels higher and a maturity 4 days earlier than Kent. However, A72-512 is somewhat lodging susceptible, and is susceptible to phytophthora root rot. The strain L70L-2912 has the same yield as Kent, matures 7 days earlier, and is resistant to phytophthora.

The strain A72-512 is the highest yielding in the 1975 Central test and matures 1.4 days later than Cutler 71 and 3 days earlier than Kent but is more lodging susceptible than the other entries in the test. Strains L71L-554 and L71L-556 were 2 bushels higher yielding and 1 to 2 days earlier maturing than Kent and have moderately high protein content. L71L-554 is segregating for phytophthora reaction and L71L-556 is resistant. The strain C1518 is 1 bushel higher yielding and 3 days earlier than Kent and is susceptible to phytophthora.

The 2-year East Coast mean shows A72-512 4 bushels higher yielding and the same maturity as Cutler 71, but is more lodging susceptible.

The 1975 East Coast mean shows all strains higher yielding than the checks with the strain L71L-554 5 bushels higher in yield and 3 days later in maturity than Cutler 71. The strains L71L-556, C1518, and L70L-3048 are 4 bushel higher yielding and mature 2 to 3 days later than Cutler 71.

Disease Data

Strain	BB	BP	BS	DM	FE ₂	BSR		
	Urbana	Urbana	Lafayette	Sull.	Lafayette	Laf.	Ames	
	Ill.	Ill.	Ind.	Ind.	Ind.	Ind.	Iowa	
	n	a	n	n	a	n%	n %	
							stem plants	
Cutler	1	2	3	3	1	90	39	85
Kent	1	3	5	1	1	90	72	100
A72-512	1	1	2	4	3	100	65	85
C1518	1	3	2	3	4	90	63	95
C1520	1	1	3	3	4	100	64	95
L70L-2912	2	1	4	5	3	100	82	100
L70L-3048	1	1	3	3	2	90	68	100
L71L-554	2	1	5	1	3	90	66	95
L71L-556	1	1	4	1	2	90	64	90
L72A-89	1	3	5	3	4	100	62	95

Strain	PSB	PS	SMV	PR		
	Lafayette	Laf.	Lafayette	Laf.	Ames	Vickery
	Ind.	Ind.	Ind.	Ind.	Iowa	Ohio
	d %	a	n seed	a	a	n
Cutler 71	35	5	5E	R	R	3.5
Kent	14	5	5E	S	S	3.0
A72-512	26	5	2M	S	S	3.5
C1518	38	5	5E	S	S	4.5
C1520	38	5	5E	R	R	4.0
L70L-2912	50	4	3E	R	H	4.0
L70L-3048	43	5	3E	S	S	3.0
L71L-554	25	5	5E	H	S	4.0
L71L-556	38	5	5E	R	H	4.5
L72A-89	56	5	5E	R	H	4.5

UNIFORM TEST IV, 1975
Descriptive and Other Data

Strain	Descriptive Code	Chlorosis			Fluor- escent Light	Hypo- Peroxy- idase	Shattering		
		Crkstn. Minn.	Lamb. Minn.	Ames Iowa			Manhat. Kan.	Lubb. Tex.	
Cutler 71	PTNBr SYB1	1.0	1.0	3	L	5	L+H	2	2
Kent	PTNBr IYB1	1.0	1.0	4	L	3	H	2	1
A72-512	WGNTn SYBf	1.0	2.0	3	L	5	L	4	3
C1518	PGNBr SY1	1.0	2.0	2	L	5	H	1	2
C1520	PTNBr SYB1	1.0	1.5	2	L	5	L	3	4
L70L-2912	WTNTn SYB1	1.0	3.0	4	L	4	L	2	3
L70L-3048	WGNTn SYBf	1.0	3.5	3	L	5	L	2	2
L71L-554	PTNBr SYB1	2.5	4.5	4	L	2	L	2	2
L71L-556	WTNBr SYB1	2.5	4.5	4	L	2	L	3	2
L72A-89	PTNBr SYB1	1.0	2.0	3	L	5	L	2	2

UNIFORM TEST IV, 1975
Regional Summary

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Strain	Yield	Rank	Matu- rity	Lodg- ing	Seed Height	Seed Qual.	Seed Size	Seed Composition	
								Protein	Oil
<u>1975, Central</u>									
No. of Tests	20	20	16	20	20	19	17	9	9
Cutler 71	43.2	10	9-25.8†	1.8	37	2.3	18.0	41.2	21.2
Kent	45.1	7	+4.3	1.7	36	2.2	17.8	41.1	21.0
A72-512	48.7	1	+1.4	3.1	40	2.5	15.1	40.5	21.7
C1518	46.4	4	+1.2	2.4	41	2.7	15.0	39.7	21.1
C1520	45.4	6	+0.1	2.1	37	2.8	17.1	41.4	21.0
L70L-2912	44.5	8	-1.6	2.1	37	2.0	14.0	41.8	20.5
L70L-3048	46.3	5	+2.8	2.1	37	2.4	15.7	40.7	21.8
L71L-554	46.8	3	+2.4	2.2	38	2.3	17.0	43.4	19.9
L71L-556	47.3	2	+3.1	2.3	37	2.2	17.1	43.1	20.1
L72A-89	44.2	9	-2.2	1.9	36	2.5	17.5	40.6	21.5

† 131 days after planting

1974-75, 2-YEAR MEAN, Central

No. of Tests	40	40	30	41	41	39	33	18	18
Cutler 71	40.5 39.6	4	9-30.2†	2.0	36	2.2	17.9	41.2	20.6
- Kent	40.5 40.1	3	+4.0	1.8	36	2.1	17.6	41.0	20.6
- A72-512	44.2 43.2	1	0	2.8	38	2.2	15.0	40.1	21.3
- L70L-2912	40.9 40.2	2	-2.8	2.2	36	1.9	14.0	42.0	19.8

† 130 days after planting

1970-75, 6-YEAR MEAN, Central

No. of Tests	107	107	89	106	107	106	90	60	60
Cutler 71	42.2	2	9-28.6†	2.1	41	2.2	17.7	41.0	21.6
Kent	42.3	1	+4.7	1.9	39	2.2	17.4	40.7	21.8

† 129 days after planting

UNIFORM TEST IV, 1975

Regional Summary

Strain	Yield	Rank	Matu- rity	Lodg- ing	Height	Seed Qual.	Seed Size	Seed Composition	
								Protein	Oil
<u>1975, East Coast</u>									
No. of Tests	7	7	7	7	7	7	6	2	2
Cutler 71	40.6	9	10-4.3†	2.3	40	2.3	19.5	42.2	20.4
Kent	40.2	10	+4.3	2.2	39	2.2	19.6	42.2	20.6
A72-512	43.2	6	+0.4	3.5	42	2.9	16.0	41.6	20.9
C1518	44.5	3	+2.4	2.9	44	3.4	17.5	41.5	20.2
C1520	43.4	5	-0.6	2.8	41	2.9	18.4	42.6	20.0
L70L-2912	40.9	8	-2.3	2.7	40	2.4	15.2	43.8	20.0
L70L-3048	44.0	4	+1.7	2.5	39	2.8	17.2	42.8	20.6
L71L-554	45.8	1	+2.7	2.5	41	2.4	18.4	44.5	19.1
L71L-556	44.6	2	+2.6	2.5	40	2.2	18.9	44.2	19.3
L72L-89	42.6	7	-1.4	2.4	41	2.7	18.9	42.0	20.8

