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Soybeans, 1993 Variety Recommendations (1992 Crop Performance Trials)

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Soybeans

1993 Variety Recommendations

(1992 Crop Performance Results)

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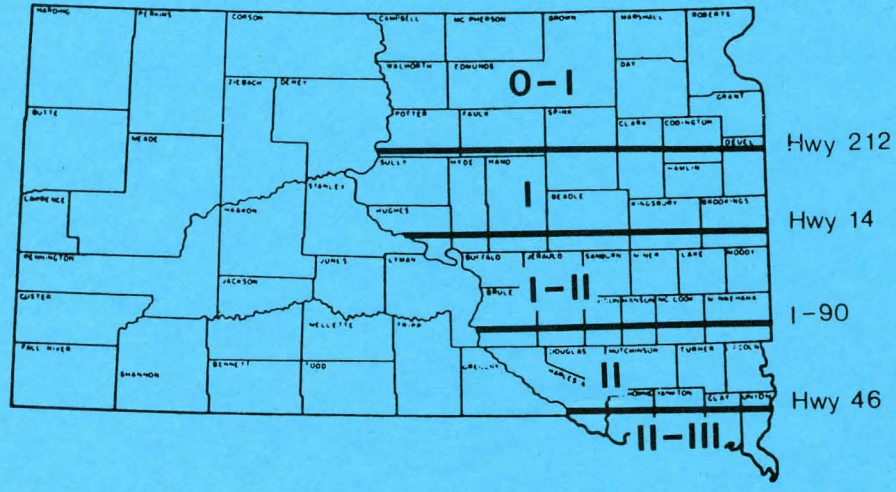
1993 Soybean Variety Recommendations

These recommendations are based on data and information obtained from the South Dakota Crop Performance Testing Program and other regional nurseries maintained by land-grant colleges in the Midwest. Variety performance is dependent on genetics and environment. Environmental factors such as temperature, moisture, plant pests, soil fertility, soil type, and the farmer's management practices influence variety performance. Note that the performance of recommended varieties in response to environmental conditions is generally better than the performance of other varieties. However, the better performance of the recommended variety cannot be guaranteed due to complex variety-by-environmental interactions.

Phytophthora root rot (PRR) has become an important soybean disease in South Dakota. The disease can be tolerated through the use of resistant varieties. However, the resistance to Phytophthora root rot is fungus-race specific. This means that resistance to one race does not necessarily give resistance to other races of this disease. It is helpful to have some knowledge of the PRR races of fungus found in your area. If a field has PRR and the specific race(s) involved is unknown, then a reaction of (R,R,R) is strongly suggested. Resistance to specific races of PRR for each variety is indicated in each yield table. To be considered for the "recommended" list a variety must have resistance to at least one race of PRR.

An alternative method of control is the use of "tolerant varieties." Tolerant varieties are not resistant in the seedling stage. They must be protected by a Phytophthora specific fungicide (such as metalxyl). Presently, we have no information on the field tolerance of varieties adapted to this region. Therefore, no field tolerance ratings are given in the tables.



Recommended Brand, Variety, PRR Reaction		Acceptable/Promising Brand, Variety, PRR Reaction	
Maturity Group - O			
Arrowhead, 8450	(R,X,X)*	Dekalb, CX096	(R,S,S)
Public, Dawson	(R,S,S)	Pioneer, 9091	(S,X,X)
Public, Glenwood	(R,S,S)		
Interstate, IS546	(R,S,S)		
Sigco, 80	(R,S,S)		
Public, Simpson	(R,S,S)		
Mustang, M-1000	(R,S,S)		
Mustang, M-1050	(R,S,S)		
Maturity Group - I			
Public, Bert	(R,S,S)	Arrowhead, 8500	(S,S,S)
Public, BSR 101	(R,S,S)	Arrowhead, 8600	(S,M,X)
Public, Hardin	(R,S,S)	Public, Bell	(S,S,H)
Public, Kasota	(R,R,S)	Dekalb, CX117	(S,S,S)
Public, Kato	(R,S,S)	Terra, Flag	(S,S,S)
Public, Leslie	(R,S,S)	Mustang, M-1140	(S,S,S)
Public, Parker	(R,S,S)	Mustang, M-1150	(S,S,S)
Public Sibley	(R,S,S)	Pioneer, 9111	(S,X,S)
Public, Weber	(R,S,S)	Pioneer, 9162	(S,X,X)
		Sigco, 94	(S,S,S)
		Terra, Runner III	(X,X,X)
Maturity Group - II			
Public, Century 84	(R,R,R)	Diamond D200	(S,S,S)
Public, Chapman	(R,R,R)	Diamond D210	(S,S,S)
Public, Sturdy	(R,S,S)	Public, Kenwood	(S,S,S)
		Public, Marcus	(S,S,S)
		Pioneer, 9241	(S,S,S)
		Sands SOI 287	(S,S,S)

*Indicates reaction to races-1, -3, and -4, respectively.
R = resis.,
S = susc.,
M or H = mixture,
X = unknown reaction.

SOYBEANS

1992 South Dakota Variety Characteristics and Yield Data

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Robert G. Hall, Extension agronomist - crops/manager - crop testing
Paul D. Evenson, statistician

Successful soybean production is affected greatly by variety selection for a given growing area. This publication contains variety recommendations, descriptions, and yield data for soybeans.

Important factors in variety selection include: yield, maturity, plant height, lodging resistance, and Phytophthora root rot resistance (see SDSU Soybean Traits Evaluated--All Entries, page 2). In the case of public varieties, additional information is available which may aid you in variety selection. Such information includes relative maturity, emergence, shattering, and iron chlorosis scores (see Regional Soybean Traits Evaluated--Public Entries, pages 2-3).

Variety Recommendations

Variety recommendations (inside cover) are made annually by the Plant Science Department Variety Release/Recommendation Committee. Recommendations for a given variety may vary from one maturity zone to another. Maturity zones (see map) are based on day length. Soybean varieties are recommended on basis of growing season, average rainfall, disease frequency, and farming practices that are common to a given maturity zone.

It is important to note that soybean varieties are classified according to various maturity groups. Maturity grouping is greatly influenced by latitude. Consequently, maturity group-00 varieties are best suited to Canada and extreme northern regions of the U.S., while maturity group-0, group-I, group-II, and early group-III varieties are suited to South Dakota, and group-IV through group-VIII varieties are suited to southern Iowa, Nebraska, and southward into the Gulf States. Early group-III varieties should be limited to southern Union County.

For some maturity zones, there may be transition areas where varieties of two maturity groups may perform similarly. In most cases, an earlier maturity group may be seeded in a zone suited to a late maturity group. Generally, this is only practical where seeding has been delayed or some type of double cropping is used.

Farm location and management skills in one maturity zone often resemble those in another zone. Therefore, note this fact when considering these recommendations.

A variety, either public or private, must be evaluated according to the minimum requirements discussed in Recommendation Procedures (page 2) before it is eligible for recommendation.

Varieties are classified as "recommended," or "acceptable/promising." Varieties listed as "recommended" have exhibited a high level of performance. Those listed as "acceptable/promising" have either performed well but do not merit the "recommended" list or are new varieties which have shown a high performance level but have undergone limited testing.

Certified seed is the best source of seed and the only way to be assured of the genetic purity of the variety seeded. In addition, inoculation of seed with the appropriate nitrogen-fixing bacterium is a good fundamental practice. Inoculation generally is needed if soybeans are seeded in soils not previously cropped with soybeans. On soils previously cropped to soybeans there is no guarantee that beneficial bacteria will be present to naturally inoculate planted seed. Therefore, inoculation of seed at planting is an inexpensive means of increasing the percentage of plants that will fix nitrogen in the current crop year.

Yield

All yield information is obtained from the South Dakota Crop Performance Testing Program. Current-year yields for varieties tested are included for each test location. In addition, 3-year averages are included where varieties have been tested for three or more years. All yields, averages, and least significant difference (LSD) values located at the bottom of each yield column for each location are rounded to the nearest tenth of a bushel per acre. Use the LSD value to evaluate whether the yielding potential differs among varieties.

The LSD value refers to the smallest yield difference required to determine whether varieties differ in yield. For example, variety A yields 30, variety B yields 25, and the yield LSD value equals 4 bushels per acre. The yield

difference equals 5 bushels per acre which is greater than the 4 bushel per acre LSD value. Therefore, variety A is a higher yielder than variety B. If the difference had been 3 instead of 5 bushels per acre; then variety A and B would have been similar in yield because their yield difference (3) was less than the LSD value (5).

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LSD values are useful in detecting the best-yielding varieties. In each yield column, the respective LSD value was used to calculate the minimum best value indicated at the bottom of each yield column. Within a yield column, varieties yielding equal to or higher than this minimum value are the best yielders.

The Variety Release/Recommendations Committee consists of Plant Science Department personnel from the research, Extension, and public service divisions within the department.

The efforts of K.K. Kirby, D. Huber, R. Scott, and L. Leichtnam at Brookings; J. Smolik and L. Evjen at the N.E. Research Farm; D. Beck at the Dakota Lakes Research Farm; and the staff at the S.E. Research Farm in obtaining the soybean data; the comments regarding Phytophthora root rot races, race resistance, and tolerance by department plant pathologists; and the typing of this publication by Donna Peterson are gratefully acknowledged.

Protein and Oil Content

Protein and oil data for 1992 are not reported in this publication. Late harvest and the need to conduct lengthy recalibration of laboratory instrumentation, as a result of the cool growing season, prevented including protein and oil data if this publication was to be completed in a timely manner.

General Test Procedures

Recommendation Procedures: Recommendations of both public and private varieties are based on a minimum of 3 years and 5 location-years for variety, yield, moisture, and maturity. The variety characteristics of height, protein, oil content, disease reactions, and lodging are considered when information is available.

Test Procedures: Standard 30-inch row spacings are used at all locations. The no-till irrigated test at Dakota Lakes consisted of seeding into 6- to 8-inch wheat stubble with 30-inch row spacings. The no-till test at Frankfort included seeding 30-inch rows into corn stubble. Adjustments in seeding rates, on a pure-live-seed basis, are made to attain a final population of 150,000 plants per acre for all varieties and locations. All test plots consist of 2-row plots, 17 feet long, with three replications. Soybean inoculation was accomplished by applying Nitragin Soybean Soil Implant down the seed tube, according to label instructions and rates, during seeding. This product is a granular inoculant. Herbicides and fertilization were dependent on each farm cooperator. Three replications of a variety were harvested at each location.

SDSU Soybean Traits Evaluated--All Entries

Yield: Plots are harvest at 15% seed moisture or less and dried. Yields are calculated on a 13% moisture content basis and expressed in bushels per acre.

Maturity: Entries are considered mature when 95% of the pods have turned brown.

Height: Height is measured from soil surface to top node of the main stem.

Lodging Score: Scores at maturity are based on average erectness of the main stem of plants within variety and location. 1 = all plants erect, 2 = slight lodging, 3 = lodging at a 45 degree angle, 4 = severe lodging, and 5 = all plants flat.

Seeds per Pound: This value is obtained by taking a one-pound sample of seed from one plot at each location and counting the number of seeds with a seed counter. This value is included in the table data to show how much variation in seed size or seed number there is at a given location. Do not use this number as an absolute seed number for a given variety because this value may vary significantly from one location to another.

Phytophthora: Resistance of entries to races are supplied by the respective commercial seed company (proprietary entries) or obtained from the USDA, Uniform Soybean Tests, Northern States (public entries). Entries were designated as R = all plants resistant, S = all plants susceptible, M or H = mixture of resistant and susceptible plants, and X = data not available.

Regional Soybean Traits--Public Entries

Regional evaluations of public soybean variety characteristics are conducted annually and reported by USDA as the Uniform Soybean Test, Northern States (Table 1). Character evaluations and locations include maturity (Brookings, SD), emergence (Ames, IA), shattering (Manhattan, KS), and iron chlorosis (Rosemount - Group O, Waseca - Group - I and II, and Lamberton - Group III, MN). A discussion of these characteristic evaluations follows.

Maturity: Date when 95% of the pods have ripened. Maturity is reported as the number of days that a variety is earlier (-) or later (+) than Kenwood.

Emergence: Indicates the percentage of seeds which emerge after 12 days from a 4 1/2-inch depth in sand maintained at 77^0 F. Scores include 1 = more than 85% emerged, 2 = 70-84% emerged, 3 = 45-69% emerged, 4 = 20-44% emerged, and 5 = 0-19% emerged. A score of 4 or 5 indicates the variety exhibits slow emergence. Such a score does not mean the variety will perform poorly or yield less than varieties with higher emergence scores; however, it does mean that it will take longer for that variety to emerge from the soil.

Shattering: Indicates the percentage of pods that are open and have shattered 2 weeks after reaching maturity. Scores include 1 = no shattering, 2 = 1-10% shattered, 3 = 11-25% shattered, 4 = 26-50% shattered, and 5 = over 50% shattered.

Iron Chlorosis: Susceptibility is evaluated on sites with high pH soils and range from 1 = little or no yellowing to 3 = moderate yellowing to 5 = severe yellowing.

PERFORMANCE TRIAL RESULTS

WILMOT:

Group-0 varieties had to average 41.2 bushels or higher in 1992 or 45.2 bushels or higher for 1990-92 to be in the best yield group. In 1992 the varieties in sequence from Stine 0380 down to Mustang M-1050 were in the best yield group. Over the longer 1990-92 term, 11 varieties (those yielding 45.2 bushels or higher) are in the best yield group.

Group-I varieties had to average 41.6 or higher in 1992 to be in the top yield group. In 1992 the varieties in sequence from Golden Harvest H-1196 down to Weber were in the best yield group. Over the 1990-92 period there are no significant differences in yield among the varieties tested.

FRANKFORT, NO-TILL TRIAL:

Group-0 varieties had to average 30.5 bushels or higher in 1992 to be in the best yield group. This year the varieties in sequence from Sigco 74 down to IS546 were in the best yield group.

Group-I varieties had to average 32.6 bushel or higher in 1992 to be in the top yield group. In 1992 the varieties in sequence from Parker down to Northrup King S 12-22 were in the best yield group. There are no three-year averages at this location because 1992 was the first year in this test trial.

WATERTOWN (NE RESEARCH FARM):

Group-0 varieties had to average 29.1 bushels or higher in 1992 to be in the best yield group. In 1992 the varieties in sequence from Arrowhead EXP-92 down to Mustang M-1050 were in the best yield group. Over three years, 15 varieties (those yielding 33.2 bushels or higher) are in the best yield group.

Group-I varieties had to average 26.7 bushels or higher in 1992 to be in the best yield group. In 1992 the varieties in sequence from Diamond SC134 down to Parker were in the best yield group. Over the last three years, 17 varieties (those yielding 33.7 bushels or higher) are in the best yield group.

BROOKINGS (SDSU AGRONOMY FARM):

Group-0 varieties had to average 42.8 bushels or higher in 1992 to be in the best yield group. In 1992 the varieties in sequence from Mustang M-1050 down to Simpson are in the best yield group. Over a longer three-year term, nine varieties (those yielding 44.1 bushels or higher) are in the top yield group.

