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Michigan State University Extension Service
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1991 MICHIGAN SOYBEAN PERFORMANCE REPORT

Extension Bulletin E-1206 • December 1991

M. L. Vitosh, C. Sneller and J. F. Boyse

Department of Crop and Soil Sciences

This bulletin provides information on the performance of soybean varieties available in Michigan. Comprehensive variety yield trials were conducted in Southeastern Michigan (Lenawee County), Southwestern Michigan (St. Joseph County), South Central Michigan (Hillsdale and Ingham Counties), Central Michigan (Saginaw County), and East Central Michigan (Sanilac County).

Testing Procedures

Commercial varieties voluntarily entered were obtained from seed companies. Addresses for those companies who provided seed for the trials can be found on the back cover of this bulletin. Public varieties were supplied by the Michigan Foundation Seed Association.

Cooperators, planting and harvest dates, fertilizer practices, previous crops, and soil management groups at the six locations are listed in Table 1.

Maturity groups of all varieties tested are listed in Table 2. Seed of entries was planted in 4-row plots 20 feet long with a 30-inch row spacing, 1 1/2 inches deep at 7.5 seeds per foot of row. Each variety was randomized within the trial and replicated 3 times in a lattice design. Fourteen feet of the center two rows was harvested for yield.

Evaluating Characteristics

YIELD — Yield is expressed in bushels per acre at 13% moisture.

MATURITY DATE — Entries were considered mature when 95% of the pods had attained their final color and would crack under finger pressure. Additional field drying was required before the plants were ready to harvest. Maturity is recorded as + or - days relative to the check variety (Corsoy 79).

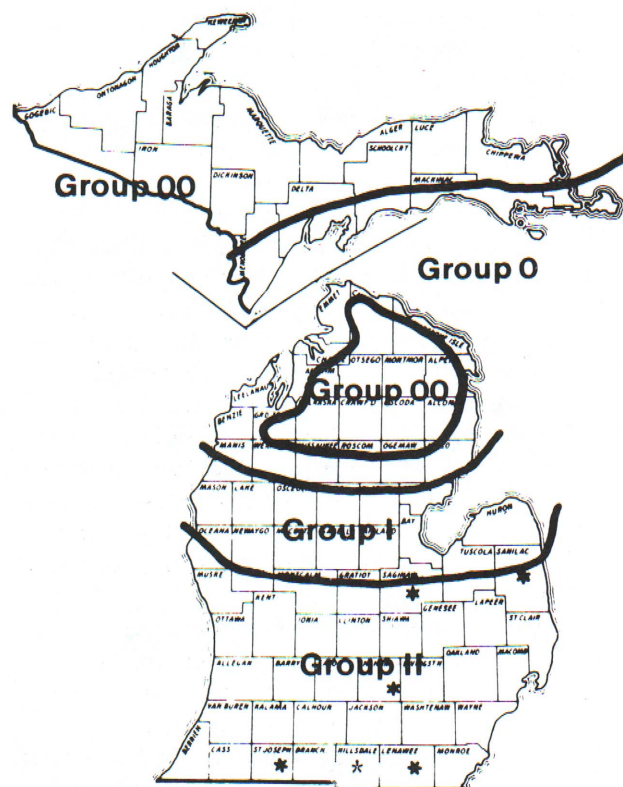
HEIGHT — Plant height, in inches, was measured at maturity from the soil surface to the tip of the main stem.

LODGING — Lodging scores reflect the erectness of the plants before harvest. Ratings are based on the following scale:

1. Almost all plants erect
2. All plants leaning slightly, or fewer than 25% of the 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

Interpreting the Results

Tables 2-4 show results of 1991 soybean variety trials. Values given are the averages of all replications harvested at each location. The LSD (least significant difference) value is useful when comparing two varieties in the same table. Two varieties with the same genetic potential for yield may have different yields due to variation in soil fertility, compaction, and other environmental factors. If the difference is less than the LSD value, the difference between the varieties may be due to chance or minor environmental differences. However, if the difference between two varieties is greater than the LSD, there is a 95%, or better, probability that the performance is actually different. The CV value is an indicator of the degree of precision for a particular test. The lower the CV value, the more discriminating the test.



Soybean Maturity Zones for Full-Season Varieties in Michigan, and Locations () of Trials.*

* Dept. of Agronomy, University of Arkansas

Selecting a Variety

The primary consideration in selecting a variety is yield. When evaluating a variety, consider yield performance over several years, if available. Give preference to data obtained in the nearest variety trial. Use all trials in determining a variety's performance under various environmental conditions.