† 123 days after planting

1974-75, 2-YEAR MEAN, East Coast

No. of Tests	13	13	11	13	13	13	13	4	4
Cutler 71	43.2	2	10-2.8†	2.2	40	2.2	19.8	43.0	20.3
- Kent	41.6	4	+3.2	2.0	38	2.1	19.6	42.7	20.5
- A72-512	47.1	1	0	3.2	40	2.6	16.9	42.0	21.0
- L70L-2912	43.0	3	-2.2	2.5	38	2.2	15.9	44.2	19.8

† 124 days after planting

UNIFORM TEST IV, 1975

Strain	East	Pa.	N.J.	Del.	Maryland		Va.	
	Coast Mean	Landis- ville	Adel- phia	George- town I	Clarks- ville	Queens- town	Princess Ann	Orange
	7 Tests		1975 YIELD (bu/a)					
Cutler 71	40.6	50.6	38.1	41.8	50.4	40.4	27.3	35.3
Kent	40.2	52.2	36.1	41.4	52.1	37.9	28.3	33.4
A72-512	43.2	44.0	33.2	54.3	54.5	46.9	31.6	38.0
C1518	44.5	54.1	27.4	53.4	58.9	45.7	34.8	37.3
C1520	43.4	49.0	36.1	46.4	53.8	45.9	35.5	36.8
L70L-2912	40.9	46.5	30.2	51.2	47.6	48.1	28.0	34.6
L70L-3048	44.0	49.6	32.7	53.6	53.6	51.5	30.5	36.6
L71L-554	45.8	51.7	38.8	58.9	54.2	45.4	35.2	36.2
L71L-556	44.6	48.0	37.1	50.1	59.9	46.3	35.9	35.0
L72A-89	42.6	51.9	39.1	44.6	48.4	44.8	33.7	35.8
C.V. %		8.8	6.8	13.0	5.8	6.0	9.8	
L.S.D. (5%)		6.5	4.5	6.6	5.3	4.7	5.4	
Row Sp. (in.)		30	30	30	30	30	30	30
Rows/Plot		3	3	3	4	4	4	4
Reps.		4	4	4	3	3	3	3

YIELD RANK								
Cutler 71	9	5	3	9	8	9	10	7
Kent	10	2	5	10	7	10	8	10
A72-512	6	10	7	2	3	3	6	1
C1518	3	1	10	4	2	6	4	2
C1520	5	7	5	7	5	5	2	3
L70L-2912	8	9	9	5	10	2	9	9
L70L-3048	4	6	8	3	6	1	7	4
L71L-554	1	4	2	1	4	7	3	5
L71L-556	2	8	4	6	1	4	1	8
L72A-89	7	3	1	8	9	8	5	6

Strain	20 Tests	1973-75, 3-YEAR MEAN YIELD					
	Cutler 71	42.6	45.7		42.0		
Kent	41.2	44.6		39.9			

YIELD RANK								
Cutler 71	1	1		1				
Kent	2	2		2				

UNIFORM TEST IV, 1975

Strain	Ohio		Indiana		Ky.		Illinois			
	Central Mean	Colum- bus	Lafay- ette	Sulli- van	Evans- ville	Hender- son	Browns- town	Belle- ville	Eldo- rado	Carbon- dale
	20 Tests		1975 YIELD (bu/a)							
Cutler 71	43.2	26.5	54.4	37.4	63.1	50.8	43.3	60.8	51.6	54.2
Kent	45.1	31.0	52.0	37.3	79.2	38.5	43.5	55.8	55.1	54.3
A72-512	48.7	30.1	60.3	44.0	70.0	62.8	53.4	65.5	57.2	55.5
C1518	46.4	40.1	56.1	37.3	92.6	56.5	44.6	60.5	49.5	56.0
C1520	45.4	35.3	56.4	35.2	72.0	48.8	45.9	58.4	52.0	51.0
L70L-2912	44.5	35.3	48.6	40.9	61.6	50.7	47.6	56.1	52.2	51.0
L70L-3048	46.3	30.4	57.9	42.0	59.4	41.8	42.9	61.5	56.5	59.0
L71L-554	46.8	34.5	57.9	46.7	66.8	58.8	48.2	63.4	51.5	55.8
L71L-556	47.3	38.6	55.8	42.2	64.5	55.0	45.7	62.7	55.1	57.7
L72A-89	44.2	21.5	55.7	37.8	79.4	45.8	45.3	60.2	48.5	55.7
C.V. %			8.5	12.7	22.5	24.9	8.9	6.2	5.0	
L.S.D. (5%)			NS	NS	NS	18.4	9.4	6.4	4.5	
Row Sp. (in.)		28	30	30	30	26	30	30	30	30
Rows/Plot		3	3	3	3	3	4	4	4	4
Reps.		4	3	3	3	4	2	3	3	3
			YIELD RANK							
Cutler 71	10	9	8	7	8	5	9	5	7	8
Kent	7	6	9	8	3	10	8	10	3	7
A72-512	1	8	1	2	5	1	1	1	1	6
C1518	4	1	5	8	1	3	7	6	9	3
C1520	6	3	4	10	4	7	4	8	6	9
L70L-2912	8	3	10	5	9	6	3	9	5	10
L70L-3048	5	7	2	4	10	9	10	4	2	1
L71L-554	3	5	2	1	6	2	2	2	8	4
L71L-556	2	2	6	3	7	4	5	3	3	2
L72A-89	9	10	7	6	2	8	6	7	10	5
	107 Tests		1970-75, 6-YEAR MEAN YIELD							
Cutler 71	42.2	38.8	47.3		48.0	51.5		51.0	48.4	42.6
Kent	42.3	44.1	42.2		46.2	47.4		50.1	50.8	42.8
			YIELD RANK							
Cutler 71	2	2	1		1	1		1	2	2
Kent	1	1	2		2	2		2	1	1