Group-I varieties had to average 44.6 bushels or higher in 1992 to be in the best yield group. In 1992 the varieties in sequence from Kruger K1313 down to Arrowhead 8600 were in the best yield group. Over the 1990-92 period, 13 varieties (those yielding 45.3 bushels or higher) are in the best yield group.

Group-II varieties had to average 43.9 bushels or higher in 1992 to be in the top yield group. In 1992 the varieties in sequence from Kruger K2525 down to Prairie Brand PB225 were in the best yield group. Over the 1990-92 period, eight varieties (those yielding 41.5 bushels or higher) are in the top yield group.

Varieties in the **late-seeded group-0 test** had to average 20.6 bushels or higher in 1992 to be in the best yield group. The varieties in sequence from Dassel down to Dairyland DSR-045 are in the best yield group in 1992. Over the longer term (1990-92), there are no significant differences among the varieties tested.

DAKOTA LAKES RESEARCH FARM (Pierre), IRRIGATED, NO-TILL TRIAL:

Group-I varieties had to average 32.6 or higher to be in the best yield group in 1992. In 1992 the varieties in sequence from Arrowhead 8500 down to Kasota are in the best yield group. Over the longer term (1990-92), 11 varieties (those yielding 38.4 bushels or higher) are in the best yield group.

Group-II varieties had to average 32.3 varieties to be in the best yield group in

1991. In 1992 the varieties in sequence from Northrup King S 20-20 down to Mustang M-1200 are in the best yield group. There are no significant differences among the varieties tested from 1990-92.

SIOUX FALLS:

Group-I varieties had to average 42.8 bushels or higher to be in the best yield group in 1992. In 1992 the varieties in sequence from Kruger K1919 down to Sands SOI 166 are in the best yield group. Over the longer term (1990-92), 17 varieties (those yielding 33.4 bushels or higher) are in the best yield group.

Group-II varieties had to yield 49.2 bushels or higher in 1992 to be in the best yield group. The varieties in sequence from Yield King K2525 down to Mustang M-1200 are in the best yield group in 1992. Over the longer term (1990-92), nine varieties (those yielding 36.4 bushels or higher) are in the best yield group.

FREEMAN:

Group-I varieties had to average 43.3 bushels or higher in 1992 to be in the best yield group. The varieties in sequence from BSR 101 down to Hardin were in the best yield group in 1992. Over the last three years, 10 varieties (those yielding 27.2 bushels or higher) are in the best yield group.

Group-II varieties had to yield 48.1 bushels or higher in 1992 to be in the best yield group. The varieties in sequence from Midwest Genetics G2410 down to Kruger K2707 are in the best yield group in 1992. There are no significant differences among the varieties tested over the longer three-year period.

BERESFORD (SE RESEARCH FARM):

Group-I varieties had to yield 52.1 bushels or higher in 1992 to be in the best yield group. The varieties in sequence from Golden Harvest H-1196 down to Pioneer 9162 are in best yield group in 1992. Over the last three years, seven varieties (those yielding 41.9 bushels or higher) are in the best yield group.

Group-II varieties had to yield 60.7 bushels or higher in 1992 to be in the best yield group. The varieties in sequence from Asgrow A2242 down to Profiseed PS2700 are in the best yield group in 1992. Over the last three years, 11 varieties (those yielding 42.8 bushel or higher) are in the best yield group.

ELKPOINT:

Group-I varieties had to yield 49.6 bushels or higher in 1992 to be in the best yield group. The varieties in sequence from Terra TS175 down to Weber are in the best yield group. Over the last three years, 10 varieties (those yielding 45.6 bushels or higher) are in the best yield group.

Group-II varieties had to average 54.8 bushels or higher in 1992 to be in the top yield group. The varieties in sequence from Kruger K2777 down to Pioneer 9232 are in the best yield group in 1992. Over the past three years, 11 varieties (those yielding 53.1 bushels or higher) are in the best yield group.

Group-III varieties had to yield 47.4 bushels or higher in 1992 to be in the best yield group. The varieties in sequence from Kruger K3003 down to Ciba 3311 are in the top yield group in 1992. Over the last three years, there are no significant yield differences among the varieties tested.

Table 1. Some characteristics of the public soybean varieties included in the 1992 South Dakota crop performance tests (data obtained from the Uniform Soybean Tests -- Northern States).

Variety	Maturity		Score		
	Days	Group	Emergence	Shattering	Iron Chlorosis
McCall	-24	00	1*	1*	2.8*
Agassiz	-19	0	4	3	1.8
Ozzie	-15	0	5	1	2.6
Evans	-14	0	1	2	2.8
Dawson	-12	0	1	1	1.6
Swift	-12	0	2	3	2.7
Simpson	-11	0	1	2	2.8
Lambert	-11	0	3		1.0
Glenwood	-11	0	2	1	3.0
Dassel	-9	0	3	1	3.5
Sibley	-6	I	2	1	4.0
Alpha	-5	I	1	1	1.8
Parker	-5	I	5		
Kasota	-4	I	2	1	3.0
Hardin	-3	I	1	1	3.8
Leslie	-2	I	5	1	3.1
BSR 101	-2	I	1	2	3.2
Kato	-2	I	3	1	2.2
Weber	-2	I	2	1	2.2
Bell	-1	I	5	3	1.5
Bert	-1	I	1	2	3.5
Corsoy 79	0	II	1	2	4.4
Elgin 87	0	II	5	1	4.0
Kenwood	0	II	2	1	2.0
Marcus	0	II	3	1	4.0
Sturdy	0	II	5	1	3.0
Wells II	+1	II	4	3	3.8
Hack	+1	II	5	1	4.0
Century 84	+2	II	5	2	4.6
Conrad	+2	II	2	3	4.0
Erie	+2	II	2	1	
Chapman	+4	II	3	1	3.0
Newton	+4	II	2	2	4.1
Amcor 89	+6	II	1	3	4.0
Burlison	+6	II	2	1	2.5
Dunbar	+7	III	2	2	
Edison	+8	III	1	1	3.1
Fremont	+8	III	3	1	3.0
Pella 86	+8	III	1	1	5.0
Resnik	+8	III	1	1	4.0
Hobbitt 87	+9	III	1	1	4.0
Zane	+9	III	5	2	4.4
Logan	+10	III	5	1	4.0
Mead	+12	III	5	3	4.5
Williams 82	+12	III	2	1	4.2
Chamberlain	+14	III	2	1	1.5
Flyer	+14	IV	1	1	3.8

* See description of evaluation methods.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS - BERESFORD, SD.
S.E. RESEARCH FARM, MATURITY GROUP-I, SEEDED MAY 7, 1992.

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
GOLDEN HARVEST	H-1196	I	138	35	2	3047	S	S	S	57.1	.
SANDS	SOI 117	I	144	36	3	2735	S	S	S	56.8	.
SIGCO	94	I	140	36	3	3007	S	S	S	55.6	.
------	HARDIN	I	138	34	3	2855	R	S	S	54.9	40.3
------	PARKER	I	137	37	4	2609	R	S	S	54.8	45.0
------	KENWOOD CK*	II	142	38	3	3047	S	S	S	54.7	.
AGRIPRO	AP1989	I	139	35	2	2768	R	R	S	54.5	.
CIBA	3172	I	141	35	2	2352	X	X	X	54.4	.
------	LESLIE	I	141	37	2	2820	R	S	S	53.7	46.3
DESOY	181	I	137	33	1	2838	S	S	S	53.3	.
FONTANELLE	3550	I	140	32	2	2768	S	S	S	52.8	45.4
PIONEER	9162	I	139	35	1	2454	S	X	X	52.4	41.0
SEXAUER	SX 1991	I	138	35	2	2702	S	S	S	50.9	.
------	BSR 101	I	140	35	2	3131	R	S	S	50.8	42.1
------	KATO	I	138	37	2	2204	R	S	S	50.4	42.1
------	BELL (SCN)-CK*	I	141	30	2	2565	S	S	S	49.8	40.5
------	WEBER	I	137	37	3	3519	R	S	S	49.8	46.6
------	KASOTA	I	139	34	2	2967	R	R	S	49.7	42.5
MUSTANG	M-1180	I	142	34	3	2838	S	S	S	49.5	.
------	SIBLEY CK*	I	139	36	2	2536	R	S	S	48.4	42.2
SANDS	SOI 118	I	141	31	2	2752	R	R	S	47.9	.
HY-VIGOR	EX:HV270	I	139	38	2	2855	X	X	X	47.3	.
PIONEER	9171	I	134	31	1	3007	S	X	X	46.6	39.1
------	BERT	I	141	36	2	2892	R	S	S	45.5	40.3
------	ALPHA	I	136	34	4	3661	S	S	S	43.4	34.7
------	DAWSON CK*	0	126	31	4	2802	R	S	S	42.0	34.9
TEST AVERAGES			139	35	2	2850				50.9	41.5
LSD (5%) VALUE:			1.6	3.5	1.1					5.1	4.8
MINIMUM BEST VALUE:#										52.1	41.9
COEF. OF VARIATION (CV):##										6.2	7.1

*CK = CHECK, SCN = SOYBEAN CYST NEMATODE CHECK, **1 = EXCELLENT, 5 = POOR.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS - BERESFORD, SD.
S.E. RESEARCH FARM, MATURITY GROUP-II, SEEDED MAY 7, 1992.

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
ASGROW	A2242	II	138	33	1	2987	R	R	R	65.9	.
ISC-PAYCO	9023	II	142	34	2	2892	S	S	S	65.4	.
KRUGER	K2777	II	148	38	3	2768	S	S	S	64.6	.
FONTANELLE	4052	II	142	39	2	2873	X	X	X	64.5	.
PRAIRIE BRAND	PB225	II	141	35	2	3007	S	S	S	64.3	47.3
C & D SEEDS	C & D 222	II	142	34	2	3047	S	S	S	63.6	.
DAHLGREN	D3223	II	142	35	2	2873	S	S	S	63.2	44.2
ICI	D260	II	142	33	2	2719	S	S	S	63.1	.
LATHAM	660	II	140	33	1	2640	S	S	S	63.1	.
HY-VIGOR	K-3903	II	146	36	4	2873	X	X	X	62.2	.
GOLD COUNTRY	GSC HADLEY	II	143	38	3	2873	S	S	S	61.8	.
MUSTANG	M-1325	II	145	38	3	2967	S	S	S	61.4	.
FONTANELLE	4701	II	142	43	1	2987	X	X	X	61.3	.
GOLDEN HARVEST	H-1271	II	145	42	2	3068	S	S	S	61.2	.
PROFISEED	PS2700	II	146	38	2	2671	S	S	S	61.1	.
SEXAUER	SX 2785	II	146	41	2	2987	S	S	S	60.6	.
SANDS	SOI 217	II	145	42	1	2948	S	S	S	60.6	46.8
SEXAUER	SX 2390	II	142	36	4	3153	S	S	S	59.9	.
ISC-PAYCO	9225	II	143	31	1	2892	S	S	S	59.6	.
YIELD KING	K2895	II	148	37	2	3197	S	S	S	59.6	.
DESOY	277	II	143	38	1	2671	S	S	S	59.5	.
GOLDEN HARVEST	X263	II	141	34	1	3047	S	S	S	59.5	.
------	CONRAD	II	143	33	2	2929	X	X	X	59.3	.
DIAMOND	D210	II	142	36	2	2594	S	S	S	58.9	46.2
DAHLGREN	D3252	II	142	35	2	2580	S	S	S	58.8	.
LATHAM	440	II	139	33	2	3661	S	S	S	58.8	.
STINE	2355	II	148	38	3	3068	S	S	S	58.7	.
HY-VIGOR	EX:K-300	II	146	35	3	2948	R	R	R	58.6	.
HOEGEMEYER	225	II	143	32	1	2752	S	S	S	58.6	.
ISC-PAYCO	8927	II	143	39	1	2820	S	S	S	58.3	.
YIELD KING	K2202	II	142	42	2	3007	S	S	S	58.0	.
SANDS	SOI 214	II	144	36	2	2855	S	S	S	57.7	.
CIBA	3202	II	144	37	2	2481	X	X	X	57.6	.
PRAIRIE BRAND	PB234	II	142	33	1	3027	S	S	S	57.6	.
------	KENWOOD CK*	II	142	39	3	2609	S	S	S	57.5	42.9
HOEGEMEYER	262	II	144	34	2	3088	S	S	S	56.6	.
DESOY	272	II	143	37	2	2609	S	S	S	56.5	.
------	RESNIK CK*	III	152	36	2	3047	R	R	R	56.1	.
C & D SEEDS	C & D 272	II	148	36	2	3338	S	S	S	55.7	.
DEKALB	CX210	II	139	39	2	2820	S	S	S	55.5	.
KRUGER	K2790	II	145	40	1	2785	S	S	S	55.5	.
STAR	EX330	II	147	36	4	2967	S	S	S	55.5	.
CIBA	3282	II	148	34	1	3175	X	X	X	55.4	.
------	ERIE	II	143	32	4	3088	R	X	R	55.1	41.9
------	MARCUS	II	142	37	2	2855	S	S	S	55.1	43.7

BERESFORD - MATURITY GROUP-II (CONTINUED).