Considerations other than yield are also important in selecting a variety, and in some cases result in choosing a variety with only moderate performance. It is especially important to select a variety with proper maturity. From past weather data, farmers can determine the percent probability of the first fall frost. A general rule of thumb is to choose a variety that will mature (see maturity date definition) before the average date for 25% chance of the first killing frost in the fall. Farmers growing soybeans for the first time may wish to contact neighbors to determine what varieties mature before frost in their area. When large acreages of soybeans are planted, varieties of different maturities provide staggered maturity dates for a longer harvest season.

The degree of lodging varies among varieties. Lodged plants in variety trials are manually picked up and threshed, thus yield losses from lodging are not reflected in the yields reported. Lodging ratings should be used to evaluate potential harvest losses. Farmers who have experienced lodging in the past and have had harvest problems may select a more lodging-resistant variety. Alternately, a variety susceptible to lodging may be planted at a slightly lower population to increase standability. Evaluate lodging data over all locations to determine a variety's lodging characteristics.

Note seed size when selecting planting rates. Planting rates should be based on number of seeds per foot of row and not on pounds per acre.

Many diseases occur in soybean fields in Michigan. The diseases which contribute most significantly to yield reduction are seed and seedling diseases and those causing root and stem rots. Root rots of soybeans are generally recognized when plants turn yellow prematurely, wilt, or die. Less noticeable is the yield reduction that occurs when root rot destroys part of the root system, but causes no visible symptoms to above-ground parts. The fungi that cause root rots often survive in the soil for several years, even in the absence of a host plant. Once root rot fungi are established in a field, control is difficult, even with crop rotation.

The most important and widespread root disease is *Phytophthora* root rot. New varieties with resistance to several races of the fungus have been developed, but no variety is resistant to all races. Resistance of varieties to *Phytophthora* root rot, where known, are given in Table 2. Growers who have experienced losses due to

this disease should increase their chance of success by using one of the multi-race resistant varieties.

It often benefits growers to select a few good varieties for planting each year. Yield determination and careful field evaluation during the growing season will add to the grower's knowledge of varietal performance and allow better selection.

More information about variety selection and cultural practices can be found in Extension Bulletin E-1549, "Soybean Production in Michigan," and E-2080, "Producing Soybeans in Narrow Rows."

Using The Data

Table 2 presents multiple-environment averages from all tests in the Southern and Central Michigan regions since 1975. The column labeled (n) refers to the number of tests in which each variety was included. The column labeled Dev. (deviation) refers to the difference (in bushels per acre) between the mean yield of the variety and the mean yield of all varieties in those tests. The maturity check used for all varieties was Corsoy 79 (C79). A positive relative maturity value means that the variety matured later than the check and a negative value means that the variety matured earlier than the check. The value is the actual number of days in either direction.

Data presented in Tables 3 through 4 are from both regional and site-specific performance trials. Average yields for 1991, 90-91 and 89-91 are given. Maturity, height (in inches), and lodging scores are the 1991 regional averages. Maturity is expressed as + or - days when compared with the check variety (Corsoy 79). For 1991 yield data, starred (*) entries designate yields not significantly different from the highest yield for that location. Multiple-environment and multiple-year averages comprised of a greater number of tests (greater n) should be considered more reliable.

The presentation of data for the entries tested does not suggest approval nor endorsement of varieties by the authors or by those responsible for conducting the performance trials.

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Table 1. 1991 Michigan State University Soybean Variety Test, Site Information.

County	Lenawee	Hillsdale	St. Joseph	Ingham	Saginaw	Sanilac
CES Dir.	A. Knisel	W. Minner	R. King	M. Preston	J. Thews	M. Nagelkirk
Ag. Agent	G. Wuethrich	D. Pratt	L. Kelley	L. Rhodes	S. Poindexter	
Cooperator City	D. Woods Britton	R. Lennard Reading	R. Gentz Colon	MSU campus E. Lansing	J. Hemker St. Charles	D. Gerstenberger Sandusky
Soil Type	Brookston Clay Loam	Hoytville Silty Clay Loam	Hillsdale Sandy Loam	Capac Loam	Sloan Ceresco Clay Loam	Parkhill Loam
Mgt. Group	2.5c	1c-1.5b	3a	2.5b	L-2c	2.5c
Previous Crop	Soybeans	Corn	Corn	Corn	Corn	Corn
Fertilizer	200# 0-14-40	None	180# 10-14-24	150# 6-24-24	None	None
Planting Date	5/13/91	5/10/91	5/28/91	5/15/91	5/18/91	6/7/91
Harvest Date	10/2/91	10/1/91	10/16/91	10/21/91	10/9/91	10/17/91

Table 2. Performance Summary of Varieties Entered in the 1991 Michigan Trials.