UNIFORM TEST IV, 1975

Stuart	Iowa		Missouri			Neb.	Kansas			Tex.	
	Ottum- wa	Edina	Apple- ton	Portage ville	Portage ville A	Portage ville B	Mead I	Manhat- tan I	Powhat- tan	Colum- bus	Lub- bock I
<u>1975 YIELD (bu/a)</u>											
48.0	46.9	41.5	32.5	42.0	32.9	35.1	63.9	30.3	5.7	42.4	
49.7	47.5	43.9	45.5	51.5	35.8	31.1	60.3	30.2	12.7	46.8	
51.9	52.8	48.4	36.8	47.0	36.5	39.0	65.8	33.7	14.8	47.7	
51.6	47.8	39.1	38.3	43.4	24.8	34.8	63.7	31.6	11.6	48.5	
53.0	50.0	41.9	33.8	44.4	41.0	36.3	62.5	30.2	10.5	48.5	
47.1	46.9	41.1	32.6	48.4	40.8	37.1	62.3	29.7	12.9	46.6	
49.0	49.5	42.6	40.7	48.8	40.2	37.5	68.0	34.9	14.4	49.0	
48.3	47.1	41.7	39.3	48.6	41.0	33.4	58.7	31.7	14.3	48.2	
48.7	49.6	43.1	47.6	51.6	44.7	36.4	55.4	31.6	14.2	46.2	
50.0	47.6	36.5	34.4	43.2	30.2	36.9	65.8	32.0	10.0	47.5	
6.5	9.4	8.0	9.0	7.4	10.4	9.7	6.3	4.4	16.3	7.8	
4.5	5.8	5.6	5.4	5.8	6.4	6.0	6.6	2.4	3.3	6.3	
27	27	30	30	38	38	30	30	30	30	40	
4	4	2	2	3	3	4	4	4	4	4	
4	4	4	4	3	3	3	3	3	3	3	
<u>YIELD RANK</u>											
9	9	7	10	10	8	7	4	7	10	10	
5	7	2	2	2	7	10	8	8	6	6	
2	1	1	6	6	6	1	2	2	1	7	
3	5	9	5	8	10	8	5	5	7	2	
1	2	5	8	7	2	6	6	8	8	3	
10	9	8	9	5	4	3	7	10	5	8	
6	4	4	3	3	5	2	1	1	2	1	
8	8	6	4	4	2	9	9	4	3	4	
7	3	3	1	1	1	5	10	5	4	9	
4	6	10	7	9	9	4	2	3	9	5	
<u>1970-75, 6-YEAR MEAN YIELD</u>											
<u>71-75</u>	<u>71-75</u>										
38.7	43.5						59.3	37.5	18.1	45.8	
37.5	42.0						56.8	38.0	20.4	49.1	
<u>YIELD RANK</u>											
1	1						1	2	2	2	
2	2						2	1	1	1	

Strain	East	Pa.	NJ	Del.	Maryland		Va.	
	Coast Mean	Landis- ville	Adel- phia	George- townI	Clarks- ville	Queens- town	Princess Ann	Orange
	7 Tests	<u>MATURITY (relative date)</u>						
Cutler 71	10-4.3	10-7	10-3	9-22	10-14	9-18	10-24	10-2
Kent	+4.3	+7	+2	+3	+3	+5	+6	+4
A72-512	+0.4	-1	-6	+5	-2	+2	+1	+4
C1518	+2.4	+7	-3	+4	+1	+1	+3	+4
C1520	-0.6	0	-5	0	0	0	+1	0
L70L-2912	-2.3	-1	-9	+1	-6	0	0	-1
L70L-3048	+1.7	+1	-3	+5	0	+6	+4	-1
L71L-554	+2.7	+1	-1	+6	+2	+4	+3	+4
L71L-556	+2.6	+1	-1	+5	+4	+4	+1	+4
L72A-89	-1.4	-1	-4	0	-6	0	+2	-1
Williams (III)		-3	-4	0	-8	0	-5	
Essex V				+25	+18	+22	+26	
Date Planted	6-3	5-29	5-29	5-27	6-11	5-27	6-17	6-5
+Dys. to mat.	123	131	127	118	125	114	129	119
	7 Tests	<u>LODGING (score)</u>						
Cutler 71	2.3	2.2	2.4	2.0	2.7	3.0	1.5	2.0
Kent	2.2	1.9	2.6	2.1	2.5	2.8	1.2	2.0
A72-512	3.5	3.5	4.3	2.8	4.0	3.7	1.8	4.7
C1518	2.9	2.5	3.9	2.4	4.0	3.0	1.7	2.7
C1520	2.8	2.8	3.8	2.5	3.5	3.3	1.2	2.7
L70L-2912	2.7	3.4	4.0	2.5	3.7	3.0	1.2	1.3
L70L-3048	2.5	2.5	3.6	2.3	3.5	3.0	1.3	1.3
L71L-554	2.5	2.6	2.5	2.3	3.5	3.3	1.5	1.7
L71L-556	2.5	2.2	2.5	2.5	3.5	3.2	1.5	2.3
L72A-89	2.4	1.9	3.0	2.1	3.2	3.2	1.5	2.0
	7 Tests	<u>PLANT HEIGHT (inches)</u>						
Cutler 71	40	38	44	43	39	47	30	42
Kent	39	38	42	44	41	43	28	39
A72-512	42	39	44	44	42	51	30	41
C1518	44	42	46	46	46	53	32	45
C1520	41	40	44	45	41	47	28	40
L70L-2912	40	43	43	43	38	49	25	37
L70L-3048	39	37	43	43	39	45	27	40
L71L-554	41	40	44	45	43	47	29	41
L71L-556	40	37	41	43	42	46	27	41
L72A-89	41	39	46	43	42	46	29	39

Central Mean	Ohio	Indiana		Ky.	Illinois			Iowa			
	Colum- bus	Lafay- ette	Sulli- van	Evans- ville	Hender- son	Browns- town	Belle- ville	Eldo- rado	Carbon- dale	Ottum- wa	
16 Tests											
<u>MATURITY (relative date)</u>											
9-25.8	10-20	9-29	10-1	9-24		9-19	9-24	9-16	9-28	10-5	*
+4.3	-1	+3	+6	+3		+10	+4	+9	+3	+3	
+1.4	-1	+3	-1	0		+5	+3	+3	+1	0	
+1.2	0	+3	-3	0		-1	+3	+2	+1	+1	
+0.1	+3	-3	0	-2		-1	0	+2	-1	-3	
-1.6	+3	-4	-6	-4		0	0	-2	-2	-1	
+2.8	+6	+1	+1	0		+4	+3	+6	+2	+2	
+2.4	+3	+2	+1	0		+2	+3	+9	+2	+1	
+3.1	+2	+1	+2	0		+6	+5	+7	+1	+1	
-2.2	0	-4	-3	-3		0	-1	-6	0	-2	
	-18	-7	-2	-8		-7	-3	-4	-1	-1	
						+25	+20	+29	+14		
5-18	5-15	5-7	5-19	5-20		5-21	5-20	5-18	6-4	5-17	5-15
131	158	145	135	127		121	127	121	116	141	
20 Tests											
<u>LODGING (score)</u>											
1.8	1.5	2.5	1.3	3.3	2.4	1.8	1.6	1.8	3.0	1.6	1.4
1.7	1.5	2.2	1.3	3.0	3.0	1.7	1.5	2.0	2.0	1.4	1.3
3.1	3.0	3.8	2.5	4.2	4.8	3.3	3.7	3.9	4.0	2.5	2.8
2.4	1.0	3.5	2.2	3.8	4.4	3.2	2.4	3.0	4.0	1.4	1.3
2.1	1.5	2.5	1.2	4.3	3.6	4.4	2.5	2.6	3.0	1.6	1.4
2.1	2.0	3.0	1.3	3.5	3.8	1.9	2.4	2.5	3.0	1.6	1.6
2.1	2.0	2.8	1.5	4.0	3.4	1.3	2.4	2.9	3.0	1.9	1.6
2.2	2.0	2.3	2.0	3.5	3.6	2.5	2.0	2.7	3.0	1.9	1.6
2.3	1.5	2.7	1.8	3.5	3.4	2.9	2.4	2.9	3.0	2.0	1.7
1.9	2.0	2.3	1.5	3.5	3.6	2.8	1.7	1.8	2.0	1.6	1.4
20 Tests											
<u>PLANT HEIGHT (inches)</u>											
37	29	46	34	44	43	40	50	47	41	36	36
36	32	43	31	42	40	44	48	43	38	33	34
40	28	47	35	47	49	46	52	49	40	39	41
41	32	48	35	50	53	45	53	49	44	39	40
37	31	44	30	47	48	42	51	45	37	32	36
37	30	41	29	43	46	40	51	44	37	35	36
37	30	42	30	42	48	41	50	43	41	36	36
38	32	45	36	46	45	43	52	46	41	32	33
37	30	43	33	44	47	42	50	46	40	35	34
36	28	43	32	42	42	45	51	46	38	35	33