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
MUSTANG	M-1210	II	146	42	4	2768	R	S	S	55.0	42.9
PIONEER	9241	II	143	32	1	2948	S	S	S	55.0	43.8
HOEGEMEYER	237	II	142	37	3	2609	S	S	S	54.9	.
SANDS	SOI 287	II	143	34	3	2702	S	S	S	54.9	45.1
PIONEER	9231	II	142	33	2	3088	R	R	R	54.5	.
NORTHRUP KING	S 24-92	II	143	33	1	3175	S	S	S	54.0	.
NORTHRUP KING	S 28-01	II	147	33	3	3363	R	R	S	54.0	.
PIONEER	9273	II	143	36	1	3047	S	S	S	54.0	.
SIGCO	96	II	141	36	1	3131	S	S	S	54.0	.
------	STURDY	II	143	37	3	2609	R	S	S	53.5	42.9
------	CHAPMAN	II	146	36	2	2565	R	R	R	53.4	40.6
DESOY	298	II	147	38	4	2671	S	S	S	53.2	.
GOLD COUNTRY	GSC WILMOT	II	134	40	2	2987	R	S	S	53.0	.
FONTANELLE	4100	II	143	36	2	2752	X	X	X	52.8	42.1
DEKALB	CX259	II	143	37	2	3175	S	S	S	52.6	43.3
------	CENTURY 84	II	148	37	3	2892	R	R	R	52.4	40.8
YIELD KING	K2323	II	140	39	1	2855	S	S	S	52.4	.
------	SIBLEY CK*	I	139	36	2	2481	R	S	S	51.7	40.7
PRAIRIE BRAND	PB244EXP	II	143	35	1	3131	X	X	X	51.5	.
DEKALB	CX264	II	142	34	2	2910	S	S	S	50.7	.
DAIRYLAND	DSR-217	II	141	33	1	3388	M	M	M	50.3	.
------	CORSOY 79	II	141	39	3	2910	R	R	S	50.1	40.3
MUSTANG	M-1225	II	143	35	3	2820	S	S	S	50.1	40.7
------	HACK	II	146	35	2	2752	R	S	R	49.8	40.2
------	BURLISON	II	145	38	3	2551	R	X	R	49.5	40.9
------	ELGIN	II	142	33	2	2624	S	S	S	49.3	40.0
GOLDEN HARVEST	H-1233	II	143	34	2	2967	S	S	S	49.2	.
------	WELLS II	II	142	37	2	2987	R	R	S	48.4	40.5
------	ELGIN 87	II	141	34	2	2565	R	R	R	48.0	34.2
LATHAM	650	II	143	36	2	2948	S	S	S	47.9	41.0
KRUGER	K2707	II	146	39	3	2929	S	S	S	47.1	.
------	NEWTON	II	148	42	5	3110	R	S	S	47.1	38.4
HY-VIGOR	EX:HV116	II	134	42	3	2987	X	X	X	47.1	.
------	BELL (SCN-CK)*	I	142	33	3	2580	S	S	S	47.0	.
------	AMCOR 89	II	148	41	4	2910	R	R	R	46.7	38.4
TEST AVERAGES			143	36	2	2899				55.9	41.9
LSD (5%) VALUE:			###NS	3.6	0.9					5.3	4.6
MINIMUM BEST VALUE:#										60.7	42.8
COEF. OF VARIATION (CV):##										5.9	6.1

*CK = CHECK, SCN = SOYBEAN CYST NEMATODE CHECK, **1 = EXCELLENT, 5 = POOR.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.
###NS - DIFFERENCES AMONG AVERAGES WITHIN A COLUMN ARE NONSIGNIFICANT.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS - WILMOT, SD.
DELTON OSTERLOH FARM, MATURITY GROUP-0, SEEDED MAY 18, 1992.

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	91-92
			DAYS	(IN.)	**			$		(BU/AC)	
STINE	0380	0	130	30	1	3131	X	X	X	45.8	.
MUSTANG	M-1040	0	128	34	1	2948	R	S	S	41.8	.
MUSTANG	M-1050	0	130	32	1	2624	R	S	S	41.4	47.3
PIONEER	9091	0	124	27	1	2838	S	X	X	39.8	48.8
ARROWHEAD	EXP-92	0	129	33	1	3338	R	S	S	39.3	.
SIGCO	74	0	130	30	1	3007	S	S	S	38.7	.
TOP FARM	TF0100	0	129	31	1	3175	R	S	S	38.0	46.6
INTERSTATE	IS546	0	127	33	1	2967	R	S	S	38.0	48.3
NORTHRUP KING	S 07-80	0	125	32	1	2910	S	S	S	37.9	47.3
GOLDEN HARVEST	H-1075	0	125	33	1	2735	S	S	S	37.3	.
MUSTANG	M-1000	0	126	31	1	3175	R	S	S	37.0	46.3
------	SIBLEY CK*	I	130	31	1	2752	R	S	S	36.6	47.6
------	SIMPSON	0	127	31	1	3027	R	S	S	36.5	44.9
G.C.S	BAKER	0	126	30	1	2873	S	S	S	36.1	.
------	DAWSON CK*	0	126	32	1	2820	R	S	S	36.1	44.9
------	EVANS	0	127	35	1	3110	R	S	S	36.0	43.7
ARROWHEAD	8450	0	128	31	1	2987	R	S	S	35.9	46.0
------	LAMBERT	0	125	29	1	3007	R	S	S	35.3	47.7
DAIRYLAND	DSR-045	0	121	31	1	2768	M	M	M	35.3	.
SIGCO	80	0	126	30	1	2948	R	S	S	35.2	45.6
------	OZZIE	0	123	30	1	2702	R	S	S	35.0	42.7
DEKALB	CX096	0	130	31	1	3220	R	S	S	34.9	45.3
------	SWIFT	0	127	34	1	3220	S	S	S	34.8	43.6
TOP FARM	TF0500	0	127	35	1	3007	S	S	S	34.4	.
G.C.S.	ROSCOE	0	127	27	1	2785	R	S	S	33.5	.
------	GLENWOOD	0	124	29	1	2892	R	S	S	33.5	47.0
------	DASSEL	0	126	30	1	3175	R	R	R	32.9	44.6
PIONEER	9062	0	125	29	1	2987	X	X	X	31.4	.
------	AGASSIZ	0	120	27	1	3290	R	S	S	29.2	.
------	MCCALL CK*	00	116	27	1	3007	S	S	S	26.5	32.3
------	BARON	00	109	26	1	2508	S	S	S	11.3	.
TEST AVERAGES			126	31	1	2956				35.5	45.6
LSD (5%) VALUE:			1.5	3.4						4.7	3.7
MINIMUM BEST VALUE:#										41.2	45.2
COEF. OF VARIATION (CV):##										8.2	7.4

*CK = CHECK VARIETY, **1 = EXCELLENT, 5 = POOR.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS - WILMOT, SD.
DELTON OSTERLOH FARM, MATURITY GROUP-I, SEEDED MAY 18, 1992.

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
------	KENWOOD CK*	II	134	36	1	2838	S	S	S	45.2	.
GOLDEN HARVEST	H-1196	I	135	32	1	2929	S	S	S	44.8	.
EHRICH	E-167	I	131	32	1	2536	S	S	S	44.3	.
ARROWHEAD BRAND	8500	I	130	34	1	2495	S	S	S	43.7	.
------	BERT	I	133	39	1	2910	R	S	S	43.0	49.9
------	PARKER	I	135	39	1	2609	R	S	S	42.9	49.0
MUSTANG	M-1150	I	132	35	1	2580	S	S	S	42.7	48.1
TOP FARM	TF1406	I	130	33	1	2551	S	S	S	42.6	.
ARROWHEAD BRAND	8600	I	131	36	1	2609	S	S	S	42.3	.
------	KASOTA	I	131	32	1	2967	R	R	S	42.1	48.7
------	WEBER	I	132	36	1	3519	R	S	S	41.9	49.3
MUSTANG	M-1140	I	131	34	1	2565	S	S	S	41.4	.
DEKALB	CX117	I	129	30	1	3363	S	S	S	40.9	48.6
ICI	D162	I	133	35	1	2855	S	S	S	40.4	.
------	KATO	I	131	36	1	2402	R	S	S	39.8	46.5
ISC-PAYCO	9219	I	134	34	1	2873	S	S	S	39.6	.
------	SIBLEY CK*	I	131	35	1	2522	R	S	S	39.5	46.1
------	BSR 101	I	134	33	1	3047	R	S	S	39.1	48.0
------	BELL (SCN)-CK*	I	135	34	2	2719	S	S	S	38.9	49.9
TOP FARM	TF1200	I	127	27	1	3131	S	S	S	38.8	.
------	LESLIE	I	137	35	1	2671	R	S	S	38.7	51.4
PIONEER	9131	I	133	34	1	2929	S	X	X	38.4	.
PIONEER	9111	I	129	28	1	2352	S	X	X	38.4	49.7
NORTHRUP KING	S 12-22	I	129	29	1	3088	S	S	S	38.2	.
CIBA	3172	I	136	33	1	2389	X	X	X	36.7	.
------	DAWSON CK*	0	125	34	1	3110	R	S	S	36.5	42.2
GOLDEN HARVEST	H-1150	I	136	35	1	3153	S	S	S	36.2	.
DEKALB	CX121	I	133	41	1	2402	R	S	S	35.0	.
------	ALPHA	I	135	36	1	3363	S	S	S	34.4	42.7
DIAMOND	SC134	I	127	28	1	3175	S	S	S	34.2	.
------	HARDIN	I	137	36	1	2624	R	S	S	33.8	47.0
TEST AVERAGES			132	34	1	2815				39.8	47.8
LSD (5%) VALUE:			1.1	3.6						3.3	###NS
MINIMUM BEST VALUE:#										41.6	
COEF. OF VARIATION (CV):##										5.1	5.9

*CK = CHECK, SCN = SOYBEAN CYST NEMATODE CHECK, **1 = EXCELLENT, 5 = POOR.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.
###NS - DIFFERENCES AMONG AVERAGES WITHIN A COLUMN ARE NONSIGNIFICANT.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS (NO TILL) - FRANKFORT, SD.
STEVE MASAT FARM, MATURITY GROUP-0, SEEDED MAY 12, 1992.

BRAND	VARIETY	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	PHYTOPHTHORA REACTION RACE 1	PHYTOPHTHORA REACTION RACE 3	PHYTOPHTHORA REACTION RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
SIGCO	74	O	139	29	1	3388	S	S	S	36.6	.
MUSTANG	M-1000	O	142	32	1	3414	R	S	S	34.9	.
------	LAMBERT	O	142	26	1	3110	R	S	S	34.3	.
------	SIMPSON	O	139	29	1	3492	R	S	S	34.2	.
MUSTANG	M-1050	O	141	28	1	3266	R	S	S	34.0	.
------	SWIFT	O	139	31	1	3691	S	S	S	33.5	.
------	EVANS	O	140	30	1	3388	R	S	S	31.8	.
DEKALB	CX096	O	143	31	1	3492	R	S	S	31.3	.
NORTHRUP KING	S 07-80	O	140	27	1	3363	S	S	S	31.1	.
INTERSTATE	IS546	O	141	32	1	3388	R	S	S	30.6	.
------	SIBLEY CK*	I	***	32	1	3088	R	S	S	30.5	.
------	DASSEL	O	141	25	1	3153	R	R	R	30.3	.
GOLDEN HARVEST	H-1075	O	139	32	1	2910	S	S	S	29.9	.
SIGCO	80	O	143	30	1	3266	R	S	S	29.7	.
ARROWHEAD	8450	O	142	31	1	3414	R	S	S	29.4	.
MUSTANG	M-1040	O	141	31	1	3575	R	S	S	28.9	.
ARROWHEAD	EXP-92	O	141	30	1	3691	R	S	S	28.8	.
------	AGASSIZ	O	133	26	1	3047	R	S	S	28.8	.
PIONEER	9061	O	138	22	1	3575	R	X	X	28.3	.
PIONEER	9062	O	139	22	1	3266	X	X	X	27.5	.
------	DAWSON CK*	O	137	23	1	3175	R	S	S	26.1	.
PIONEER	9091	O	142	25	1	2987	S	X	X	25.3	.
------	GLENWOOD	O	140	21	1	2892	R	S	S	22.1	.
------	OZZIE	O	138	21	1	2838	R	S	S	21.3	.
------	MCCALL CK*	OO	132	23	1	3110	S	S	S	15.3	.
TEST AVERAGES			129	28	1	3266				29.7	.
LSD (5%) VALUE:			0.4	4.6						6.2	
MINIMUM BEST VALUE:#										30.5	
COEF. OF VARIATION (CV):##										12.6	

*CK = CHECK VARIETY, **1 = EXCELLENT, 5 = POOR, ***GREEN AT HARVEST
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS (NO TILL) - FRANKFORT, SD.
STEVE MASAT FARM, MATURITY GROUP-I, SEEDED MAY 12, 1992.

BRAND	VARIETY	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	PHYTOPHTHORA REACTION RACE 1	PHYTOPHTHORA REACTION RACE 3	PHYTOPHTHORA REACTION RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
------	PARKER	I	***	34	1	3153	R	S	S	38.1	.
------	KASOTA	I	***	32	1	3388	R	R	S	37.2	.
------	HARDIN	I	145	33	1	3110	R	S	S	37.0	.
ARROWHEAD BRAND	8500	I	***	32	1	2873	S	S	S	36.9	.
------	WEBER	I	***	31	1	3661	R	S	S	36.5	.
MUSTANG	M-1140	I	143	33	1	2910	S	S	S	36.4	.
------	KATO	I	144	32	1	2454	R	S	S	35.4	.
------	LESLIE	I	***	33	1	3175	R	S	S	35.3	.
DEKALB	CX121	I	***	32	1	2948	R	S	S	34.1	.
------	SIBLEY CK*	I	***	31	1	2929	R	S	S	33.9	.
GOLDEN HARVEST	X112	I	142	28	1	2948	S	S	S	33.8	.
NORTHRUP KING	S 12-22	I	141	28	1	3575	S	S	S	33.3	.
------	KENWOOD CK*	II	***	31	1	3575	S	S	S	32.6	.
------	BSR 101	I	***	32	1	3632	R	S	S	32.4	.
ARROWHEAD BRAND	8700	I	***	29	1	3110	S	S	S	31.9	.
GOLDEN HARVEST	H-1196	I	***	32	1	3466	S	S	S	31.1	.
------	BERT	I	***	32	1	3363	R	S	S	30.2	.
PIONEER	9171	I	***	28	1	3290	S	X	X	29.9	.
PIONEER	9131	I	146	29	1	3220	S	X	X	29.5	.
------	DAWSON CK*	O	138	29	1	3197	R	S	S	29.1	.
ARROWHEAD BRAND	8600	I	***	31	1	2892	S	S	S	28.3	.
ISC-PAYCO	9219	I	***	29	1	3691	S	S	S	27.7	.
PIONEER	9162	I	145	27	1	2838	S	X	X	26.4	.
------	ALPHA	I	***	33	1	4018	S	S	S	26.3	.
MUSTANG	M-1180	I	***	30	1	3575	S	S	S	26.2	.
DAIRYLAND	DSR-173	I	***	31	1	3243	R	S	S	25.1	.
------	BELL (SCN)- CK*	I	***	28	1	3363	S	S	S	24.2	.
CIBA	3172	I	***	29	1	2855	X	X	X	24.0	.
TEST AVERAGES			***	31	1	3230				31.5	.
LSD (5%) VALUE:				4.4						5.6	
MINIMUM BEST VALUE:#										32.6	
COEF. OF VARIATION (CV):##										10.9	

*CK = CHECK, SCN = SOYBEAN CYST NEMATODE CHECK, **1 = EXCELLENT, 5 = POOR, ***GREEN AT HARVEST.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS - WATERTOWN, SD.
N.E. RESEARCH FARM, MATURITY GROUP-0, SEEDED MAY 12, 1992.