(Data are averaged over all years that the variety was tested. Phytophthora resistance designations denote the following: Type 1a resistant to Races 1, 2 & 10; Type 1b resistant to Races 1 & 3-9; Type 1c resistant to 1-3 & 6-10; Type 1k resistant to Races 1-10; Type 3 resistant to Races 1-5, 8 & 9; Type 6 resistant to Races 1-4 & 10.)

Brand/Entry	MG	Type	Yield (bu/A) with deviation from mean				Relative Maturity [†]		Lodging Score			
			Southern		Central		Southern	Central	So.	Ctr.		
			Yield (n)	Dev.	Yield (n)	Dev.						
Public												
ARCHER	I	1a	52.7	8	-4.5 *	55.4	6	-1.7 NS	-3	-2	1.9	2.2
BELL	I	None	53.7	4	-2.5 NS	55.6	3	-3.4 NS	-2	-1	2.3	2.3
BSR 101	I	1a	49.2	31	0.0 NS	48.2	34	0.8 NS	-2	0	1.7	1.9
BURLISON	II	1b,3	54.2	19	1.4 NS	58.4	15	1.9 NS	8	7	2.0	2.4
CENTURY 84	II	None	48.0	29	-0.9 NS	49.0	28	0.0 NS	5	5	1.7	1.8
CHAPMAN	II	None	61.4	4	6.4 *	60.2	3	1.3 NS	6	3	1.9	1.7
CONRAD	II	None	53.2	24	2.1 *	55.3	21	3.3 **	3	2	2.1	2.4
CORSOY 79	II	1c	45.1	44	-1.2 NSL	45.8	51	0.0 NSL	0	0	2.5	2.4
DIMON	II	None	58.3	8	1.9 NS	58.3	6	1.8 NS	-1	-2	2.4	2.0
E86237 (MSU Expt.)			50.2	4	4.7 NS	55.2	3	-3.7 NSL	-2	-6	2.4	2.0
E86248 (MSU Expt.)			52.8	4	-3.4 NS	59.3	3	0.4 NS	-1	-2	1.7	2.8
E86315 (MSU Expt.)			56.3	4	0.1 NS	57.5	3	-1.4 NS	2	-1	1.7	2.0
E88080 (MSU Expt.)			58.6	4	2.3 NS	59.4	3	0.4 NS	5	2	1.8	2.0
E90010 (MSU Expt.)			44.6	4	-11.7 **	47.5	3	-11.4 *	-6	-5	2.1	2.2
E90029 (MSU Expt.)			53.5	4	-2.8 NS	58.5	3	-0.4 NS	0	-2	2.2	2.5
E90070 (MSU Expt.)			59.6	5	4.6 NS	61.5	3	2.6 NS	8	7	2.6	2.6
ELGIN 87	II	1k	53.7	28	2.7 **	51.6	28	2.4 *	2	1	2.4	2.6
HACK	II	2a	49.4	30	0.3 NSL	50.0	29	1.3 NS	3	3	1.7	1.7
HARDIN	I	1a	45.8	37	-1.3 NS	47.7	43	1.0 NSL	-3	-2	2.4	2.3
HODGSON 78	I	1a	42.5	46	-3.3 **L	43.7	54	-1.8 * L	-7	-7	1.9	1.9
JACK	II	1b	58.0	4	3.1 *	58.6	3	-0.3 NS	12	10	2.7	3.0
KASOTA	I	1c	46.4	4	-9.9 **	53.5	3	-5.5 NS	-6	-7	2.2	2.1
KATO	I	1a	47.4	15	-6.1 **	48.8	14	-5.1 **L	-7	-6	1.8	2.2
KENWOOD	II	None	56.0	19	3.2 *	60.0	17	3.8 *	2	1	2.4	3.1
KUNITZ	III	1k	55.4	4	-0.9 NS	40.2	3	-18.7 NS	14	11	3.3	2.9
PELLA 86	III	1a	52.8	17	0.9 NS	56.1	9	1.0 NS	8	8	1.8	2.0
PRESTON	II	None	51.1	25	1.1 NSL	48.9	23	0.4 NS	6	4	2.1	2.3
RESNIK	III	1k	55.4	16	3.6 *	54.2	6	-1.5 NS	11	10	2.0	2.1
SHERMAN	III	None	57.1	16	3.9 NS	56.1	6	-0.9 NS	13	12	2.8	3.3
SIBLEY	I	1a	48.1	25	-1.4 NS	46.6	31	-1.6 NSL	-6	-6	2.1	2.0
STURDY	II	1a	50.2	24	0.1 NS	51.7	25	1.8 *	0	1	1.8	2.1
VINTON 81	I	1k	41.8	12	-7.9 **L	44.5	12	-6.6 **	0	1	2.0	1.9
ZANE	III	None	51.5	27	2.5 *	52.1	22	1.3 NS	7	5	2.1	2.3

(Cont'd)

*,** Statistically significant deviation (P<0.05 and 0.01), respectively. NS Not significant.