Strain	Missouri				Neb.	Kansas			Tex.
	Edina	Apple- ton	Portage villeA	Portage villeB	Mead I	Mahat- tan I	Powhat- tan	Colum- bus	Lub- bockI
<u>MATURITY (relative date)</u>									
Cutler 71	*	*	9-3	9-20	10-6	10-2	9-27	9-23	9-16
Kent			+4	+8	0	+2	+6	+4	+5
A72-512			+1	+6	-1	0	-1	+2	+2
C1518			0	+5	-1	+2	+2	+2	+3
C1520			-1	+3	-2	-1	+1	+3	+4
L70L-2912			0	+1	-3	-4	-3	-3	+3
L70L-3048			+5	+5	-4	+3	+2	0	+9
L71L-554			+1	+4	-1	+2	+5	+2	+2
L71L-556			+2	+4	-1	+4	+5	+3	+7
L72A-89			-5	-1	-3	-5	-3	-1	+1
Williams (III)					-2	-8	-5	+3	-7
Essex V			+28	+19				+13	+31
Date planted	5-23	5-15	5-5	5-19	5-16	5-6	5-15	5-28	5-27
+Dys. to mat.			121	124	143	149	135	118	112
<u>LODGING (score)</u>									
Cutler 71	1.4	1.6	1.2	1.8	1.5	1.6	1.0	1.0	2.5
Kent	1.6	1.3	1.3	1.8	1.5	2.0	1.0	1.0	1.5
A72-512	2.8	2.4	3.8	2.3	2.7	4.2	1.0	1.0	3.0
C1518	2.2	1.3	2.2	1.8	1.7	3.6	1.0	1.0	2.2
C1520	1.4	1.4	1.7	2.2	1.1	2.9	1.0	1.0	1.5
L70L-2912	1.3	1.3	2.0	2.3	1.5	2.9	1.0	1.0	2.3
L70L-3048	2.3	1.6	2.2	1.8	1.5	2.8	1.0	1.0	1.7
L71L-554	2.0	1.8	2.2	2.7	2.0	2.9	1.0	1.0	2.2
L71L-556	2.0	1.8	2.2	2.8	1.5	2.9	1.0	1.0	2.5
L72A-89	1.3	1.8	2.0	2.0	1.1	1.7	1.0	1.0	1.7
<u>PLANT HEIGHT (inches)</u>									
Cutler 71	32	30	33	31	40	49	33	19	34
Kent	29	28	33	34	39	47	28	21	33
A72-512	33	32	36	33	45	53	36	21	33
C1518	36	33	38	34	43	54	34	21	38
C1520	31	29	32	33	39	51	30	21	35
L70L-2912	32	29	35	34	38	52	31	21	35
L70L-3048	33	31	35	33	39	49	33	21	36
L71L-554	31	31	31	36	40	47	30	21	35
L71L-556	32	30	32	37	39	47	31	21	33
L72A-89	33	31	28	30	39	46	32	21	32

Strain	East	Pa.	NJ	Del.	Maryland			Va.
	Coast	Landis-	Adel-	George-	Clarks-	Queens-	Princess	Orange
	Mean	ville	phia	town I	ville	town	Ann	
	7 Tests	<u>SEED QUALITY (score)</u>						
Cutler 71	2.3	2.2	2.3	2.3	2.5	2.5	2.5	1.7
Kent	2.2	2.0	2.0	2.5	2.0	2.5	2.2	2.0
A72-512	2.9	3.0	2.8	2.9	2.3	3.0	2.5	3.7
C1518	3.4	3.0	3.3	3.5	3.5	3.2	2.8	4.3
C1520	2.9	3.3	2.5	3.0	2.8	2.7	3.5	2.7
L70L-2912	2.4	2.4	3.5	2.3	2.0	2.0	2.3	2.0
L70L-3048	2.8	2.4	2.5	3.0	2.7	3.0	2.5	3.3
L71L-554	2.4	2.3	2.3	2.8	2.0	2.0	2.0	3.3
L71L-556	2.2	2.2	2.0	2.6	2.5	2.0	2.2	2.0
L72A-89	2.7	2.8	2.8	2.3	2.5	2.5	3.0	2.7
	6 Tests	<u>SEED SIZE (g/100)</u>						
Cutler 71	19.5	20.3	20.3		20.7	19.5	18.2	18.2
Kent	19.6	20.7	20.3		21.4	19.4	18.1	17.8
A72-512	16.0	16.3	15.4		17.0	17.0	15.1	15.1
C1518	17.5	18.4	16.4		19.6	17.5	16.7	16.5
C1520	18.4	18.9	17.8		20.1	18.4	17.4	17.6
L70L-2912	15.2	15.5	14.0		16.6	16.9	13.9	14.5
L70L-3048	17.2	17.1	15.2		18.9	18.4	16.7	16.7
L71L-554	18.4	19.1	17.6		20.3	18.4	17.9	17.4
L71L-556	18.9	19.8	18.7		20.7	18.7	17.7	17.7
L72A-89	18.9	19.2	19.5		20.0	19.4	17.4	17.9
	2 Tests	<u>PROTEIN (%)</u>						
Cutler 71	42.2			42.9	42.4			
Kent	42.2			43.2	41.2			
A72-512	41.6			42.4	40.9			
C1518	41.5			41.8	41.2			
C1520	42.6			43.7	41.4			
L70L-2912	43.8			44.2	43.5			
L70L-3048	42.8			43.4	42.3			
L71L-554	44.5			45.3	43.7			
L71L-556	44.2			44.7	43.8			
L72A-89	42.0			43.5	40.6			
	2 Tests	<u>OIL (%)</u>						
Cutler 71	20.4			20.3	20.5			
Kent	20.6			20.3	20.9			
A72-512	20.9			21.4	20.4			
C1518	20.2			21.0	19.4			
C1520	20.0			20.2	19.9			
L70L-2912	20.0			20.0	19.9			
L70L-3048	20.6			21.5	19.8			
L71L-554	19.1			19.1	19.1			
L71L-556	19.3			19.8	18.8			
L72A-89	20.8			20.2	21.3			