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
ARROWHEAD	EXP-92	0	144	32	1	3414	R	S	S	33.1	.
SIGCO	74	0	141	25	1	3153	S	S	S	31.6	.
CIBA	3072	0	139	26	1	2522	R	S	S	31.5	.
DAHLGREN	KG-62	0	142	28	1	3068	X	X	X	29.8	.
MUSTANG	M-1050	0	144	27	1	2655	R	S	S	29.2	38.4
PIONEER	9091	0	138	24	1	2802	S	X	X	28.7	37.9
SIGCO	80	0	145	30	1	3068	R	S	S	28.5	.
------	DAWSON CK*	0	142	25	1	2624	R	S	S	28.4	36.4
INTERSTATE	IS546	0	143	30	1	2873	R	S	S	28.2	36.3
PIONEER	9061	0	135	25	1	3153	R	X	X	28.0	35.5
ASGROW	A0949	0	139	26	1	2967	R	R	S	27.9	.
MUSTANG	M-1040	0	142	29	1	3131	R	S	S	27.6	.
NORTHRUP KING	S 07-80	0	142	27	1	2565	S	S	S	27.4	36.1
------	SIBLEY CK*	I	142	28	1	2735	R	S	S	26.9	38.5
SEXAUER	SX 0690	0	136	31	1	2910	S	S	S	26.5	.
------	DASSEL	0	141	27	1	2624	R	R	R	26.1	33.4
------	SWIFT	0	138	30	1	2948	S	S	S	25.9	35.0
------	SIMPSON	0	138	26	1	3175	R	S	S	25.1	35.7
HILLCREST	HC091	0	142	28	1	3007	R	S	S	25.0	37.0
DEKALB	CX096	0	144	28	1	2948	R	S	S	25.0	37.4
------	LAMBERT	0	142	22	1	2802	R	S	S	24.8	35.0
MUSTANG	M-1000	0	146	28	1	2967	R	S	S	23.3	36.5
ARROWHEAD	8450	0	144	27	1	3007	R	S	S	22.1	34.4
------	MCCALL CK*	00	137	25	1	2802	S	S	S	21.8	24.1
------	OZZIE	0	140	26	1	2785	R	S	S	21.8	29.1
------	EVANS	0	142	27	1	3068	R	S	S	21.6	30.7
PROFISEED	PS0911	0	139	26	1	2735	R	S	S	21.2	.
------	GLENWOOD	0	140	23	1	2735	R	S	S	20.4	32.3
PIONEER	9062	0	139	20	1	3314	X	X	X	17.7	.
------	AGASSIZ	0	136	25	1	2948	R	S	S	13.7	.
SEXAUER	EX 0992	0	141	26	1	2785	R	S	S	13.4	.
G.C.S.	BADGER	0	145	22	1	2929	S	S	S	9.2	30.3
------	BARON	00	115	20	1	2719	S	S	S	8.3	.
TEST AVERAGES			140	26	1	2891				24.3	34.6
LSD (5%) VALUE:			1.1	3.6						4.1	5.3
MINIMUM BEST VALUE:#										29.1	33.2
COEF. OF VARIATION (CV):##										10.2	7.9

*CK = CHECK VARIETY, **1 = EXCELLENT, 5 = POOR.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS - WATERTOWN, SD.
N.E. RESEARCH FARM, MATURITY GROUP-I, SEEDED MAY 12, 1992.

BRAND	VARIETY	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	PHYTOPHTHORA REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
DIAMOND	SC134	I	141	24	1	3220	S	S	S	31.2	.
TOP FARM	TF1406	I	144	29	1	2929	S	S	S	31.1	38.1
SEXAUER	SX 1391	I	140	29	1	3466	S	S	S	29.3	.
DEKALB	CX117	I	144	27	1	3363	S	S	S	28.7	37.0
TOP FARM	TF1200	I	143	24	1	3088	S	S	S	28.3	.
SANDS	SOI 113	I	143	24	1	2609	S	S	S	27.8	.
ARROWHEAD BRAND	8600	I	***	27	1	3027	S	S	S	27.7	39.4
------	SIBLEY CK*	I	146	29	1	3027	R	S	S	27.4	37.9
------	PARKER	I	147	32	1	3007	R	S	S	26.8	36.9
SEXAUER	EX 1492	I	145	27	1	3439	R	S	S	26.6	.
MUSTANG	M-1150	I	***	28	1	3047	S	S	S	25.8	36.7
PIONEER	9111	I	142	24	1	2594	S	X	X	25.8	35.9
AGRIPRO	AP1347	I	142	27	1	3547	S	S	S	25.5	.
------	KASOTA	I	***	25	1	3414	R	R	S	24.8	37.9
GOLDEN HARVEST	H-1196	I	***	25	1	3220	S	S	S	24.7	.
GOLDEN HARVEST	X112	I	140	32	1	2655	S	S	S	24.4	.
NORTHRUP KING	S 12-22	I	143	24	1	3266	S	S	S	24.2	.
MUSTANG	M-1140	I	***	28	1	2892	S	S	S	24.2	36.9
------	KATO	I	***	28	1	2495	R	S	S	23.8	36.8
------	DAWSON CK*	C	142	24	1	3110	R	S	S	23.7	32.2
TOP FARM	TF1550	I	***	27	1	3068	S	S	S	23.4	.
------	WEBER	I	***	31	1	4127	R	S	S	23.2	35.5
ARROWHEAD BRAND	8500	I	***	28	1	3007	S	S	S	23.1	38.5
ISC-PAYCO	9219	I	***	30	1	3197	S	S	S	23.0	.
ARROWHEAD BRAND	8700	I	***	28	1	3197	S	S	S	22.3	36.1
------	BERT	I	142	29	1	2948	R	S	S	21.4	34.5
ASGROW	A1662	I	***	29	1	2735	R	R	R	21.3	.
PROFISEED	PS1850	I	***	26	1	3197	S	S	S	21.1	.
DAIRYLAND	DSR-173	I	***	29	1	2855	R	S	S	21.0	.
PIONEER	9162	I	***	24	1	2340	S	X	X	20.5	37.6
------	BSR 101	I	***	29	1	3338	R	S	S	20.5	33.8
CIBA	3172	I	***	24	1	2671	X	X	X	19.7	.
ICI	D162	I	***	25	1	3131	S	S	S	19.4	.
DAHLGREN	D3151	I	***	26	1	2785	R	X	R	19.4	.
DEKALB	CX121	I	***	35	1	2389	R	S	S	18.9	.

WATERTOWN - MATURITY GROUP-I (CONTINUED).

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	PHYTOPHTHORA REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
PIONEER	9131	I	146	26	1	3068	S	X	X	17.5	.
------	HARDIN	I	***	28	1	3047	R	S	S	17.4	31.7
------	LESLIE	I	***	28	1	2686	R	S	S	16.8	34.1
------	ALPHA	I	***	28	1	3575	S	S	S	16.8	27.2
------	KENWOOD CK*	II	***	31	1	3175	S	S	S	15.4	.
------	BELL (SCN)-CK*	I	***	22	1	3266	S	S	S	13.9	30.6
TEST AVERAGES			***	27	1	3061				23.2	35.5
LSD (5%) VALUE:				3.3						4.6	5.8
MINIMUM BEST VALUE:#										26.7	33.7
COEF. OF VARIATION (CV):##										12.3	8.9

*CK = CHECK, SCN = SOYBEAN CYST NEMATODE CHECK, **1 = EXCELLENT, 5 = POOR, ***GREEN AT HARVEST.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS - BROOKINGS, SD.
SDSU AGRONOMY FARM, MATURITY GROUP-0, SEEDED MAY 8, 1992.

BRAND	VARIETY	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	PHYTOPHTHORA REACTION RACE 1	PHYTOPHTHORA REACTION RACE 3	PHYTOPHTHORA REACTION RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
MUSTANG	M-1050	0	143	33	1	2481	R	S	S	46.2	51.2
ARROWHEAD	EXP-92	0	143	33	1	2967	R	S	S	46.2	.
SIGCO	74	0	150	37	1	2768	S	S	S	45.4	.
------	SIMPSON	0	141	36	1	2892	R	S	S	42.9	48.8
INTERSTATE	IS546	0	145	39	1	3027	R	S	S	41.7	48.3
------	DASSEL	0	143	36	1	2802	R	R	R	40.8	41.9
ASGROW	A0949	0	143	39	2	2594	R	R	S	40.5	46.1
------	DAWSON CK*	0	140	35	2	2454	R	S	S	40.1	45.1
PIONEER	9091	0	140	31	1	2671	S	X	X	40.1	.
MUSTANG	M-1000	0	142	40	1	2719	R	S	S	39.9	49.2
------	EVANS	0	141	32	2	3068	R	S	S	39.2	42.5
DEKALB	CX096	0	145	39	1	2802	R	S	S	39.1	.
SIGCO	80	0	143	37	2	2820	R	S	S	38.8	.
------	SIBLEY CK*	I	145	41	1	2328	R	S	S	38.6	48.5
ARROWHEAD	8450	0	145	39	2	2752	R	S	S	38.0	48.1
------	LAMBERT	0	142	27	1	2565	R	S	S	37.9	46.6
SEXAUER	EX 0992	0	141	35	1	2910	R	S	S	37.6	.
HY-VIGOR	6133-A	0	152	42	1	2671	X	X	X	35.1	.
------	OZZIE	0	140	31	1	2551	R	S	S	35.0	39.0
SEXAUER	SX 0690	0	141	37	1	2735	S	S	S	34.6	.
------	SWIFT	0	140	39	3	2855	S	S	S	33.6	43.3
------	AGASSIZ	0	130	31	1	3047	R	S	S	32.2	.
------	GLENWOOD	0	141	31	1	2686	R	S	S	32.0	41.3
------	MCCALL CK*	00	130	28	1	2522	S	S	S	27.8	25.7
------	BARON	00	119	29	1	2377	S	S	S	16.1	.
TEST AVERAGES			141	35	1	2702				37.9	44.5
LSD (5%) VALUE:			0.6	4.1	0.5					3.5	7.2
MINIMUM BEST VALUE:#										42.8	44.1
COEF. OF VARIATION (CV):##										5.7	8.0

*CK = CHECK VARIETY, **1 = EXCELLENT, 5 = POOR.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS - BROOKINGS, SD.
SDSU AGRONOMY FARM, MATURITY GROUP-I, SEEDED MAY 8, 1992.

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA REACTION ---- RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
KRUGER	K1313	I	146	36	2	2838	S	S	S	48.4	.
PROFISEED	PSX148	I	143	35	1	2536	S	S	S	48.3	.
SANDS	SOI 113	I	147	37	1	2551	S	S	S	47.8	.
SEXAUER	EX 1492	I	145	36	1	3290	R	S	S	47.8	.
LATHAM	200	I	148	39	1	2594	S	S	S	46.9	.
YIELD KING	K1212	I	***	35	1	2686	R	S	S	46.8	.
LATHAM	EX 170	I	148	34	1	2686	S	S	S	45.4	.
ARROWHEAD BRAND	8600	I	149	38	1	2522	S	S	S	44.7	.
NORTHRUP KING	S 12-22	I	144	33	2	2802	S	S	S	44.2	.
TOP FARM	TF1550	I	149	36	2	2752	S	S	S	43.8	.
TOP FARM	TF1406	I	145	37	1	2454	S	S	S	43.7	.
SIGCO	94	I	148	35	2	2640	S	S	S	43.4	.
MUSTANG	M-1150	I	***	40	1	2768	S	S	S	43.3	.
MUSTANG	M-1140	I	146	37	1	2522	S	S	S	43.1	.
ARROWHEAD BRAND	8700	I	148	34	2	2719	S	S	S	43.1	.
GOLDEN HARVEST	H-1196	I	***	33	1	2820	S	S	S	42.9	.
YIELD KING	K1515	I	144	37	2	2967	S	S	S	42.7	.
TERRA	FLAG	I	148	38	1	2415	S	S	S	42.5	.
------	KENWOOD CK*	II	***	39	1	2838	S	S	S	42.3	.
------	PARKER	I	***	42	2	2305	R	S	S	42.2	52.9
AGRIPRO	AP1989	I	147	36	1	2624	R	R	S	42.2	.
------	BSR 101	I	***	38	1	3131	R	S	S	42.1	50.4
HY-VIGOR	ROW-99	I	***	42	1	2735	S	S	S	42.0	.
ASGROW	A1662	I	***	39	1	2686	R	R	R	42.0	.
PRAIRIE BRAND	PB193	I	***	38	1	2719	X	X	X	41.9	.
TOP FARM	TF1200	I	144	32	1	2719	S	S	S	41.6	.
SEXAUER	SX 1890	I	***	40	1	3414	S	S	S	41.5	.
GOLDEN HARVEST	X112	I	143	36	1	2522	S	S	S	41.5	.
PROFISEED	PS1807	I	***	37	1	2624	S	S	S	41.4	.
EHRICH	E-167	I	147	36	1	2281	S	S	S	41.4	.
TERRA	RUNNER III	I	***	40	1	2671	S	S	S	41.3	.
SEXAUER	SX 1391	I	142	39	2	2987	S	S	S	41.2	.
LATHAM	EX 240	I	***	35	1	2873	S	S	S	41.2	.
ARROWHEAD BRAND	8500	I	147	36	1	2328	S	S	S	41.0	54.1
------	WEBER	I	148	38	3	3547	R	S	S	40.6	50.3
DESOY	181	I	***	32	1	2522	S	S	S	40.4	.
STINE	1090	I	***	37	1	2702	S	S	S	40.3	.
YIELD KING	K1414	I	150	34	1	2624	S	S	S	40.2	.
STAR	EXP8412	I	145	36	2	2655	R	S	S	40.2	.
DAIRYLAND	DSR-173	I	***	38	1	2702	R	S	S	39.8	.
ICI	D162	I	***	39	1	3007	S	S	S	39.6	.
PIONEER	9111	I	147	32	2	2415	S	X	X	38.3	46.6
------	BELL (SCN)-CK*	I	***	33	2	2752	S	S	S	37.4	49.6
SEXAUER	SX 1991	I	147	34	2	2655	S	S	S	37.3	.
------	SIBLEY CK*	I	146	40	1	2389	R	S	S	37.0	47.9

BROOKINGS - MATURITY GROUP-I (CONTINUED).

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
PIONEER	9131	I	147	39	1	2948	S	X	X	36.5	.
------	BERT	I	145	41	2	2768	R	S	S	36.4	46.0
------	KATO	I	146	41	1	2248	R	S	S	36.1	46.1
PIONEER	9162	I	149	34	1	2352	S	X	X	36.0	.
------	KASOTA	I	149	35	1	2948	R	R	S	35.7	48.4
HILLCREST	HC248	I	***	39	2	3047	R	S	S	35.6	.
STINE	1070	I	***	36	1	2802	S	S	S	35.0	50.2
------	DAWSON CK*	0	140	37	2	2536	R	S	S	34.8	42.0
CIBA	3172	I	***	36	1	2508	X	X	X	34.2	.
------	ALPHA	I	***	39	2	3175	S	S	S	34.1	42.1
ISC-PAYCO	9219	I	***	40	2	3047	S	S	S	33.2	.
------	LESLIE	I	***	40	1	2702	R	S	S	32.9	45.5
G.C.S.	COURTLAND	I	***	40	2	2719	R	S	S	31.1	47.7
DEKALB	CX121	I	149	44	1	.	R	S	S	29.9	.
G.C.S.	RUSSELL	I	***	36	1	3110	S	S	S	29.7	.
------	HARDIN	I	***	39	2	2609	R	S	S	26.7	35.0
TERRA	TS175	I	***	36	1	2752	X	X	X	26.0	.
TEST AVERAGES			***	37	1	2729				39.8	47.2
LSD (5%) VALUE:				3.1	0.6					3.9	8.9
MINIMUM BEST VALUE:#										44.6	45.3
COEF. OF VARIATION (CV):##										6.1	7.1

*CK = CHECK, SCN = SOYBEAN CYST NEMATODE CHECK, **1 = EXCELLENT, 5 = POOR, ***GREEN AT HARVEST.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS - BROOKINGS, SD.
SDSU AGRONOMY FARM, MATURITY GROUP-II, SEEDED MAY 8, 1992.