H Variety exhibits higher than average response in a highly productive environment.

L Variety exhibits lower than average response in a highly productive environment.

† Maturities are given in days relative to Corsoy 79. Average maturity for Corsoy 79 is September 23 in the Southern region and October 2 in the Central region.

Table 2. (Continued) Performance Summary.

Brand/Entry	MG	Type	Yield (bu/A) with deviation from mean						Relative Maturity [†]		Lodging Score	
			Southern			Central			Southern	Central	So.	Ctr.
			Yield (n)	Dev.		Yield (n)	Dev.					
Asgrow Seed Company												
A2234	II	1k	52.0	20	0.2 NS	54.0	16	2.2 *	-1	0	1.3	1.3
A2396	II	1k	61.9	8	4.8 **	.	.	.	2	.	1.6	.
A2543	II	1k	56.6	12	2.9 *	.	.	.	5	.	1.1	.
A2872	II	1k	61.7	8	4.6 *	.	.	.	7	.	1.6	.
Callahan Seeds												
1170	I	None	.	.	.	56.1	11	0.5 NS	.	-5	.	1.3
1288	II	None	59.5	9	1.3 NSH	58.0	7	0.4 NS	3	3	1.5	1.8
1290	II	None	57.7	12	4.0 *	.	.	.	7	.	1.5	.
1330	II	None	63.4	8	6.3 **	.	.	.	9	.	1.7	.
2200X	II	1c	.	.	.	59.7	3	0.8 NS	.	-1	.	2.2
2215X	II	1a	.	.	.	62.8	3	3.8 **	.	-2	.	1.5
2232X	II	1a	.	.	.	64.8	3	5.8 *	.	-2	.	1.9
2244X	II	1k	57.8	4	1.6 NS	60.5	3	1.5 NS	2	1	2.1	2.3
2255X	II	None	61.6	4	5.3 NS	67.2	3	8.2 NS	7	6	1.7	2.1
2292X	II	1a	56.6	4	0.5 NS	.	.	.	7	.	2.1	.
2311X	III	1k,a	56.9	4	0.8 NS	.	.	.	10	.	2.3	.
6180	I	None	.	.	.	50.3	29	1.8 *	.	-5	.	1.4
8252	II	None	56.0	20	4.2 **	57.9	19	4.6 **	4	3	1.9	2.1
9222X	II	None	.	.	.	53.0	15	1.0 NS	.	1	.	1.9
9270X	II	None	55.5	16	3.6 **H	56.1	15	4.2 **	6	5	1.4	1.5
Countrymark Co-op Inc.												
EXP 17292	II	None	53.8	4	-2.3 NS	60.4	3	1.5 NS	6	3	1.3	1.5
FFR 193	I	None	50.4	4	-5.9 *	59.3	3	0.4 NS	-4	-4	1.4	1.3
FFR 253	II	1k	52.3	12	-1.4 NS	54.3	11	-1.2 NS	6	3	1.9	2.1
FFR 299	II	1c	57.6	4	1.4 NS	56.4	3	-2.6 NS	11	9	2.2	2.8
Dairyland Seed Company												
DSR-170	I	None	.	.	.	55.7	11	0.1 NS	.	-6	.	1.9
DSR-173	I	None	.	.	.	61.0	3	2.0 NS	.	-7	.	1.1
DSR-217	II	None	.	.	.	65.0	3	6.0 NS	.	2	.	2.2
DSR-252	II	None	.	.	.	54.3	19	1.1 NS	.	0	.	1.7
DSR-262	II	None	56.3	20	4.5 **	57.2	9	2.1 NS	7	6	2.4	2.5
DSR-288	II	None	62.2	4	6.0 **	60.0	3	1.1 NS	6	1	1.3	1.2
DSR-290	II	None	55.8	16	4.0 **	.	.	.	7	.	1.9	.
DSR-305	III	None	61.7	4	5.5 NS	.	.	.	12	.	2.4	.
DSR-317	III	None	49.3	19	1.8 NS	.	.	.	12	.	2.7	.
DeKalb Plant Genetics												
CX259	II	None	58.3	8	1.2 NSH	58.1	6	1.1 NS	3	3	2.0	2.4
CX267	II	1c	58.8	4	2.6 NS	60.1	3	1.2 NS	6	4	2.3	2.1
CX291	II	1k	55.7	4	-0.5 NS	.	.	.	10	.	2.5	.
CX298	II	1k	53.4	16	1.6 NS	53.3	6	-2.4 NS	9	9	1.9	2.1
CX329	III	1k	57.6	4	1.5 NS	.	.	.	10	.	1.9	.
CX366	III	1c	52.4	4	-3.7 **	.	.	.	13	.	2.1	.
Diamond (ICI Seeds Inc.)												
D210	II	None	59.0	8	1.8 NS	.	.	.	3	.	1.9	.
D200	II	None	.	.	.	59.6	3	0.7 NS	.	-3	.	2.3
SC232	II	None	.	.	.	63.1	3	4.2 NS	.	2	.	2.1
SC291	II	None	61.5	8	4.4 *	.	.	.	6	.	2.4	.
Diehl Fields												
DF-191	I	None	.	.	.	54.5	3	-4.4 NS	.	-4	.	1.8
DF-201	II	1c	52.3	12	2.6 *	.	.	.	6	.	2.1	.
DF-231	II	None	58.1	5	1.6 NS	59.7	6	2.6 NS	3	4	1.7	1.8
Funk's G Brand												
G3185	I	None	.	.	.	55.6	11	0.0 NSL	.	-3	.	1.7
G3197	I	None	.	.	.	48.0	23	-0.2 NS	.	-4	.	1.3
G3232	II	None	49.6	15	1.7 *	51.2	6	-1.0 NS	6	6	2.2	2.4
G3258	II	None	57.2	8	0.1 NS	60.7	4	2.2 NS	2	1	1.9	2.2
G3311	III	None	61.8	4	5.6 NS	.	.	.	13	.	2.1	.
Golden Harvest												
H-1170	I	None	49.9	20	-1.8 NS	52.0	21	-0.3 NS	-5	-5	1.6	1.5
H-1208	II	None	55.3	4	-1.0 NS	60.7	3	1.8 NSL	2	0	2.2	2.2
H-1260	II	None	54.5	12	0.8 NS	57.6	11	2.0 *	4	2	1.7	1.9
H-1271	II	None	61.4	4	5.2 NS	67.4	3	8.4 *	8	7	2.1	2.2
H-1278	II	None	54.0	16	2.2 *	53.7	15	1.8 NS	8	7	1.6	1.7
H-1303	III	None	58.5	8	1.3 NS	56.5	6	-0.5 NS	10	9	2.6	2.9