UNIFORM TEST IV, 1975

Strain	Central Mean	Ohio	Indiana			Ky.	Illinois			
		Colum- bus	Lafay- ette	Sulli- van	Evans- ville	Hender- son	Browns- town	Belle- ville	Eldo- rado	Carbon- dale
19 Tests		SEED QUALITY (score)								
Cutler 71	2.3	1.0	1.5	1.5	3.0	2.0	2.8	2.3	3.3	2.0
Kent	2.2	1.0	1.0	1.5	2.0	2.0	2.0	1.8	3.5	2.0
A72-512	2.5	1.0	1.5	1.5	3.5	3.0	1.5	3.2	3.5	2.0
C1518	2.7	1.0	1.5	1.5	3.5	3.0	2.0	3.8	4.2	2.0
C1520	2.8	1.0	1.5	1.5	4.0	3.0	2.5	3.3	4.2	3.0
L70L-2912	2.0	1.0	1.0	1.0	2.5	1.0	1.5	1.7	2.2	2.0
L70L-3048	2.4	1.0	1.5	1.5	3.0	2.0	2.0	2.8	2.7	3.0
L71L-554	2.3	1.0	1.0	1.0	3.0	3.0	2.0	2.7	3.2	2.0
L71L-556	2.2	1.0	1.5	1.0	2.5	2.0	2.3	2.7	3.0	2.0
L72A-89	2.5	1.0	1.5	1.5	2.5	2.0	3.0	2.7	3.5	2.0
17 Tests		SEED SIZE (g/100)								
Cutler 71	18.0	18.9	19.6	17.1	19.1	19.0	14.9	18.0	18.2	20.5
Kent	17.8	18.8	17.8	19.1	18.7	16.6	16.0	17.5	19.4	20.1
A72-512	15.1	15.3	17.6	13.4	16.2	15.9	11.3	14.5	15.3	17.0
C1518	15.0	16.3	16.8	14.1	16.4	16.4	11.1	14.9	16.8	17.9
C1520	17.1	18.4	18.7	17.0	18.5	18.6	12.4	16.3	18.0	19.6
L70L-2912	14.0	15.3	14.0	13.7	15.2	14.4	11.6	13.7	13.9	16.4
L70L-3048	15.7	16.9	16.4	15.5	16.4	17.0	14.1	16.4	15.8	18.0
L71L-554	17.0	18.5	17.7	17.1	17.7	16.9	14.0	16.7	17.1	19.0
L71L-556	17.1	18.9	18.0	17.8	17.9	16.2	15.2	17.2	17.0	19.6
L72A-89	17.5	18.9	18.4	17.1	19.8	18.4	12.6	18.8	18.1	20.7
9 Tests		PROTEIN (%)								
Cutler 71	41.2	41.8		42.5	41.3			40.9	41.7	
Kent	41.1	42.0		41.7	41.5			41.2	42.3	
A72-512	40.5	40.8		42.2	41.4			39.7	41.6	
C1518	39.7	40.7		40.6	39.5			39.4	40.4	
C1520	41.4	41.5		43.2	42.7			41.4	41.8	
L70L-2912	41.8	41.6		44.4	42.6			40.4	42.7	
L70L-3048	40.7	40.3		43.1	41.8			39.7	42.1	
L71L-554	43.4	42.6		45.9	43.9			44.3	44.2	
L71L-556	43.1	43.4		44.1	42.5			43.5	44.5	
L72A-89	40.6	41.5		41.4	41.3			40.3	40.6	
9 Tests		OIL (%)								
Cutler 71	21.2	19.5		21.7	22.3			21.6	22.1	
Kent	21.0	19.3		21.7	21.5			21.0	21.7	
A72-512	21.7	20.3		22.8	21.9			23.3	22.1	
C1518	21.1	19.0		22.5	22.0			22.0	22.5	
C1520	21.0	19.8		22.0	21.6			21.6	21.7	
L70L-2912	20.5	19.4		20.3	20.4			21.8	21.1	
L70L-3048	21.8	20.1		22.7	22.2			22.9	22.3	
L71L-554	19.9	18.8		20.8	20.3			19.8	20.7	
L71L-556	20.1	18.2		20.9	21.1			20.6	20.7	
L72A-89	21.5	19.6		22.1	21.8			22.4	22.5	

Iowa		Missouri			Neb.	Kansas			Tex.
Ottumwa	Edina	Apple- ton	Portage villeA	Portage villeB	Mead I	Manhat- tan I	Powhat- tan	Colum- bus	Lub- bockI
<u>SEED QUALITY (score)</u>									
1.0	2.5	4.0	2.5	2.5	1.1	1.9	2.1	2.9	3.0
1.1	2.3	4.0	2.5	3.5	2.0	2.1	2.3	3.0	2.5
1.2	3.0	4.0	3.0	4.0	1.7	2.4	2.1	3.0	2.5
2.0	4.0	4.0	3.0	3.5	1.7	2.7	2.5	3.3	2.5
1.8	3.0	4.0	3.0	3.0	1.7	2.4	2.6	3.7	4.0
1.0	2.5	4.0	3.0	2.0	1.8	2.1	1.9	2.8	2.5
2.4	2.5	4.0	2.5	3.5	2.0	2.0	2.0	3.0	2.5
1.0	2.0	4.0	2.5	3.5	1.7	1.9	2.1	3.2	2.2
1.0	1.8	4.0	2.5	3.5	1.2	2.2	2.0	3.2	2.5
1.6	4.0	4.0	3.0	3.0	1.3	1.9	2.3	3.2	2.7
<u>SEED SIZE (g/100)</u>									
21.7			17.3	16.4	15.5	19.2	15.4	15.4	19.7
21.4			17.8	16.3	14.1	16.7	16.4	15.7	20.0
17.0			15.8	16.0	12.7	16.6	12.5	12.4	16.5
15.0			14.6	13.9	12.0	16.1	13.2	12.5	17.0
17.2			17.3	16.6	14.1	17.4	14.3	15.1	20.4
15.4			13.9	13.4	12.1	15.0	12.6	12.5	15.4
16.3			15.1	15.1	13.1	16.3	13.7	13.7	16.9
20.2			17.1	16.5	14.4	16.8	15.9	15.1	19.0
19.4			16.1	16.9	14.7	17.0	15.1	15.0	19.3
17.7			16.1	16.0	14.8	18.6	16.4	15.7	19.9
<u>PROTEIN (%)</u>									
42.4					39.0	41.4	39.6		
42.5					38.3	40.2	40.1		
41.2					37.8	42.4	37.6		
40.6					37.1	40.8	38.3		
42.1					38.0	42.3	40.0		
41.6					39.4	42.3	41.5		
40.4					38.2	40.6	39.7		
44.5					40.2	44.1	41.1		
44.7					40.4	42.8	41.8		
41.9					38.1	40.8	39.4		
<u>OIL (%)</u>									
20.4					21.1	21.2	20.9		
20.3					21.3	22.0	20.1		
20.4					21.2	20.8	22.9		
19.9					20.8	20.3	20.9		
19.8					21.3	20.8	20.8		
20.2					20.6	21.0	19.7		
20.5					21.4	22.4	21.9		
18.9					20.0	19.6	20.4		
18.5					20.5	20.6	19.7		
20.2					21.7	21.6	21.4		