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**					$ (BU/AC)	
KRUGER	K2525	II	***	32	1	3007	S	S	S	47.3	.
LATHAM	440	II	148	31	2	3414	S	S	S	46.7	46.2
ASGROW	A2242	II	150	32	1	3197	R	R	R	46.6	.
TERRA	TS205	II	***	34	1	3153	S	S	S	45.4	.
PRAIRIE BRAND	PB200	II	151	33	1	2352	R	S	S	45.4	.
MUSTANG	M-1200	II	***	33	2	2967	S	S	S	44.6	.
ISC-PAYCO	9225	II	***	30	1	2948	S	S	S	44.5	.
SANDS	SOI 214	II	***	34	2	3197	S	S	S	44.4	.
SANDS	SOI 230	II	149	31	1	2536	R	S	S	44.2	.
PRAIRIE BRAND	PB225	II	152	35	2	3027	S	S	S	44.1	.
EHRICH	E-298	II	***	34	2	3088	S	S	S	43.8	.
PRAIRIE BRAND	PB187	II	***	34	2	3007	X	X	X	43.3	.
ISC-PAYCO	9023	II	151	34	2	3068	S	S	S	43.0	.
STINE	2220	II	152	32	1	2580	R	S	S	42.9	.
TERRA	TS253	II	***	31	1	3110	S	S	S	42.2	.
SEXAUER	SX 2390	II	***	32	2	3131	S	S	S	41.8	.
PROFISEED	PS2350	II	***	32	2	3153	S	S	S	41.7	.
LATHAM	330	II	150	33	1	2719	S	S	S	41.2	.
NORTHRUP KING	S 20-20	II	***	33	1	2454	R	S	S	40.0	.
------	CONRAD	II	***	34	1	2892	X	X	X	39.9	.
------	ELGIN	II	***	32	1	2655	S	S	S	39.4	41.2
SIGCO	96	II	***	34	1	3388	S	S	S	39.3	.
------	ELGIN 87	II	***	31	2	2855	R	R	R	39.2	42.1
CIBA	3202	II	***	34	1	2655	X	X	X	38.3	.
DEKALB	CX210	II	***	40	2	3290	S	S	S	38.0	.
PIONEER	9232	II	***	32	1	2328	X	X	X	37.4	.
------	STURDY	II	***	38	2	2522	R	S	S	37.1	47.4
------	SIBLEY CK*	I	146	36	1	2428	R	S	S	37.0	44.3
------	MARCUS	II	***	33	1	2671	S	S	S	37.0	46.2
PIONEER	9231	II	***	30	1	2910	R	R	R	36.8	.
------	CHAPMAN	II	***	37	1	2719	R	R	R	36.5	42.4
------	ERIE	II	***	33	2	3131	R	X	R	36.5	40.8
DESOY	240	II	***	36	1	3466	S	S	S	36.2	.
------	KENWOOD CK*	II	***	36	2	2768	S	S	S	36.1	45.0
YIELD KING	K2303	II	***	39	1	2536	S	S	S	36.0	.
SANDS	SOI 117	II	***	33	1	2609	S	S	S	35.9	.
YIELD KING	K2202	II	***	42	1	2820	S	S	S	35.7	.
------	BELL (SCN-CK)*	I	***	32	2	2752	S	S	S	35.3	.
DIAMOND	D200	II	***	39	1	2702	S	S	S	35.0	45.4
HY-VIGOR	K-2180	II	150	36	2	3110	X	X	X	33.9	.
HY-VIGOR	ROW KING	II	***	37	2	2855	R	R	R	32.9	.
HY-VIGOR	EX:H-620	II	***	40	2	3088	R	R	S	32.2	.
DESOY	260	II	***	38	1	3575	S	S	S	32.2	.
HILLCREST	HC242	II	***	34	1	3519	S	S	S	31.5	.
------	WELLS II	II	***	38	1	2929	R	R	S	31.3	39.3

BROOKINGS - MATURITY GROUP-II (CONTINUED).

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
------	CORSOY 79	II	***	37	2	2929	R	R	S	31.1	38.1
DEKALB	CX264	II	***	35	2	3088	S	S	S	30.9	.
------	HACK	II	***	35	2	2892	R	S	R	30.6	39.4
------	BURLISON	II	***	33	1	2536	R	X	R	29.9	38.1
------	NEWTON	II	***	40	2	3266	R	S	S	28.7	34.7
------	AMCOR 89	II	***	43	2	3175	R	R	R	28.3	34.1
------	CENTURY 84	II	***	36	2	3047	R	R	R	27.6	33.5
CIBA	3282	II	***	33	1	3266	X	X	X	25.8	.
KRUGER	K2424	II	***	36	1	3519	R	S	S	25.8	.
------	RESNIK CK*	III	***	36	1	3220	R	R	R	25.0	.
TEST AVERAGES			***	35	1	2937				37.2	41.1
LSD (5%) VALUE:				2.2	0.6					3.5	6.0
MINIMUM BEST VALUE:#										43.9	41.5
COEF. OF VARIATION (CV):##										5.9	8.3

*CK = CHECK, SCN = SOYBEAN CYST NEMATODE CHECK, **1 = EXCELLENT, 5 = POOR, ***GREEN AT HARVEST.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS - BROOKINGS, SD.
SDSU AGRONOMY FARM, LATE-SEEDED TRIAL, SEEDED JUNE 12, 1992.

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
------	DASSEL	0	***	26	1	2892	R	R	R	22.9	33.7
------	EVANS	0	***	30	1	2838	R	S	S	22.4	33.6
------	MAPLE RIDGE	00	111	24	2	2508	S	S	S	22.3	.
------	CLAY	00	***	25	1	2609	S	S	S	22.2	31.6
PIONEER	9091	0	***	24	1	2785	X	X	X	21.4	.
------	OZZIE	0	***	28	1	2565	R	S	S	20.9	34.1
DAIRYLAND	DSR-045	0	***	28	1	2820	M	M	M	20.6	.
------	AGASSIZ	0	***	26	1	2594	R	R	R	20.4	.
------	DAWSON CK*	0	***	28	1	2929	R	S	S	19.8	35.0
SIGCO	34	00	***	27	1	2522	S	S	S	19.5	.
------	SIMPSON	0	***	26	1	3290	R	S	S	18.8	34.2
------	MCCALL CK*	00	***	27	1	2609	S	S	S	18.2	29.3
TOP FARM	0500	0	***	28	1	2236	S	S	S	17.9	.
TOP FARM	0100	0	***	28	1	2838	X	X	X	17.3	.
NORTHRUP KING	S07-80	0	***	28	1	2987	S	S	S	17.3	.
PIONEER	9062	0	***	26	1	3414	X	X	X	16.9	.
------	SIBLEY CK*	I	***	28	1	2820	R	S	S	15.6	.
------	GLENWOOD	0	***	25	1	2768	R	S	S	13.5	31.9
------	SWIFT	0	***	31	2	3914	S	S	S	11.5	28.6
MUSTANG	M-1180	I	***	28	1	3290	S	S	S	5.6	.
TEST AVERAGES			***	27	1	2861				18.2	32.4
LSD (5%) VALUE:				2.6	0.4					2.4	###NS
MINIMUM BEST VALUE:#										20.6	
COEF. OF VARIATION (CV):##										8.1	6.6

*CK = CHECK VARIETY, **1 = EXCELLENT, 5 = POOR, ***GREEN AT HARVEST
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.
###NS - DIFFERENCES AMONG AVERAGES WITHIN A COLUMN ARE NONSIGNIFICANT.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS (IRRIGATED, NO TILL) - PIERRE, SD.
DAKOTA LAKES RESEARCH FARM, MATURITY GROUP-I, SEEDED JUNE 10, 1992.

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
ARROWHEAD BRAND	8500	I	***	27	1	3007	S	S	S	38.7	.
DEKALB	CX187	I	***	30	1	3266	S	S	S	37.8	42.0
------	PARKER	I	***	33	2	3047	R	S	S	37.4	42.2
------	SIBLEY CK*	I	***	32	1	2948	R	S	S	37.2	43.7
------	KATO	I	***	32	1	2365	R	S	S	36.0	41.0
------	KASOTA	I	***	26	1	3363	R	R	S	33.9	43.2
GOLDEN HARVEST	X112	I	***	31	1	2929	S	S	S	32.3	.
------	WEBER	I	***	31	1	4054	R	S	S	32.2	44.2
SEXAUER	SX 1991	I	***	31	1	3047	S	S	S	31.9	.
------	DAWSON CK*	0	***	31	1	2838	R	S	S	31.2	36.9
GOLDEN HARVEST	H-1150	I	***	31	1	3847	S	S	S	31.2	.
------	HARDIN	I	***	33	2	4365	R	S	S	31.1	38.7
SEXAUER	SX 1890	I	***	30	1	4127	S	S	S	30.3	.
------	BSR 101	I	***	31	1	3575	R	S	S	30.0	40.5
PIONEER	9171	I	***	27	1	3243	S	X	X	29.9	39.5
------	KENWOOD CK*	II	***	31	1	3661	S	S	S	29.8	.
------	BERT	I	***	33	1	3314	R	S	S	29.5	39.5
DAIRYLAND	DSR-173	I	***	27	1	2929	R	S	S	29.0	.
------	LESLIE	I	***	31	1	2948	R	S	S	28.5	39.7
PIONEER	9162	I	***	25	1	2785	S	X	X	28.0	.
MUSTANG	M-1180	I	***	27	2	3721	S	S	S	27.7	.
------	ALPHA	I	***	32	1	4204	S	S	S	26.6	35.6
------	BELL (SCN)-CK*	I	***	26	1	3363	S	S	S	25.6	34.1
TEST AVERAGES			***	30	1	3345				31.6	40.1
LSD (5%) VALUE:				3.5	0.6					6.2	5.9
MINIMUM BEST VALUE:#										32.6	38.4
COEF. OF VARIATION (CV):##										11.9	10.2

*CK = CHECK, SCN = SOYBEAN CYST NEMATODE CHECK, **1 = EXCELLENT, 5 = POOR, ***GREEN AT HARVEST.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS (IRRIGATED, NO TILL) - PIERRE, SD.
DAKOTA LAKES RESEARCH FARM, MATURITY GROUP-II, SEEDED JUNE 10, 1992.

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
NORTHRUP KING	S 20-20	II	***	28	1	2838	R	S	S	37.7	.
------	SIBLEY CK*	I	***	31	1	3131	R	S	S	34.8	42.9
------	KENWOOD CK*	II	***	27	1	3815	S	S	S	34.0	42.7
------	STURDY	II	***	30	1	2929	R	S	S	33.1	41.6
PIONEER	9241	II	***	25	1	3632	S	S	S	32.6	.
MUSTANG	M-1200	II	***	28	1	4451	S	S	S	32.6	46.5
GOLDEN HARVEST	X263	II	***	27	1	4165	S	S	S	31.8	.
------	ELGIN	II	***	26	1	3492	S	S	S	31.8	38.1
------	ERIE	II	***	29	1	3691	R	X	R	31.7	40.1
------	WELLS II	II	***	29	1	4054	R	R	S	31.7	40.9
SEXAUER	SX 2390	II	***	28	1	4935	S	S	S	31.7	.
------	ELGIN 87	II	***	27	1	3439	R	R	R	31.6	26.4
PIONEER	9232	II	***	26	1	2820	X	X	X	31.1	.
------	CORSOY 79	II	***	30	1	3721	R	R	S	30.3	41.4
------	MARCUS	II	***	27	1	3314	S	S	S	30.1	40.4
------	HACK	II	***	31	1	3547	R	S	R	29.5	40.6
DEKALB	CX210	II	***	26	1	4127	S	S	S	29.4	.
NORTHRUP KING	S 24-92	II	***	26	1	3948	S	S	S	28.9	.
DAHLGREN	D3252	II	***	26	1	3492	S	S	S	28.2	.
------	CONRAD	II	***	27	1	3847	X	X	X	27.7	.
------	CENTURY 84	II	***	28	1	3815	R	R	R	27.5	39.4
------	CHAPMAN	II	***	29	1	4451	R	R	R	27.3	39.3
DEKALB	CX264	II	***	28	1	3197	S	S	S	27.1	.
DAHLGREN	D3223	II	***	28	1	4324	S	S	S	26.7	43.9
PIONEER	9231	II	***	25	1	4204	R	R	R	25.3	.
------	BURLISON	II	***	26	1	3519	R	X	R	24.4	36.2
------	AMCOR 89	II	***	31	1	4633	R	R	R	23.7	36.2
------	BELL (SCN)-CK*	I	***	24	1	3243	S	S	S	22.3	.
NORTHRUP KING	S 28-01	II	***	24	1	4365	R	R	S	21.9	.
------	RESNIK CK*	III	***	27	1	4495	R	R	R	19.5	.
------	NEWTON	II	***	33	1	3783	R	S	S	18.9	32.9
TEST AVERAGES			***	28	1	3788				29.1	39.4
LSD (5%) VALUE:				2.8	0.2					5.5	###NS
MINIMUM BEST VALUE:#										32.3	
COEF. OF VARIATION (CV):##										11.6	8.9

*CK = CHECK, SCN = SOYBEAN CYST NEMATODE CHECK, **1 = EXCELLENT, 5 = POOR, ***GREEN AT HARVEST.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.
###NS - DIFFERENCES AMONG AVERAGES WITHIN A COLUMN ARE NONSIGNIFICANT.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS - SIOUX FALLS, SD.
TOM WINTERSTEEN FARM, MATURITY GROUP-I, SEEDED MAY 11, 1992.