(Cont'd)

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			Southern		Central		Southern	Central	So.	Ctr.				
			Yield (n)	Dev.	Yield (n)	Dev.								
Great Lakes Hybrids														
G62505	II	None	62.4	4	6.3	NS	.	.	6	.	1.9	.		
GL2291	II	None	.	.	.	.	62.1	6	5.1	**	.	3.0		
GL2304	II	None	.	.	.	.	62.8	3	3.9	NS	.	2.1		
GL2598	II	None	61.5	4	5.2	NS	65.5	3	6.6	NS	8	6	1.9	2.2
Gries Seed Farm														
GSF275	II	None	62.0	8	4.8	**	61.6	6	4.6	NS	7	8	2.2	2.6
GSF330	III	None	58.8	8	1.6	NS	54.8	6	-2.3	NS	9	9	2.0	2.2
Jacques Seed Company														
J-181	I	None	.	.	.	.	51.8	16	1.3	NS	.	-5	.	1.5
Kaiser-Estech														
KE 156	I	None	.	.	.	.	52.9	21	2.0	NS	.	-4	.	1.5
KE 220	II	None	57.6	4	1.4	NS	60.4	3	3.7	NS	5	5	1.9	2.7
KE 310	III	None	54.7	19	3.3	*	.	.	.	.	11	.	2.3	.
King Agro, Inc.														
GG1800	I	None	.	.	.	.	59.4	3	0.5	NS	.	-7	.	1.9
GG2700	II	None	55.8	10	1.0	NS	57.7	11	2.1	NS	6	3	1.4	1.5
KG100	II	None	57.6	7	3.0	NS	52.5	15	0.6	NS	9	6	2.3	1.9
KG60	0	None	.	.	.	.	47.8	3	-11.2	**	.	-11	.	2.1
Northrup King														
s19-90	I	1c	55.8	6	-0.3	NS	59.7	11	4.2	**	-3	-2	1.4	1.2
s20-20	II	1c	56.3	4	0.1	NS	63.8	3	4.8	NS	-4	-4	1.9	1.9
s29-39	II	1c	57.4	8	0.3	NS	.	.	.	.	10	.	2.2	.
X9127	II	1c	58.5	4	2.4	NS	.	.	.	.	10	.	2.3	.
Northern Star														
NS-2291	II	None	54.9	4	-1.4	NS	63.3	3	4.3	*	0	-1	1.5	1.5
NS-2891	II	None	61.2	4	5.1	NS	.	.	.	.	7	.	1.7	.
Pioneer Hi-Bred International														
9171	I	None	52.2	5	-4.2	NS	57.0	6	-0.1	NS	-7	-8	1.2	1.2
9231	II	None	51.2	4	-5.1	NS	59.1	3	0.1	NS	-2	-2	1.1	1.1
9273	II	None	61.2	8	4.1	**	60.8	6	3.8	*	4	2	1.5	1.9
9301	III	None	53.6	16	1.8	NS	56.2	6	0.5	NSH	7	7	2.4	2.8
9341	IV	None	59.7	8	2.5	NS	56.2	4	-2.4	NS	10	11	1.9	2.2
Pro-Seed (Prosoy)														
PS215	II	None	.	.	.	.	55.4	15	3.4	**	.	3	.	1.8
PS228	II	None	56.6	4	0.4	NS	.	.	.	.	5	.	2.5	.
PS245	II	None	57.7	4	1.5	NS	64.6	3	5.7	NS	6	6	2.1	2.2
PS321	III	1k	60.4	8	3.3	NS	.	.	.	.	10	.	2.3	.
Renk Seed Company														
RS-1992	I	1c	.	.	.	.	58.0	3	-0.9	NS	.	-5	.	1.9
RS-2191	II	None	.	.	.	.	59.4	3	0.5	NS	.	1	.	2.7
RS-2292	II	None	54.9	4	-1.3	NS	.	.	.	.	0	.	2.3	.
RS-2792	II	None	56.4	4	0.2	NS	.	.	.	.	7	.	2.1	.
Rupp Seeds														
RS2308	II	None	.	.	.	.	55.8	16	2.9	**	2	.	1.8	.
RS2323	II	1k	.	.	.	.	52.0	15	0.0	NS	.	1	.	1.7
RS2444	II	1k	.	.	.	.	57.4	6	0.3	NS	.	3	.	1.7
RS2503	II	None	58.4	8	1.2	NS	56.3	3	-2.7	NS	8	7	2.3	2.5
RS2525	III	None	59.8	4	3.6	NS	.	.	.	.	14	.	2.3	.
RS2544	III	None	47.9	23	0.5	NS	.	.	.	.	12	.	2.4	.
RS2585	III	None	63.8	4	7.7	*	.	.	.	.	12	.	2.4	.
Stine Seed Company														
3230	III	1a	64.8	8	7.6	*	.	.	.	.	13	.	2.4	.
Saginaw Valley Seed														
SVS181	I	None	.	.	.	.	64.0	3	5.1	* H	.	-7	.	1.9
SVS183	I	1a	.	.	.	.	56.3	6	5.7	*	.	-7	.	2.3
Terra International														
EX 299	II	None	60.9	4	2.6	NS	62.5	4	1.6	NS	9	10	2.2	2.3
FLAG	I	None	.	.	.	.	56.0	11	0.4	NSL	.	-7	.	1.5
HURDLE	II	1a	.	.	.	.	49.5	23	-0.9	NS	.	2	.	1.7
MEDALIST	II	None	55.0	16	3.2	**	54.7	15	2.7	*	4	4	1.9	2.0
RUNNER	III	I	None	.	.	.	51.6	13	1.3	NS	.	-3	.	2.0
SPRINT	II	None	52.1	23	1.8	NS	53.9	20	1.5	NS	8	5	2.0	2.2
WINNER	II	None	55.0	12	1.3	NS	57.8	11	2.2	NS	3	2	1.7	2.0

*,** Statistically significant deviation (P<0.05 and 0.01), respectively. NS Not significant.

H Variety exhibits higher than average response in a highly productive environment.

L Variety exhibits lower than average response in a highly productive environment.

† Maturities are given in days relative to Corsoy 79. Average maturity for Corsoy 79 is September 23 in the Southern region and October 2 in the Central region.

Table 3. Summary of Yields from the Southern Testing Region.