Strain	Parentage	Line
1. Cutler 71		
2. Kent		
3. A74-302029	Corsoy x Cutler 71	F ₄
4. A74-303009	Md62-3223 x M62-177 (M387 x M406)	" ₄
5. A74-303012	Corsoy x Williams	"
6. A74-303023	M59-120 (II-54-240 x II-54-139) x L66L-137	"
7. A74-303027	Corsoy x Williams	"
8. A74-303033	M61-96 (Merit x Harosoy) x Williams	"
9. A74-304001	Swift x Wye	"
10. A74-304010	TVR Ex4428 x Md66-1258 (2nd cycle intermates)	"
11. A74-304023	" "	"
12. A74-304031	Wells x Wye	"
13. A74-305021	AP68-315 x C1453 (C1266R x C1253)	"
14. A74-306003	M63-17 (M402 x M406) x C1453	"
15. A74-306008	M62-275 (Norchief x Harosoy) x L66L-144	"
16. K1016	Williams x Columbus	"
17. K1017	L66L-140 (Wayne x L57-0034) x Columbus	"
18. K1018	" "	"
19. K1019	Williams x Columbus	"
20. L69U63-6-3	L12A (Clark 63 x L11) x Beeson	F ₅
21. L69U84-19-1	Cutler x Beeson	" ₅
22. L71L-1521	R62-659 x L62-535 (Harosoy-dt ₁)	"
23. L72A-78	Cutler x Beeson	F ₆
24. L73-4124	D66-12392 x L69L-3 (Clark-dt ₁ E ₁ t e ₂ x Harosoy-dt ₁)	F ₅
25. L73-4987	L66L-154 (Wayne x L57-0034) x Amsoy 71	" ₅
26. L73-7103	L66L-1322-1 (Hawkeye x Lee) x L66-2004 (Clark ³ x Peking)	F ₇
27. Md70-2221	3rd cycle intercross, 8-parent diallel**	F ₄

** Adams, Lincoln, Perry, Wabash, C799, C985, L46-1503, FC33.243

This test has several strains which are equal in yield or better than Kent. Of these, A74-303012 is 2 bushels higher yielding and matures 10 days earlier than Kent and 5 days earlier than Cutler 71. A74-303012 has good lodging resistance and has high oil content, but is susceptible to phytophthora root rot. The strains K1017, K1018, and K1019 are equal in yield or 1 bushel higher, but mature 5 to 6 days later than Kent and may be better adapted to Group V testing. The strain A74-304031 has the same yield as Kent and matures 3 days earlier. None of the other strains in the test show any distinct advantage over the check varieties for any characteristic evaluated.

Disease Data

Strain	BB	BP	BS	DM	FE ₂	BSR		
	Urbana	Urbana	Lafay.	Sull.	Lafay.	Lafay.	Ames	
	Ill.	Ill.	Ind.	Ind.	Ind.	Ind.	n %	n %
	n	a	n	n	a	n %	stem	plants
Cutler 71	1	3	4	3	1	90	32	60
Kent	1	3	5	1	1	90	43	75
A74-302029	1	4	3	4	3	90	69	95
A74-303009	1	3	5	4	4	100	82	100
A74-303012	2	2	4	4	5	100	75	100
A74-303023	1	3	3	4	5	90	86	100
A74-303027	1	4	3	5	5	60	67	95
A74-303033	1	3	4	5	4	50	71	85
A74-304001	1	3	3	4	4	30	94	100
A74-304010	1	2	3	5	5	50	75	100
A74-304023	2	1	5	5	4	100	79	100
A74-304031	1	3	5	4	1	80	74	100
A74-305021	1	4	5	3	3	10	57	100
A74-306003	1	3	2	5	2	40	73	100
A74-306008	2	3	4	4	5	60	75	100
K1016	2	3	3	3	4	90	76	100
K1017	1	1	2	4	3	50	75	100
K1018	1	1	2	3	3	50	69	100
K1019	2	3	3	3	4	90	69	100
L69U63-6-3	2	2	3	4	4	80	86	100
L69U84-19-1	2	4	4	3	1	90	82	100
L71L-1521	2	1	3	1	2	60	91	100
L72A-78	2	4	4	4	1	80	73	100
L73-4124	1	1	3	4	4	60	90	100
L73-4987	3	1	3	4	5	80	68	100
L73-7103	1	3	3	5	3	50	83	100
Md70-2221	1	3	4	2	2	70	86	100

PRELIMINARY TEST IV, 1975

Disease Data

Strain	PSB	PS	SMV	PR		
	Lafay.	Lafay.	Lafay.	Lafay.	Ames	Vickery
	Ind.	Ind.	Ind.	Ind.	Iowa	Ohio
	d %	a	n seed	a	a	n
Cutler 71	35	5	5E	R	R	4.0
Kent	14	5	5E	S	S	3.0
A74-302029	26	5	5E	S	S	4.0
A74-303009	55	5	3M	S	H	5.0
A74-303012	32	5	3M	S	S	5.0
A74-303023	45	4	5E	S	S	4.5
A74-303027	59	5	5E	S	S	4.5
A74-303033	57	5	2M	R	R	5.0
A74-304001	21	4	5E	H	H	4.0
A74-304010	33	5	5E	S	S	4.0
A74-304023	61	5	5S	S	S	4.0
A74-304031	30	5	1	H	H	5.0
A74-305021	32	5	5S	R	R	3.5
A74-306003	39	5	2M	R	R	4.0
A74-306008	37	5	5E	S	S	3.0
K1016	13	3	5M	S	S	4.5
K1017	23	2	5E	S	S	5.0
K1018	17	4	5E	S	S	4.5
K1019	8	3	5E	S	S	4.5
L69U63-6-3	52	4	5E	R	R	5.0
L69U84-19-1	34	4	5E	S	H	2.5
L71L-1521	27	3	5E	S	S	5.0
L72A-78	48	5	5E	R	R	4.0
L73-4124	5	2	2M	S	S	5.0
L73-4987	21	5	4E	S	S	5.0
L73-7103	23	5	2M	S	S	5.0
Md70-2221	1	4	2M	S	S	5.0