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$			(BU/AC)
KRUGER	K1919	I	141	33	1	3068	S	S	S	48.1	.
PRAIRIE BRAND	PB193	I	138	31	1	2671	X	X	X	45.9	.
PROFISEED	PS1807	I	140	32	1	2686	S	S	S	45.7	.
DEKALB	CX187	I	137	35	2	2735	S	S	S	45.6	35.3
SEXAUER	SX 1890	I	141	33	1	3197	S	S	S	45.4	.
KRUGER	K1808	I	136	31	1	2719	S	S	S	45.0	.
SIGCO	94	I	139	32	1	2735	S	S	S	44.9	38.2
ARROWHEAD BRAND	8700	I	137	34	2	2838	S	S	S	44.5	.
SEXAUER	SX 1991	I	138	33	2	2948	S	S	S	44.3	.
GOLDEN HARVEST	H-1196	I	140	31	2	3007	S	S	S	44.0	.
TERRA	FLAG	I	136	34	2	2686	S	S	S	43.7	36.3
MUSTANG	M-1140	I	136	32	1	2686	S	S	S	43.1	38.2
SANDS	SOI 166	I	138	35	1	2702	S	S	S	42.9	35.7
------	KENWOOD CK*	II	140	35	2	2892	S	S	S	42.4	.
KRUGER	K1818	I	138	30	2	2686	S	S	S	42.4	.
ARROWHEAD BRAND	8500	I	136	32	1	2551	S	S	S	42.4	.
DESOY	181	I	137	31	1	3047	S	S	S	42.2	.
CIBA	3172	I	142	31	1	2352	X	X	X	41.9	.
HY-VIGOR	ROW-99	I	137	30	1	2820	S	S	S	41.9	35.7
ASGROW	A1929	I	139	30	1	2967	R	R	R	41.8	36.3
KALTENBERG	KB171	I	138	32	1	2655	S	S	S	41.7	.
MUSTANG	M-1150	I	136	34	2	2752	S	S	S	41.5	34.5
SANDS	SOI 117	I	143	31	1	2702	S	S	S	41.5	.
------	KATO	I	137	33	2	2193	R	S	S	41.1	33.8
ASGROW	A1662	I	137	31	1	2551	R	R	R	40.9	.
GOLDEN HARVEST	X112	I	135	30	1	2768	S	S	S	40.8	.
ARROWHEAD BRAND	8600	I	137	33	2	2719	S	S	S	40.2	.
HOEGEMEYER	190	I	138	28	1	2838	S	S	S	40.2	.
HILLCREST	HC311	I	137	34	1	2686	S	S	S	39.9	.
------	WEBER	I	136	35	2	3388	R	S	S	39.4	34.5
------	PARKER	I	139	34	1	2735	R	S	S	39.4	33.6
TOP FARM	TF1406	I	138	32	1	2580	S	S	S	39.2	.
KALTENBERG	KB192	I	140	34	2	2671	R	S	S	39.1	.
------	BSR 101	I	139	33	1	3439	R	S	S	38.9	33.6
TERRA	RUNNER III	I	138	33	1	2609	S	S	S	37.5	35.1

SIOUX FALLS - MATURITY GROUP-I (CONTINUED).

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**		$			(BU/AC)	
HY-VIGOR	EX:H620	I	144	34	2	3131	R	R	R	37.3	.
------	BELL (SCN)-CK*	I	142	30	2	2702	S	S	S	37.0	33.0
PIONEER	9162	I	137	31	1	2467	S	X	X	36.8	34.2
------	BERT	I	138	32	2	2838	R	S	S	36.5	34.5
------	SIBLEY CK*	I	134	33	1	2785	R	S	S	36.3	34.6
------	KASOTA	I	139	32	1	3068	R	R	S	36.3	32.7
TERRA	TS175	I	140	34	1	2910	X	X	X	36.1	.
------	HARDIN	I	137	32	1	3363	R	S	S	35.6	32.0
PIONEER	9171	I	137	29	1	2768	S	X	X	35.4	33.7
------	LESLIE	I	139	34	1	2802	R	S	S	34.4	31.9
------	ALPHA	I	136	30	2	3847	S	S	S	33.1	29.2
TOP FARM	TF1200	I	134	26	2	3197	S	S	S	32.4	.
------	DAWSON CK*	0	129	27	2	3290	R	S	S	29.3	25.7
MUSTANG	M-1180	I	142	31	1	2910	S	S	S	24.0	.
TEST AVERAGES			138	32	1	2861				39.8	34.0
LSD (5%) VALUE:			0.7	3.9	0.8					5.4	4.9
MINIMUM BEST VALUE:#										42.8	33.4
COEF. OF VARIATION (CV):##										8.4	13.2

*CK = CHECK, SCN = SOYBEAN CYST NEMATODE CHECK, **1 = EXCELLENT, 5 = POOR.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS - SIOUX FALLS, SD.
TOM WINTERSTEEN FARM, MATURITY GROUP-II, SEEDED MAY 11, 1992.

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
YIELD KING	K2525	II	141	31	1	2686	S	S	S	54.4	.
SANDS	SOI 214	II	140	34	2	3110	S	S	S	51.4	.
SANDS	SOI 237	II	140	34	1	2855	S	S	S	51.0	.
ASGROW	A2242	II	139	31	1	3314	R	R	R	50.4	.
MUSTANG	M-1200	II	140	34	2	3197	S	S	S	49.4	42.1
SEXAUER	SX 2785	II	142	39	1	3027	S	S	S	49.1	.
KRUGER	K2777	II	***	39	1	3153	S	S	S	48.9	.
STINE	2250	II	140	32	2	2948	S	S	S	48.7	.
KALTENBERG	KB270	II	142	39	1	3220	R	S	S	48.5	.
TERRA	TS253	II	143	32	1	2838	S	S	S	48.3	.
ISC-PAYCO	9225	II	141	33	1	2967	S	S	S	48.2	.
DESOY	277	II	142	38	1	3007	S	S	S	48.1	.
KALTENBERG	KB261	II	***	42	1	2987	S	S	S	47.8	.
MUSTANG	E-1222	II	147	34	1	2802	S	S	S	47.7	.
PROFISEED	PS2555	II	140	32	1	3110	S	S	S	47.7	.
KALTENBERG	KB241	II	142	32	1	2929	S	S	S	47.5	.
PRAIRIE BRAND	PB277	II	143	39	1	3027	X	X	X	47.5	.
ISC-PAYCO	8927	II	145	39	1	3131	S	S	S	47.3	.
TERRA	TS205	II	140	36	2	3175	S	S	S	47.0	.
NORTHRUP KING	S 24-92	II	141	33	2	3153	S	S	S	46.9	.
ASGROW	A2506	II	143	36	2	2948	R	R	R	46.7	.
ISC-PAYCO	9023	II	139	32	1	3314	S	S	S	46.6	.
TERRA	FLAME	II	***	36	2	3068	S	S	S	46.5	.
------	CONRAD	II	143	35	2	2671	X	X	X	46.4	.
HY-VIGOR	6260	II	143	39	2	2768	X	X	X	46.2	40.1
CIBA	3202	II	143	37	1	2735	X	X	X	46.2	.
KRUGER	K2790	II	142	40	1	3110	S	S	S	46.0	.
HOEGEMEYER	225	II	140	31	1	2929	S	S	S	46.0	.
NORTHRUP KING	S 20-20	II	137	33	1	2855	R	S	S	45.9	.
PIONEER	9273	II	144	36	2	2735	S	S	S	45.6	.
GOLD COUNTRY	GSC DUNDEE	II	141	35	1	2671	R	R	R	45.3	.
PRAIRIE BRAND	PB8700	II	143	35	3	3088	S	S	S	45.2	.
HOEGEMEYER	210	II	141	36	1	3290	S	S	S	45.2	.
HOEGEMEYER	262	II	145	32	2	3088	S	S	S	44.6	.
STINE	2220	II	140	32	2	3068	R	S	S	44.3	.
DEKALB	CX259	II	143	33	2	2820	S	S	S	44.1	.
------	CHAPMAN	II	143	35	2	2752	R	R	R	44.1	36.3
DIAMOND	D210	II	141	36	2	2785	S	S	S	44.0	42.3
SIGCO	96	II	141	36	1	3266	S	S	S	44.0	.
HY-VIGOR	K-3903	II	148	37	3	2892	X	X	X	43.9	.
SANSGAARD	S-2210 EXP.	II	141	40	2	3068	S	S	S	43.9	.
PIONEER	9231	II	143	32	1	3290	R	R	R	43.7	.
------	KENWOOD CK*	II	139	35	2	2785	S	S	S	43.5	38.5
TOP FARM	TF1550	I	141	36	2	2967	S	S	S	43.5	.
SEXAUER	SX 2390	II	141	32	2	3338	S	S	S	43.3	.

SIOUX FALLS - MATURITY GROUP-II (CONTINUED).

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
SANDS	SOI 230	II	140	31	1	2624	R	S	S	43.1	.
------	ERIE	II	142	35	2	3243	R	X	R	43.1	36.6
GOLDEN HARVEST	H-1229	II	140	34	1	2551	S	S	S	42.9	.
HILLCREST	HC560	II	143	36	2	3153	S	S	S	42.7	.
------	ELGIN	II	139	35	2	2768	S	S	S	42.6	34.4
PRAIRIE BRAND	PB200	II	139	28	1	2768	R	S	S	42.5	.
------	CORSOY 79	II	140	35	1	2838	R	R	S	42.2	36.6
ASGROW	A2396	II	142	36	1	3243	R	S	S	41.9	36.2
DESOY	298	II	148	38	2	3131	S	S	S	41.9	.
DEKALB	CX264	II	141	33	1	3492	S	S	S	41.8	.
DESOY	272	II	142	35	1	3027	S	S	S	41.8	.
HY-VIGOR	EX:K-300	II	145	35	2	3243	R	R	R	41.8	.
PIONEER	9241	II	142	32	1	2929	S	S	S	41.7	35.0
------	CENTURY 84	II	147	38	1	2873	R	R	R	41.7	34.5
------	WELLS II	II	141	39	2	2967	R	R	S	41.4	35.9
DEKALB	CX210	II	139	41	2	3439	S	S	S	41.4	.
PROFISEED	PSX235	II	143	40	2	3815	S	S	S	41.0	.
------	MARCUS	II	142	32	1	2987	S	S	S	40.9	36.2
CIBA	3282	II	***	32	1	2820	X	X	X	40.8	.
YIELD KING	K2323	II	140	36	2	3439	S	S	S	40.6	.
HILLCREST	HC424	II	144	36	1	3197	S	S	S	39.7	37.2
------	RESNIK CK*	III	***	35	1	3220	R	R	R	39.3	.
------	BELL (SCN)-CK*	I	143	33	2	2508	S	S	S	39.2	.
KRUGER	K2707	II	146	35	2	2752	S	S	S	38.6	.
GOLDEN HARVEST	H-1233	II	140	33	2	3388	S	S	S	38.6	.
------	ELGIN 87	II	139	34	2	2967	R	R	R	38.5	25.5
------	BURLISON	II	145	31	2	2802	R	X	R	38.1	35.4
------	SIBLEY CK*	I	137	36	2	2967	R	S	S	38.0	34.4
MUSTANG	M-1225	II	142	33	2	3131	S	S	S	37.4	36.4
DIAMOND	D200	II	139	33	2	3088	S	S	S	36.2	35.6
------	AMCOR 89	II	145	46	2	3197	R	R	R	36.2	31.8
------	STURDY	II	143	36	2	2580	R	S	S	36.0	35.8
HILLCREST	HC201	II	141	36	2	3243	S	S	S	35.7	.
------	HACK	II	146	35	1	3068	R	S	R	35.7	33.3
YIELD KING	K2895	II	***	37	1	3414	S	S	S	34.8	.
------	NEWTON	II	148	37	2	3314	R	S	S	32.3	30.7
TEST AVERAGES			122	35	1	3020				43.6	35.7
LSD (5%) VALUE:			1.3	3.4	0.9					5.3	6.0
MINIMUM BEST VALUE:#										49.2	36.4
COEF. OF VARIATION (CV):##										7.6	9.7

*CK = CHECK, SCN = SOYBEAN CYST NEMATODE CHECK, **1 = EXCELLENT, 5 = POOR.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS - FREEMAN, SD.
GORDON BROCKMUELLER FARM, MATURITY GROUP-I, SEEDED MAY 11, 1992.

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
------	KENWOOD CK*	II	138	38	2	2686	S	S	S	53.1	.
------	BSR 101	I	139	37	1	2967	R	S	S	48.2	30.4
TERRA	RUNNER III	I	137	35	1	2702	S	S	S	47.6	29.1
SIGCO	94	I	137	33	1	2735	S	S	S	46.8	30.9
PIONEER	9162	I	135	32	1	2802	S	X	X	46.7	27.1
ARROWHEAD BRAND	8500	I	134	34	1	2551	S	S	S	46.5	.
TERRA	TS175	I	138	34	1	2802	X	X	X	46.3	.
------	PARKER	I	137	37	2	2702	R	S	S	45.9	29.5
------	WEBER	I	137	36	2	3466	R	S	S	45.7	30.7
------	BELL (SCN)-CK*	I	139	32	1	2594	S	S	S	44.3	28.6
SANDS	SOI 118	I	137	31	1	2929	R	R	S	44.1	.
STAR	EXP8412	I	135	33	1	2929	R	S	S	43.9	.
PIONEER	9171	I	134	31	1	3007	S	X	X	43.7	27.4
------	HARDIN	I	135	34	2	3290	R	S	S	43.4	27.3
------	KATO	I	135	32	1	2236	R	S	S	43.2	26.9
------	LESLIE	I	139	36	1	2702	R	S	S	43.2	27.9
TERRA	FLAG	I	135	34	1	2536	S	S	S	43.2	28.2
TOP FARM	TF1406	I	134	34	1	2352	S	S	S	42.8	.
------	KASOTA	I	136	33	1	2987	R	R	S	42.6	26.2
ARROWHEAD BRAND	8600	I	135	34	1	2481	S	S	S	42.6	.
MUSTANG	M-1180	I	139	38	1	2719	S	S	S	40.3	.
------	ALPHA	I	136	36	2	3175	S	S	S	38.9	23.7
------	SIBLEY CK*	I	134	33	2	2752	R	S	S	38.7	25.1
------	DAWSON CK*	0	125	31	2	2838	R	S	S	37.2	22.2
TOP FARM	TF1200	I	131	29	1	3131	S	S	S	36.8	.
------	BERT	I	135	36	2	2929	R	S	S	35.5	25.6
TEST AVERAGES			136	34	1	2808				43.5	27.5
LSD (5%) VALUE:			1.0	3.5	0.4					5.0	3.8
MINIMUM BEST VALUE:#										43.3	27.2
COEF. OF VARIATION (CV):##										7.1	10.9

*CK = CHECK, SCN = SOYBEAN CYST NEMATODE CHECK, **1 = EXCELLENT, 5 = POOR.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS - FREEMAN, SD.
GORDON BROCKMULLER FARM, MATURITY GROUP-II, SEEDED MAY 11, 1992.