Brand	Entry	All Southern Locations			1991	1991	1991	1991	Matur- ity † (days)	Height (in)	Lodg- ing Score
		1991 Avg.	90-91 Avg.	89-91 Avg.	Ingham County	Lenawee County	Hillsdale County	St. Joseph County			
Public	ARCHER	50.5	52.7	.	61.5	58.5	32.1	49.8	-3	35	2.3
Public	BELL	53.7	.	.	65.5	50.4	50.5 *	48.5	-2	32	2.2
Public	BSR 101	51.6	53.6	50.7	61.6	57.7	35.8	51.4	-2	33	2.0
Public	BURLISON	54.7	55.6	50.6	66.8	61.1	43.3	47.6	7	33	1.7
Public	CENTURY 84	51.5	53.4	51.1	61.8	61.3	34.8	48.3	7	36	1.9
Public	CHAPMAN	61.4 *	.	.	67.4	64.9	59.1 *	54.1 *	6	36	1.8
Public	CONRAD	56.7	56.6	54.3	74.2 *	58.3	44.8 *	49.7	2	34	1.8
Public	CORSOY 79	49.7	53.3	49.9	55.0	54.7	41.2	48.0	0	40	2.7
Public	DIMON	57.6	58.3	.	74.2 *	62.8	41.1	52.4 *	2	30	1.7
Public	E86237	50.2	.	.	58.6	55.8	36.6	49.7	-5	34	2.0
Public	E86248	51.1	.	.	67.3	52.5	39.6	45.0	-1	35	2.4
Public	E86315	53.3	.	.	69.0	53.3	43.1	47.6	0	33	1.6
Public	E88080	58.6 *	.	.	71.1	57.7	58.8 *	46.7	4	37	1.8
Public	E90010	44.6	.	.	54.8	47.7	33.3	42.5	-6	34	2.1
Public	E90029	53.5	.	.	61.2	62.2	41.6	48.8	0	39	2.2
Public	E90070	62.2 *	.	.	73.0 *	70.1 *	56.9 *	48.9	9	35	2.5
Public	ELGIN 87	58.4 *	57.8	55.2	68.5	62.4	55.2 *	47.3	3	33	2.6
Public	HACK	51.4	51.9	50.9	63.2	52.0	41.1	49.3	4	34	2.1
Public	HARDIN	52.9	52.5	50.1	56.6	54.9	51.4 *	48.9	-1	42	2.8
Public	HODGSON 78	47.4	49.8	46.8	53.2	49.7	42.9	43.8	-9	35	2.7
Public	JACK	58.0 *	.	.	68.3	61.1	49.9 *	52.7 *	11	45	3.0
Public	KASOTA	46.4	.	.	57.9	46.9	38.4	42.4	-6	31	2.2
Public	KATO	45.6	47.5	.	55.1	44.3	34.3	48.6	-8	34	1.8
Public	KENWOOD	59.5 *	57.6	55.9	67.4	64.0	51.7 *	55.0 *	2	36	2.5
Public	KUNITZ	55.4	.	.	55.7	59.4	64.5 *	42.0	14	44	3.2
Public	PELLA 86	57.5	57.4	53.3	63.0	62.6	53.3 *	51.0	8	36	1.9
Public	PRESTON	54.8	54.7	51.6	63.0	59.0	50.1 *	46.8	6	38	2.5
Public	RESNIK	63.5 *	62.5	58.6	68.3	70.8 *	65.2 *	49.7	11	37	2.2
Public	SHERMAN	61.7 *	58.9	54.4	71.6 *	66.7 *	59.8 *	48.8	13	37	3.2
Public	STURDY	52.8	55.8	53.4	62.9	56.0	41.4	50.8	-1	33	2.3