Descriptive and Other Data

Strain	Descriptive Code		Chlorosis	Shattering	
			Ames Iowa	Manhattan Kansas	Portageville Missouri
Cutler 71	PTNBr	SYB1	3	2	3
Kent	PTNBr	IYB1	4	3	2
A74-302029	PGNBr	SYBf+G+Ib	3	2	2
A74-303009	WGNBr	DYBr	2	3	2
A74-303012	PGNBr	SYIb	4	3	4
A74-303023	WTNTn	DYBr	4	4	5
A74-303027	PGNTn	DYG+Y	3	2	4
A74-303033	WTNBr	DYB1+G	4	2	2
A74-304001	P+WTNBr	SYB1	3	3	4
A74-304010	WGNBr	SYBf+Y	3	5	4
A74-304023	PTNBr	DYBf+G	3	4	4
A74-304031	WTNBr	S+DYBf+Ib	3	3	4
A74-305021	PGNBr	SYI	2	3	3
A74-306003	WGNBr	SYI	2	5	5
A74-306008	WGNTn	DYBr	2	3	2
K1016	WTNBr	SYB1	4	1	1
K1017	PTNBr	DYB1	3	1	1
K1018	WTNBr	DYB1	3	1	1
K1019	PTNBr	SYB1	4	1	1
L69U63-6-3	PTNBr	DYI	2	2	2
L69U84-19-1	PTNBr	SYB1	3	4	5
L71L-1521	PTNBr	DYBr	3	1	3
L72A-78	PTNBr	SYB1	2	2	4
L73-4124	PGNTn	DYIb	3	1	1
L73-4987	PTNBr	DYBr	2	2	1
L73-7103	PTNBr	DYB1	3	1	2
Md70-2221	PTNBr	SYB1	2	1	1

PRELIMINARY TEST IV, 1975

Regional Summary

Strain	Yield	Rank	Matu- rity	Lodg- ing	Height	Seed Qual.	Seed Size	Seed Composition	
								Protein	Oil
No. of Tests	9	9	8	9	9	8	7	6	6
Cutler 7I	42.4	20	9-28.0	1.5	39	2.0	18.0	42.0	21.0
Kent	46.2	6	+4.9	1.6	37	2.1	18.1	42.2	20.8
A74-302029	40.9	24	-5.2	1.7	31	3.0	17.3	41.7	21.2
A74-303009	37.6	26	-6.8	1.6	29	2.4	18.9	40.7	21.7
A74-303012	48.4	1	-4.9	1.7	31	1.8	18.8	40.2	23.2
A74-303023	42.1	21	-5.8	2.1	33	2.5	16.5	38.9	22.8
A74-303027	42.7	18	-4.0	2.6	35	1.9	15.0	40.2	21.8
A74-303033	42.5	19	-2.8	1.8	36	1.8	16.7	41.6	22.0
A74-304001	41.4	23	+0.1	1.8	33	2.3	16.6	40.0	22.7
A74-304010	43.5	15	-5.2	2.1	30	2.3	16.0	41.4	21.6
A74-304023	40.7	25	-6.5	2.4	34	2.4	15.9	42.5	20.7
A74-304031	46.5	4	+1.5	1.8	34	1.9	16.4	40.9	22.4
A74-305021	41.9	22	-3.1	1.6	40	1.8	17.3	41.9	21.2
A74-306003	37.5	27	-10.8	1.7	35	2.5	15.4	41.6	22.5
A74-306008	45.2	8	-5.1	1.6	29	2.1	17.1	40.5	22.4
K1016	45.7	7	+11.2	1.9	40	2.1	16.3	41.6	20.5
K1017	47.9	2	+10.1	2.2	40	2.1	18.7	42.4	20.8
K1018	46.8	3	+10.0	2.0	40	1.9	17.3	41.1	21.2
K1019	46.3	5	+11.0	2.2	41	1.9	17.1	42.5	20.1
L69U63-6-3	43.1	17	-0.2	2.2	35	2.1	17.4	42.6	20.8
L69U84-19-1	44.9	9	-2.6	1.6	34	2.1	18.1	42.8	20.3
L71L-1521	43.9	13	-0.1	1.6	30	1.9	17.7	42.3	19.8
L72A-78	43.9	13	-0.1	2.3	41	2.3	17.2	42.1	21.1
L73-4124	44.6	12	+0.8	1.3	28	1.6	15.8	40.7	20.7
L73-4987	44.9	9	+4.4	2.3	42	2.0	16.6	42.2	20.8
L73-7103	43.5	15	-0.1	1.8	31	1.9	17.0	41.6	21.4
Md70-2221	44.7	11	+6.1	1.6	36	1.6	16.8	41.5	21.1

Strain	Del.		Md.		Ohio		Ind.		Ill.		Iowa		Mo.		Kansas	
	George-Clarks		I ville		Colum- bus		Sulli- van		Eldo- rado		Stuart		Ottum- wa		Portage- Manhat- tan I	
	9 Tests		YIELD (bu/a)													
Cutler 71	42 4	41 8	49 4	22 1	29 5	47 9	51 3	42.2	39 1	58 4						
Kent	46 2	42 1	45 4	39 0	31 4	59 2	49 4	46.1	46 0	57 3						
A74-302029	40 9	44 5	47 8	30 6	21 7	44 9	46.5	35.5	32 3	64 5						
A74-303009	37 6	42 3	47 4	18 3	23 0	37 7	46.3	31.8	25 4	65 8						
A74-303012	48 4	53 9	51 5	37 9	33.2	50 8	61 1	38.3	37 2	71 4						
A74-303023	42 1	44 4	47 9	25 1	27 3	45 8	51 7	42.7	38 0	56 0						
A74-303027	42 7	44 8	51 8	21 9	28 7	40 3	49.5	41.9	38 6	66 8						
A74-303033	42 5	46 6	47 3	26 7	23 0	47 9	55 0	41.7	34 1	59 9						
A74-304001	41 4	43 1	41 7	21 0	27.8	42 7	51 7	41.9	39 3	63 2						
A74-304010	43 5	43 7	45 4	32 6	24 8	43 3	53 1	47.0	34 3	67 6						
A74-304023	40 7	38 1	42 1	32 3	28 6	40 0	50 6	43.0	31 5	60 1						
A74-304031	46 5	51 1	52 6	29 2	32 6	49 7	50 7	48.8	40 7	63 3						
A74-305021	41 9	51 4	48 1	24 2	30 1	45 5	49 5	41.4	34 9	52 2						
A74-306003	37 5	43 5	46 7	22 3	17 6	30 1	48 8	37.5	27 0	64 4						
A74-306008	45 2	50 9	47 6	34 3	28 1	45 9	56 8	40.2	37 7	65 4						
K1016	45 7	45 3	46.1	37 4	38.1	57 1	45 4	32.9	51 6	57 0						
K1017	47 9	51 7	44 4	39 4	34 6	57 9	49 9	40.1	55 8	57 1						
K1018	46 8	50 8	47 5	29 7	34 5	53 9	50 2	43.6	50 3	60 7						
K1019	46 3	46 5	43 8	36 2	38.3	62 4	46 7	36.8	47 9	58 0						
L69U63-6-3	43 1	43 7	42 3	18.3	32 2	50 1	50 7	42.5	43 1	64 6						
L69U84-19-1	44 9	42 7	43 5	35 1	36 1	49 6	50 6	39.6	40 1	66 5						
L71L-1521	43 9	49 2	49 7	25 8	29 5	62 3	42 8	41.1	32 8	62 1						
L72A-78	43 9	43 5	44 6	34 4	30 5	47 1	44 6	42.6	40 1	67 6						
L73-4124	44 6	51 6	48 1	22 6	34.5	58 8	46 6	45.8	28 7	64 5						
L73-4987	44 9	52 5	50 5	19 2	35 6	52 1	50 4	39.4	42 3	62 1						
L73-7103	43 5	49 5	46 3	29 4	31 3	50 6	45 6	41.9	35 6	61 3						
Md70-2221	44 7	44 9	49 6	28 1	34 9	55 2	49 5	36.1	48 0	56 0						
C.V. %		3 0	4.8		14.5	3 2	3 6	9.2	37.4	6.4						
L.S.D. (5%)		2 8	4 8		7 4	6 6	3 6	7.7	20.8	8.2						
Row Sp. (in)		30	30	28	30	30	27	27	38	30						
Rows/Plot		4	4	3	3	4	4	4	3	4						
Reps		2	2	2	2	2	2	2	2	2						