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
MW GENETICS	G2410	II	140	35	1	2686	X	X	X	53.1	.
DEKALB	CX259	II	140	36	1	2580	S	S	S	52.5	.
------	ERIE	II	142	35	2	2873	R	X	R	52.1	31.7
PROFISEED	PS2555	II	141	34	1	2686	S	S	S	51.9	.
PRAIRIE BRAND	PB8700	II	139	35	2	2454	S	S	S	51.7	.
MW GENETICS	G2440	II	139	33	1	2768	X	X	X	51.6	.
MUSTANG	M-1325	II	142	38	2	2929	S	S	S	51.5	.
TERRA	FLAME	II	***	38	1	2967	S	S	S	51.4	.
HOEGEMEYER	210	II	139	34	1	3068	S	S	S	51.4	32.4
KRUGER	K2777	II	***	40	1	2948	S	S	S	51.3	.
SANDS	SOI 287	II	140	35	1	2551	S	S	S	51.3	36.2
MUSTANG	M-1200	II	139	34	1	2967	S	S	S	50.9	32.9
DIAMOND	D210	II	140	35	1	2536	S	S	S	50.7	34.2
PROFISEED	PS3040	II	141	40	1	2948	S	S	S	50.7	.
TERRA	TS253	II	140	34	1	2929	S	S	S	50.7	.
HY-VIGOR	K-3903	II	143	36	1	2802	X	X	X	50.7	.
GOLDEN HARVEST	H-1260	II	138	35	1	2389	S	S	S	50.5	.
DESOY	277	II	141	38	1	2892	S	S	S	50.3	.
PIONEER	9273	II	143	35	1	2702	S	S	S	50.1	.
------	ELGIN 87	II	139	36	1	2624	R	R	R	49.8	29.5
PIONEER	9231	II	143	34	1	2892	R	R	R	49.6	.
NORTHRUP KING	S 28-01	II	148	37	1	3088	R	R	S	49.4	.
HOEGEMEYER	225	II	141	35	1	2785	S	S	S	49.4	.
LEGEND SEEDS	LS2501	II	145	36	1	2389	S	S	S	49.3	.
GOLDEN HARVEST	X263	II	141	36	1	2873	S	S	S	49.2	.
DESOY	272	II	144	37	1	2594	S	S	S	48.8	.
YIELD KING	K2202	II	139	38	1	2967	S	S	S	48.8	.
SIGCO	96	II	141	37	1	3131	S	S	S	48.6	.
CIBA	3202	II	141	34	1	2609	X	X	X	48.5	.
CIBA	3282	II	148	35	1	2873	X	X	X	48.5	.
ISC-PAYCO	9225	II	142	33	1	2624	S	S	S	48.4	.
KRUGER	K2707	II	146	35	2	2640	S	S	S	48.1	.
YIELD KING	K2895	II	***	37	1	3266	S	S	S	47.9	.
KRUGER	K2790	II	140	40	1	2948	S	S	S	47.9	.
CIBA	3258	II	139	36	1	2655	X	X	X	47.8	34.3
SANDS	SOI 217	II	143	38	1	2873	S	S	S	47.5	.
HY-VIGOR	EX:H-620	II	142	43	2	3131	R	R	S	47.5	.
------	CONRAD	II	141	36	1	3007	X	X	X	47.4	.
------	ELGIN	II	140	36	1	2454	S	S	S	47.4	26.6
------	KENWOOD CK*	II	138	36	2	2785	S	S	S	47.4	28.8

FREEMAN - MATURITY GROUP-II (CONTINUED).

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**		$			(BU/AC)	
STINE	2250	II	141	32	1	2855	S	S	S	47.3	.
------	MARCUS	II	140	32	1	2855	S	S	S	47.2	31.7
TERRA	TS205	II	138	31	1	3110	S	S	S	47.2	.
ISC-PAYCO	8927	II	142	40	1	2820	S	S	S	47.2	.
PRAIRIE BRAND	PB221B	II	141	34	1	2768	S	S	S	47.0	.
STAR	EX330	II	147	35	2	2838	S	S	S	46.8	.
------	STURDY	II	140	36	1	2580	R	S	S	46.6	30.4
PRAIRIE BRAND	PB222EXP	II	140	38	1	3047	X	X	X	46.5	.
LEGEND SEEDS	LS2701	II	145	40	1	2873	S	S	S	46.4	.
SANSGAARD	S-2310 EXP.	II	140	38	1	2910	S	S	S	46.1	.
DESOY	298	II	147	38	1	2892	S	S	S	46.0	.
STAR	EX9229	II	***	35	1	2929	S	S	S	45.9	.
PROFISEED	PSX235	II	143	39	2	3068	S	S	S	45.8	.
HOEGEMEYER	241	II	148	37	1	2910	S	S	S	45.6	.
SANDS	SOI 296	II	140	32	1	2855	S	S	S	45.5	.
HY-VIGOR	EX:K-300	II	144	36	1	2481	R	R	R	45.4	.
------	BURLISON	II	144	35	1	2415	R	X	R	45.3	31.9
------	CHAPMAN	II	141	37	1	2402	R	R	R	45.3	29.8
ISC-PAYCO	9023	II	139	33	1	2855	S	S	S	45.2	.
TOP FARM	TF1550	I	138	33	1	2655	S	S	S	45.1	.
------	RESNIK CK*	III	***	39	1	3088	R	R	R	44.9	.
------	CORSOY 79	II	138	37	1	2929	R	R	S	44.9	30.0
YIELD KING	K2323	II	138	34	1	2929	S	S	S	44.3	.
GOLDEN HARVEST	H-1233	II	140	34	1	2892	S	S	S	44.3	.
HY-VIGOR	ROW KING	II	139	34	2	2686	R	R	R	44.3	.
------	CENTURY 84	II	146	40	1	2428	R	R	R	44.2	30.9
HY-VIGOR	EX:HV116	II	140	37	1	2802	X	X	X	43.8	.
DIAMOND	D200	II	139	36	1	2640	S	S	S	43.8	.
------	NEWTON	II	146	42	2	2967	R	S	S	43.5	29.0
MUSTANG	M-1225	II	143	33	1	2752	S	S	S	43.2	31.2
------	AMCOR 89	II	142	44	2	2802	R	R	R	42.6	30.8
PIONEER	9241	II	139	28	1	2768	S	S	S	42.5	30.2
DEKALB	CX264	II	143	33	1	2948	S	S	S	41.8	29.9
------	BELL (SCN) CK*	I	138	33	1	2495	S	S	S	41.5	.
------	HACK	II	145	34	1	2522	R	S	R	41.3	29.8
------	WELLS II	II	140	39	1	2686	R	R	S	40.8	28.5
LEGEND SEEDS	LS2105	II	141	34	1	2948	S	S	S	38.4	.
------	SIBLEY CK*	I	133	33	2	2640	R	S	S	38.2	26.7
TEST AVERAGES			124	36	1	2793				47.2	30.8
LSD (5%) VALUE:			0.5	2.9	0.1					5.1	###NS
MINIMUM BEST VALUE:#										48.1	
COEF. OF VARIATION (CV):##										6.7	9.6

*CK = CHECK, SCN = SOYBEAN CYST NEMATODE CHECK, **1 = EXCELLENT, 5 = POOR, ***GREEN AT HARVEST.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.
###NS - DIFFERENCES AMONG AVERAGES WITHIN A COLUMN ARE NONSIGNIFICANT.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS - BERESFORD, SD.
S.E. RESEARCH FARM, MATURITY GROUP-I, SEEDED MAY 7, 1992.

BRAND	VARIETY	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	PHYTOPHTHORA REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
GOLDEN HARVEST	H-1196	I	138	35	2	3047	S	S	S	57.1	.
SANDS	SOI 117	I	144	36	3	2735	S	S	S	56.8	.
SIGCO	94	I	140	36	3	3007	S	S	S	55.6	.
------	HARDIN	I	138	34	3	2855	R	S	S	54.9	40.3
------	PARKER	I	137	37	4	2609	R	S	S	54.8	45.0
------	KENWOOD CK*	II	142	38	3	3047	S	S	S	54.7	.
AGRIPRO	AP1989	I	139	35	2	2768	R	R	S	54.5	.
CIBA	3172	I	141	35	2	2352	X	X	X	54.4	.
------	LESLIE	I	141	37	2	2820	R	S	S	53.7	46.3
DESOY	181	I	137	33	1	2838	S	S	S	53.3	.
FONTANELLE	3550	I	140	32	2	2768	S	S	S	52.8	45.4
PIONEER	9162	I	139	35	1	2454	S	X	X	52.4	41.0
SEXAUER	SX 1991	I	138	35	2	2702	S	S	S	50.9	.
------	BSR 101	I	140	35	2	3131	R	S	S	50.8	42.1
------	KATO	I	138	37	2	2204	R	S	S	50.4	42.1
------	BELL (SCN)-CK*	I	141	30	2	2565	S	S	S	49.8	40.5
------	WEBER	I	137	37	3	3519	R	S	S	49.8	46.6
------	KASOTA	I	139	34	2	2967	R	R	S	49.7	42.5
MUSTANG	M-1180	I	142	34	3	2838	S	S	S	49.5	.
------	SIBLEY CK*	I	139	36	2	2536	R	S	S	48.4	42.2
SANDS	SOI 118	I	141	31	2	2752	R	R	S	47.9	.
HY-VIGOR	EX:HV270	I	139	38	2	2855	X	X	X	47.3	.
PIONEER	9171	I	134	31	1	3007	S	X	X	46.6	39.1
------	BERT	I	141	36	2	2892	R	S	S	45.5	40.3
------	ALPHA	I	136	34	4	3661	S	S	S	43.4	34.7
------	DAWSON CK*	0	126	31	4	2802	R	S	S	42.0	34.9
TEST AVERAGES			139	35	2	2850				50.9	41.5
LSD (5%) VALUE:			1.6	3.5	1.1					5.1	4.8
MINIMUM BEST VALUE:#										52.1	41.9
COEF. OF VARIATION (CV):##										6.2	7.1

*CK = CHECK, SCN = SOYBEAN CYST NEMATODE CHECK, **1 = EXCELLENT, 5 = POOR.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS - BERESFORD, SD.
S.E. RESEARCH FARM, MATURITY GROUP-II, SEEDED MAY 7, 1992.

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
ASGROW	A2242	II	138	33	1	2987	R	R	R	65.9	.
ISC-PAYCO	9023	II	142	34	2	2892	S	S	S	65.4	.
KRUGER	K2777	II	148	38	3	2768	S	S	S	64.6	.
FONTANELLE	4052	II	142	39	2	2873	X	X	X	64.5	.
PRAIRIE BRAND	PB225	II	141	35	2	3007	S	S	S	64.3	47.3
C & D SEEDS	C & D 222	II	142	34	2	3047	S	S	S	63.6	.
DAHLGREN	D3223	II	142	35	2	2873	S	S	S	63.2	44.2
ICI	D260	II	142	33	2	2719	S	S	S	63.1	.
LATHAM	660	II	140	33	1	2640	S	S	S	63.1	.
HY-VIGOR	K-3903	II	146	36	4	2873	X	X	X	62.2	.
GOLD COUNTRY	GSC HADLEY	II	143	38	3	2873	S	S	S	61.8	.
MUSTANG	M-1325	II	145	38	3	2967	S	S	S	61.4	.
FONTANELLE	4701	II	142	43	1	2987	X	X	X	61.3	.
GOLDEN HARVEST	H-1271	II	145	42	2	3068	S	S	S	61.2	.
PROFISEED	PS2700	II	146	38	2	2671	S	S	S	61.1	.
SEXAUER	SX 2785	II	146	41	2	2987	S	S	S	60.6	.
SANDS	SOI 217	II	145	42	1	2948	S	S	S	60.6	46.8
SEXAUER	SX 2390	II	142	36	4	3153	S	S	S	59.9	.
ISC-PAYCO	9225	II	143	31	1	2892	S	S	S	59.6	.
YIELD KING	K2895	II	148	37	2	3197	S	S	S	59.6	.
DESOY	277	II	143	38	1	2671	S	S	S	59.5	.
GOLDEN HARVEST	X263	II	141	34	1	3047	S	S	S	59.5	.
------	CONRAD	II	143	33	2	2929	X	X	X	59.3	.
DIAMOND	D210	II	142	36	2	2594	S	S	S	58.9	46.2
DAHLGREN	D3252	II	142	35	2	2580	S	S	S	58.8	.
LATHAM	440	II	139	33	2	3661	S	S	S	58.8	.
STINE	2355	II	148	38	3	3068	S	S	S	58.7	.
HY-VIGOR	EX:K-300	II	146	35	3	2948	R	R	R	58.6	.
HOEGEMEYER	225	II	143	32	1	2752	S	S	S	58.6	.
ISC-PAYCO	8927	II	143	39	1	2820	S	S	S	58.3	.
YIELD KING	K2202	II	142	42	2	3007	S	S	S	58.0	.
SANDS	SOI 214	II	144	36	2	2855	S	S	S	57.7	.
CIBA	3202	II	144	37	2	2481	X	X	X	57.6	.
PRAIRIE BRAND	PB234	II	142	33	1	3027	S	S	S	57.6	.
------	KENWOOD CK*	II	142	39	3	2609	S	S	S	57.5	42.9
HOEGEMEYER	262	II	144	34	2	3088	S	S	S	56.6	.
DESOY	272	II	143	37	2	2609	S	S	S	56.5	.
------	RESNIK CK*	III	152	36	2	3047	R	R	R	56.1	.
C & D SEEDS	C & D 272	II	148	36	2	3338	S	S	S	55.7	.
DEKALB	CX210	II	139	39	2	2820	S	S	S	55.5	.
KRUGER	K2790	II	145	40	1	2785	S	S	S	55.5	.
STAR	EX330	II	147	36	4	2967	S	S	S	55.5	.
CIBA	3282	II	148	34	1	3175	X	X	X	55.4	.
------	ERIE	II	143	32	4	3088	R	X	R	55.1	41.9
------	MARCUS	II	142	37	2	2855	S	S	S	55.1	43.7

BERESFORD - MATURITY GROUP-II (CONTINUED).

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
MUSTANG	M-1210	II	146	42	4	2768	R	S	S	55.0	42.9
PIONEER	9241	II	143	32	1	2948	S	S	S	55.0	43.8
HOEGEMEYER	237	II	142	37	3	2609	S	S	S	54.9	.
SANDS	SOI 287	II	143	34	3	2702	S	S	S	54.9	45.1
PIONEER	9231	II	142	33	2	3088	R	R	R	54.5	.
NORTHRUP KING	S 24-92	II	143	33	1	3175	S	S	S	54.0	.
NORTHRUP KING	S 28-01	II	147	33	3	3363	R	R	S	54.0	.
PIONEER	9273	II	143	36	1	3047	S	S	S	54.0	.
SIGCO	96	II	141	36	1	3131	S	S	S	54.0	.
------	STURDY	II	143	37	3	2609	R	S	S	53.5	42.9
------	CHAPMAN	II	146	36	2	2565	R	R	R	53.4	40.6
DESOY	298	II	147	38	4	2671	S	S	S	53.2	.
GOLD COUNTRY	GSC WILMOT	II	134	40	2	2987	R	S	S	53.0	.
FONTANELLE	4100	II	143	36	2	2752	X	X	X	52.8	42.1
DEKALB	CX259	II	143	37	2	3175	S	S	S	52.6	43.3
------	CENTURY 84	II	148	37	3	2892	R	R	R	52.4	40.8
YIELD KING	K2323	II	140	39	1	2855	S	S	S	52.4	.
------	SIBLEY CK*	I	139	36	2	2481	R	S	S	51.7	40.7
PRAIRIE BRAND	PB244EXP	II	143	35	1	3131	X	X	X	51.5	.
DEKALB	CX264	II	142	34	2	2910	S	S	S	50.7	.
DAIRYLAND	DSR-217	II	141	33	1	3388	M	M	M	50.3	.
------	CORSOY 79	II	141	39	3	2910	R	R	S	50.1	40.3
MUSTANG	M-1225	II	143	35	3	2820	S	S	S	50.1	40.7
------	HACK	II	146	35	2	2752	R	S	R	49.8	40.2
------	BURLISON	II	145	38	3	2551	R	X	R	49.5	40.9
------	ELGIN	II	142	33	2	2624	S	S	S	49.3	40.0
GOLDEN HARVEST	H-1233	II	143	34	2	2967	S	S	S	49.2	.
------	WELLS II	II	142	37	2	2987	R	R	S	48.4	40.5
------	ELGIN 87	II	141	34	2	2565	R	R	R	48.0	34.2
LATHAM	650	II	143	36	2	2948	S	S	S	47.9	41.0
KRUGER	K2707	II	146	39	3	2929	S	S	S	47.1	.
------	NEWTON	II	148	42	5	3110	R	S	S	47.1	38.4
HY-VIGOR	EX:HV116	II	134	42	3	2987	X	X	X	47.1	.
------	BELL (SCN-CK)*	I	142	33	3	2580	S	S	S	47.0	.
------	AMCOR 89	II	148	41	4	2910	R	R	R	46.7	38.4
TEST AVERAGES			143	36	2	2899				55.9	41.9
LSD (5%) VALUE:			###NS	3.6	0.9					5.3	4.6
MINIMUM BEST VALUE:#										60.7	42.8
COEF. OF VARIATION (CV):##										5.9	6.1

*CK = CHECK, SCN = SOYBEAN CYST NEMATODE CHECK, **1 = EXCELLENT, 5 = POOR.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.
###NS - DIFFERENCES AMONG AVERAGES WITHIN A COLUMN ARE NONSIGNIFICANT.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS - ELK POINT, SD.
KEVIN BEERMAN FARM, MATURITY GROUP-I, SEEDED MAY 13, 1992.