Public	VINTON 81	46.2	.	.	52.8	42.9	48.1 *	40.9	1	36	2.4
Public	ZANE	59.9 *	60.9	56.7	68.6	60.6	59.0 *	51.3	10	39	2.2
Asgrow	A2234	52.7	55.9	52.8	67.0	54.8	44.1	44.9	-2	29	1.1
Asgrow	A2396	62.0 *	61.9	.	74.6 *	61.6	55.9 *	55.9 *	4	35	1.8
Asgrow	A2543	56.4	58.8	56.6	72.8 *	58.3	46.5 *	48.2	3	28	1.2
Asgrow	A2872	61.9 *	61.7	.	68.0	67.9 *	63.4 *	48.3	8	36	1.8
Callahan	8252	62.4 *	60.3	56.6	77.5 *	63.7	55.4 *	52.9 *	5	34	1.8
Callahan	1288X	56.7	58.2	.	70.1	65.0 *	41.5	50.3	5	29	1.3
Callahan	1290X	61.6 *	61	57.7	76.2 *	70.0 *	47.4 *	53.0 *	6	35	1.7
Callahan	1330X	62.9 *	63.4	.	70.7	73.5 *	54.3 *	53.3 *	11	35	1.5
Callahan	2244X	57.8 *	.	.	71.7 *	57.3	47.4 *	54.9 *	2	35	2.1
Callahan	2255X	61.5 *	.	.	78.6 *	57.4	53.4 *	56.8 *	7	34	1.7
Callahan	2292X	56.6	.	.	61.5	67.6 *	43.1	54.1 *	7	37	2.1
Callahan	2311X	56.9	.	.	60.9	67.8 *	52.5 *	46.5	10	40	2.3
Callahan	9270X	59.7 *	60.3	57.6	72.1 *	67.8 *	51.7 *	47.4	7	33	1.7
Countrymark	EXP 17292	53.8	.	.	64.5	59.0	40.8	51.1	4	36	1.4
Countrymark	FFR 193	50.3	.	.	63.2	53.9	37.6	46.7	-4	34	1.4
Countrymark	FFR 253	55.5	56.8	52.3	61.9	59.7	50.0 *	50.6	8	35	2.0
Countrymark	FFR 299	57.6	.	.	57.5	63.1	60.2 *	49.6	11	38	2.2
Dairyland	DSR-262	56.4	58.2	55.2	63.9	63.9	49.5 *	48.3	7	38	2.4
Dairyland	DSR-288	62.2 *	.	.	73.3 *	66.8 *	54.7 *	54.1 *	5	32	1.3
Dairyland	DSR-290	61.4 *	60.3	57.8	69.4	69.2 *	60.6 *	46.4	9	35	2.4
Dairyland	DSR-305	61.7 *	.	.	76.4 *	67.5 *	48.0 *	54.7 *	12	37	2.4
Dairyland	DSR-317	55.5	.	.	66.9	56.9	53.9 *	44.4	16	42	2.4
Dekalb	CX259	57.8 *	58.3	.	71.8 *	62.5	48.2 *	48.8	5	36	1.8
Dekalb	CX267	58.8 *	.	.	66.1	64.2	49.1 *	55.9 *	6	38	2.3
Dekalb	CX291	55.7	.	.	56.6	66.7 *	51.5 *	47.9	10	41	2.5
Dekalb	CX298	58.0 *	59.3	55.6	73.0 *	65.6 *	46.8 *	46.6	10	34	2.2
Dekalb	CX329	57.6	.	.	61.2	67.1 *	55.6 *	46.4	10	36	1.9
Dekalb	CX366	52.4	.	.	63.4	56.4	44.9 *	44.9	13	40	2.1
Diamond	D210	61.8 *	59	.	69.4	65.4 *	62.6 *	49.8	5	36	1.9
Diamond	SC291	61.6 *	61.5	.	71.1	65.0 *	58.6 *	51.6 *	8	38	2.5