PRELIMINARY TEST IV, 1975

Strain	Del.	Md.	Ohio	Ind.	Ill.	Iowa	Mo.	Kansas		
	George- town	Clarks- ville	Colum- bus	Sulli- van	Eldo- rado	Stuart wa	Ottum- Portage- ville	Manhat- tan I		
	9 Tests			YIELD RANK						
Cutler 71	20	26	7	22	16	15	7	10	13	20
Kent	6	25	19	2	12	3	18	3	6	22
A74-302029	24	16	11	11	26	21	22	25	23	9
A74-303009	26	24	14	26	24	26	23	27	27	6
A74-303012	1	1	3	3	9	10	1	21	17	1
A74-303023	21	17	10	18	22	19	5	7	15	25
A74-303027	18	15	2	23	18	24	15	11	14	4
A74-303033	19	11	15	16	24	15	3	14	21	19
A74-304001	23	22	27	24	21	23	5	11	12	13
A74-304010	15	18	20	9	23	22	4	2	20	2
A74-304023	25	27	26	10	19	25	10	6	24	18
A74-304031	4	6	1	14	10	13	8	1	9	12
A74-305021	22	5	9	19	15	20	15	15	19	27
A74-306003	27	20	16	21	27	27	19	22	26	11
A74-306008	8	7	12	8	20	18	2	17	16	7
K1016	7	13	18	4	2	6	25	26	2	24
K1017	2	3	22	1	6	5	14	18	1	23
K1018	3	8	13	12	7	8	13	5	3	17
K1019	5	12	23	5	1	1	20	23	5	21
L69U-63-6-3	17	18	25	26	11	12	8	9	7	8
L69U84-19-1	9	23	24	6	3	14	10	19	10	5
L71L-1521	13	10	5	17	16	2	27	16	22	14
L72A-78	13	20	21	7	14	17	26	8	10	3
L73-4124	12	4	8	20	7	4	21	4	25	9
L73-4987	9	2	4	25	4	9	12	20	8	14
L73-7103	15	9	17	13	13	11	24	11	18	16
Md70-2221	11	14	6	18	5	7	15	24	4	25

Strain	Del.		Md.		Ohio		Ind.		Ill.		Iowa		Mo.		Kansas	
	Mean	George-Clarks-I	town	ville	bus	Colum-	Sulli-	van	Eldo-	rado	Stuart	wa	Ottum-Portage-	ville	Manhat-	tan I
	8 Tests		<u>MATURITY (relative dates)</u>													
Cutler 71	9-28.0	9-22	10-14	10-20	9-25	9-12	10-6	*	9-4	10-1						
Kent	+4.9	+7	+4	-1	+9	+12	+2		+4	+2						
A74-302029	-5.2	-4	-9	0	-11	-3	-6		-3	-6						
A74-303009	-6.8	-4	-9	-1	-11	-6	-8		-8	-7						
A74-303012	-4.9	-1	-10	0	-9	-2	-2		-5	-10						
A74-303023	-5.8	-2	-10	+2	-7	-5	-6		-8	-10						
A74-303027	-4.0	-2	-6	0	-3	-4	-4		-4	-9						
A74-303033	-2.8	+2	-10	0	-1	-1	-2		-5	-5						
A74-304001	+0.1	+5	-3	0	+3	-2	-5		0	+3						
A74-304010	-5.2	-4	-6	+2	-11	-2	-6		-3	-12						
A74-304023	-6.5	-4	-10	+3	-11	-6	-6		-6	-12						
A74-304031	+1.5	+5	-4	+4	+5	+5	-2		+1	-2						
A74-305021	-3.1	0	-10	+1	-3	-3	-2		-2	-6						
A74-306003	-10.8	-4	-13	+1	-15	-14	-9		-12	-20						
A74-306008	-5.1	-2	-9	+1	-5	-3	-6		-4	-13						
K1016	+11.2	+12	+7	0	+15	+23	+4		+16	+13						
K1017	+10.1	+12	+6	+1	+12	+20	+4		+12	+14						
K1018	+10.0	+10	+5	+5	+11	+20	+4		+13	+12						
K1019	+11.0	+12	+6	0	+12	+24	+4		+16	+14						
L69U63-6-3	-0.2	-2	-2	+2	+3	+3	-1		0	-5						
L69U84-19-1	-2.6	-4	-6	-1	-1	-2	-2		-1	-4						
L71L-1521	-0.1	0	+1	-3	+3	+5	+1		-5	-3						
L72A-78	-0.1	-3	-3	0	+1	+7	-2		0	-1						
L73-4124	+0.8	-1	-1	+2	+2	+7	+3		-1	-5						
L73-4987	+4.4	+5	+1	+2	+6	+11	+2		+2	+6						
L73-7103	-0.1	+2	-5	0	+3	+4	0		-6	+1						
Md70-2221	+6.1	+5	+4	0	+8	+14	+1		+8	+9						
Williams (III)		0	-8	+1	+4	0	+2			-7						
Essex (V)		+25	+18			+33										
Date planted	5-17	5-27	6-11	5-15	5-19	5-18	5-17	5-15	5-5	5-6						