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
TERRA	TS175	I	128	33	1	2702	X	X	X	56.5	.
------	KENWOOD CK*	II	133	37	1	2892	S	S	S	54.9	.
------	WEBER	I	125	34	1	3314	R	S	S	50.6	51.9
------	PARKER	I	127	33	1	2640	R	S	S	49.1	52.5
TOP FARM	TF1406	I	124	31	1	2735	S	S	S	48.3	.
TOP FARM	TF1550	I	128	34	1	2735	S	S	S	47.4	.
------	HARDIN	I	126	32	1	3110	R	S	S	46.8	47.7
------	KATO	I	124	30	1	2270	R	S	S	45.2	52.5
------	KASOTA	I	128	32	1	2948	R	R	S	45.0	51.0
------	BSR 101	I	127	30	1	3197	R	S	S	44.0	49.7
------	LESLIE	I	131	33	1	2702	R	S	S	43.6	51.3
MUSTANG	M-1180	I	131	29	1	3068	S	S	S	41.4	.
------	SIBLEY CK*	I	128	31	1	2671	R	S	S	41.2	46.7
------	ALPHA	I	127	33	1	3519	S	S	S	40.1	42.2
------	BELL (SCN)-CK*	I	133	29	1	2702	S	S	S	40.0	50.9
TOP FARM	TF1200	I	123	25	1	2785	S	S	S	38.1	.
------	BERT	I	128	37	1	2785	R	S	S	37.2	48.4
------	DAWSON CK*	0	118	28	1	2987	R	S	S	36.5	38.9
TEST AVERAGES			127	32	1	2876				44.8	48.6
LSD (5%) VALUE:			1.4	4.7						7.0	7.0
MINIMUM BEST VALUE:#										49.6	45.6
COEF. OF VARIATION (CV):##										9.4	8.6

*CK = CHECK, SCN = SOYBEAN CYST NEMATODE CHECK, **1 = EXCELLENT, 5 = POOR.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS - ELK POINT, SD.
KEVIN BEERMAN FARM, MATURITY GROUP-II, SEEDED MAY 13, 1992.

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
KRUGER	K2777	II	138	36	1	2820	S	S	S	62.3	.
FONTANELLE	4701	II	132	39	1	3047	X	X	X	61.9	.
SEXAUER	SX 2785	II	134	38	1	2802	S	S	S	60.4	.
SANSGAARD	S-2760	II	136	38	1	2702	S	S	S	59.3	.
HILLCREST	HC279	II	134	37	1	2873	S	S	S	59.2	.
KALTENBERG	KB270	II	136	38	1	3131	R	S	S	58.9	.
DESOY	298	II	138	37	1	2855	S	S	S	58.8	.
PRAIRIE BRAND	PB294	II	136	36	1	2785	X	X	X	58.5	.
TERRA	TS205	II	133	33	1	3197	S	S	S	58.2	.
------	KENWOOD CK*	II	132	35	1	3047	S	S	S	57.3	58.7
MW GENETICS	EX92240	II	135	36	1	2551	S	S	S	57.3	.
DESOY	272	II	132	32	1	2735	S	S	S	57.2	.
ISC-PAYCO	8927	II	134	37	1	2873	S	S	S	57.1	.
PRAIRIE BRAND	PB277	II	134	36	1	3110	X	X	X	57.0	.
YIELD KING	K2525	II	132	29	1	2892	S	S	S	57.0	.
TERRA	FLAME	II	141	35	1	3007	S	S	S	57.0	.
NORTHRUP KING	S 24-92	II	132	31	1	2987	S	S	S	56.9	.
LEGEND SEEDS	LS2701	II	134	39	1	2967	S	S	S	56.7	.
------	CONRAD	II	133	34	1	2624	X	X	X	56.6	.
HY-VIGOR	K-3903	II	136	35	1	2820	X	X	X	56.6	59.8
ISC-PAYCO	9023	II	132	32	1	3197	S	S	S	56.5	.
STAR	EX9227	II	137	38	1	2640	S	S	S	56.4	.
MUSTANG	E-1260	II	136	35	1	2967	S	S	S	56.3	.
EHRICH	E-250	II	133	34	1	2719	S	S	S	56.3	.
SANDS	SOI 217	II	134	36	1	3068	S	S	S	56.2	.
PROFISEED	PS3040	II	134	36	1	2967	S	S	S	56.1	.
HY-VIGOR	6260	II	132	35	1	2987	X	X	X	56.0	.
KALTENBERG	KB261	II	139	35	1	2752	S	S	S	55.9	.
LEGEND SEEDS	LS2993	II	137	36	1	3153	S	S	S	55.9	.
YIELD KING	K2895	II	135	32	1	3314	S	S	S	55.8	.
KALTENBERG	KB241	II	132	29	1	2873	S	S	S	55.6	.
DESOY	277	II	133	36	1	3047	S	S	S	55.5	.
LATHAM	660	II	131	28	1	2719	S	S	S	55.4	.
FONTANELLE	4100	II	131	32	1	2929	X	X	X	55.4	.
PIONEER	9232	II	133	30	1	2428	X	X	X	55.0	.

ELK POINT - MATURITY GROUP-II (CONTINUED).

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
PIONEER	9273	II	133	30	1	2967	S	S	S	54.9	58.3
KRUGER	K2790	II	133	37	1	2855	S	S	S	54.9	.
------	CHAPMAN	II	133	34	1	2609	R	R	R	54.8	50.7
SEXAUER	SX 2390	II	131	34	1	2929	S	S	S	54.7	.
ASGROW	A2242	II	130	29	1	3363	R	R	R	54.6	.
ASGROW	A2506	II	134	32	1	2855	R	R	R	54.5	.
DEKALB	CX291	II	137	38	1	3047	S	S	S	54.4	.
------	CENTURY 84	II	136	38	1	2735	R	R	R	54.3	54.9
MUSTANG	M-1325	II	136	33	1	3363	S	S	S	54.3	54.9
PROFISEED	PS2952E	II	137	32	1	3243	S	S	S	54.3	.
LEGEND SEEDS	LS2501	II	138	33	1	2967	S	S	S	54.0	.
ISC-PAYCO	9225	II	131	28	1	2671	S	S	S	53.6	.
------	ERIE	II	133	33	1	3338	R	X	R	53.4	52.8
STAR	EX9229	II	139	32	1	2967	S	S	S	53.2	.
MW GENETICS	G2440	II	130	28	1	2768	X	X	X	53.1	.
SANDS	SOI 237	II	132	27	1	3243	S	S	S	52.9	.
CIBA	3282	II	138	30	1	3363	X	X	X	52.7	.
------	RESNIK CK*	III	140	32	1	3243	R	R	R	52.7	.
FONTANELLE	4052	II	131	33	1	3088	X	X	X	52.5	.
DEKALB	CX259	II	133	33	1	3197	S	S	S	52.3	52.1
GOLDEN HARVEST	H-1271	II	135	35	1	3068	S	S	S	52.3	.
------	AMCOR 89	II	137	41	1	2967	R	R	R	52.3	51.1
EHRICH	E-280	II	135	34	1	2987	S	S	S	52.3	.
STINE	2170	II	135	36	1	2838	S	S	S	52.0	58.9
NORTHRUP KING	S 20-20	II	127	35	1	2594	R	S	S	51.9	.
LATHAM	920	II	137	31	1	3131	R	S	S	51.6	54.3
MW GENETICS	G2750	II	137	34	1	2768	X	X	X	51.5	.
LATHAM	870	II	136	29	1	2820	R	S	S	51.4	.
ASGROW	A2396	II	131	34	1	3220	R	S	S	51.2	57.2
ASGROW	A2835	II	132	33	1	3388	R	R	S	51.1	.
TERRA	TS253	II	133	29	1	2987	S	S	S	51.0	.
------	CORSOY 79	II	130	37	1	3632	R	R	S	50.8	52.6
YIELD KING	K2323	II	129	34	1	3266	S	S	S	50.7	.
GOLDEN HARVEST	X263	II	133	30	1	3110	S	S	S	50.6	.
ICI	D297	II	136	35	1	3388	S	S	S	50.6	.

ELK POINT - MATURITY GROUP-II (CONTINUED).

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
ICI	D260	II	132	29	1	3110	S	S	S	50.4	.
DIAMOND	D210	II	133	32	1	3197	S	S	S	49.3	.
------	BURLISON	II	136	32	1	2594	R	X	R	49.2	46.0
PIONEER	9241	II	129	29	1	3068	S	S	S	49.1	.
PIONEER	9231	II	133	31	1	3131	R	R	R	49.0	.
HILLCREST	HC404	II	132	31	1	2719	S	S	S	48.5	.
------	MARCUS	II	132	32	1	3175	S	S	S	48.4	47.4
------	ELGIN 87	II	130	30	1	2838	R	R	R	48.4	46.8
------	WELLS II	II	132	37	1	3110	R	R	S	48.4	54.4
------	STURDY	II	132	33	1	2624	R	S	S	47.5	57.6
------	NEWTON	II	137	37	1	3197	R	S	S	47.4	46.7
SANSGAARD	SATURN	II	134	29	1	2929	S	S	S	47.4	55.3
NORTHRUP KING	S 28-01	II	135	31	1	3388	R	R	S	46.2	.
------	ELGIN	II	132	29	1	2967	S	S	S	45.8	51.5
------	SIBLEY CK*	I	128	33	1	2551	R	S	S	45.5	48.1
------	HACK	II	136	32	1	3027	R	S	R	44.8	49.8
HILLCREST	HC427	II	131	36	1	3439	S	S	S	44.4	.
------	BELL (SCN) CK*	I	132	31	1	2671	S	S	S	43.7	.
TEST AVERAGES			134	33	1	2970				53.4	53.0
LSD (5%) VALUE:			0.8	3.9	###NS					7.6	6.8
MINIMUM BEST VALUE:#										54.8	53.1
COEF. OF VARIATION (CV):##										8.8	6.8

*CK = CHECK, SCN = SOYBEAN CYST NEMATODE CHECK, **1 = EXCELLENT, 5 = POOR.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.
###NS - DIFFERENCES AMONG AVERAGES WITHIN A COLUMN ARE NONSIGNIFICANT.

1992 SOYBEAN VARIETY PERFORMANCE TRIAL RESULTS - ELK POINT, SD.
KEVIN BEERMAN FARM, MATURITY GROUP-III, SEEDED MAY 13, 1992.

-----BRAND-----	--VARIETY--	MATURITY GROUP	DAYS TO MATURITY 1992	HT.	LODGING SCORE	SEEDS PER POUND	---- PHYTOPHTHORA ---- REACTION RACE 1	RACE 3	RACE 4	YIELD 1992	YIELD 91-92
			DAYS	(IN.)	**			$		(BU/AC)	
------	KENWOOD CK*	II	132	34	1	2873	S	S	S	54.1	.
KRUGER	K3003	III	140	39	1	3153	S	S	S	52.3	.
SEXAUER	SX 3290	III	140	36	1	2785	S	S	S	51.2	.
SANDS	SOI 333	III	138	30	1	3047	S	S	S	50.6	.
SANDS	SOI 301	III	135	32	1	2987	S	S	S	49.1	.
------	PELLA 86	III	135	33	1	2441	R	R	R	48.9	47.2
------	CHAMBERLAIN	III	144	37	2	2873	R	S	S	48.6	47.6
------	DUNBAR	III	138	33	1	3338	R	S	R	48.6	50.6
------	RESNIK CK*	III	139	32	1	3153	R	R	R	48.3	50.0
------	EDISON	III	143	32	1	3466	R	X	R	48.2	47.7
CIBA	3311	III	137	32	1	2967	S	S	S	48.1	.
------	HOBBIT 87 S-D	III	143	28	1	3007	R	R	R	46.8	45.3
GOLDEN HARVEST	H-1308	III	138	34	1	2768	S	S	S	46.1	.
------	FLYER CK*	IV	144	34	1	3519	R	S	S	45.5	44.8
------	HM8890	III	144	33	1	3175	X	X	X	45.0	.
DEKALB	CX 291	III	136	35	1	3068	R	S	S	44.5	.
------	ZANE	III	136	35	1	2640	S	S	S	43.9	44.4
------	HC856724	III	139	26	2	3068	X	X	X	43.9	52.4
------	WILLIAMS 82	III	147	39	2	2910	R	R	R	43.7	44.1
DAIRYLAND	DSR-308	III	143	33	1	2948	R	R	S	43.5	.
TEST AVERAGES			139	33	1	3003				47.4	47.4
LSD (5%) VALUE:			0.1	2.8	0.6					5.9	###NS
MINIMUM BEST VALUE:#										47.4	
COEF. OF VARIATION (CV):##										7.5	6.7

*CK = CHECK VARIETY, **1 = EXCELLENT, 5 = POOR.
$R = RESISTANT, M OR H = MIXTURE OF RESISTANT AND SUSCEPTIBLE, S = SUSCEPTIBLE , X = UNKNOWN.
#MINIMUM BEST VALUE = HIGHEST VALUE MINUS LSD (5%) VALUE WITHIN A COLUMN.
##CV - A MEASURE OF EXPERIMENTAL ERROR; IF VALUE EXCEEDS 16% DATA SHOULD NOT BE USED TO MAKE VARIETY COMPARISONS.
###NS - DIFFERENCES AMONG AVERAGES WITHIN A COLUMN ARE NONSIGNIFICANT.

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3,100 copies printed by CES at a cost of 81¢ each. ES283 January 1993.