(Cont'd)

Average		56.9	57.8	54.2	67.6	61.7	48.5	49.9	5	36	2.1
LSD		6.0	.	.	7.1	8.5	20.5	5.6			

* Denotes a yield that is not significantly less than the highest yield in the column.

† Maturities are given in days relative to Corsoy 79. Corsoy 79 reached maturity on 9/15/91.

Table 3. (Cont'd) Summary of Yields from the Southern Testing Region.

Brand	Entry	All Southern Locations			1991 Ingham County	1991 Lenawee County	1991 Hillsdale County	1991 St. Joseph County	Matur- ity † (days)	Height (in)	Lodg- ing Score
		1991 Avg.	90-91 Avg.	89-91 Avg.							
Diehl Fields	DF-201	62.0 *	.	.	69.0	66.1 *	59.4 *	53.4 *	7	38	2.2
Diehl Fields	DF-231	57.1	58.1	.	73.9 *	61.3	40.6	52.6 *	3	37	1.8
Funk's G.	G3232	60.7 *	.	.	68.4	66.8 *	54.1 *	53.3 *	7	39	2.5
Funk's G.	G3258	58.0 *	57.2	.	69.3	66.1 *	47.4 *	49.4	4	35	1.9
Funk's G.	G3311	61.8 *	.	.	77.7 *	61.3	58.3 *	49.7	13	36	2.1
G. Harvest	H-1170	52.1	54.6	50.7	66.2	52.4	40.5	49.3	-5	32	1.8
G. Harvest	H-1208	55.3	.	.	64.9	56.8	47.9 *	51.5	2	38	2.2
G. Harvest	H-1260	57.2	57.4	54.5	71.6 *	58.5	48.8 *	50.0	3	34	1.5
G. Harvest	H-1271	61.4 *	.	.	77.8 *	57.8	54.6 *	55.4 *	8	37	2.1
G. Harvest	H-1278	61.0 *	60.2	55.7	74.2 *	63.9	54.1 *	51.9 *	9	33	1.7
G. Harvest	H-1303	60.0 *	58.5	.	69.3	68.5 *	54.3 *	48.0	12	38	2.1
Great Lakes	G62505	62.4 *	.	.	77.2 *	73.1 *	44.0	55.2 *	6	35	1.9
Great Lakes	GL2598	61.4 *	.	.	73.2 *	60.6	54.8 *	57.2 *	8	40	1.9
Gries Seed	GSF275	62.5 *	62	.	77.6 *	60.3	56.1 *	56.0 *	7	35	1.8
Gries Seed	GSF330	55.8	58.8	.	68.4	61.3	49.8 *	43.7	14	37	2.3
Kaiser-Estech	KE 220	57.6	.	.	66.3	63.8	51.5 *	48.9	5	34	1.9
Kaiser-Estech	KE 310	57.9 *	59.7	55.1	65.0	65.6 *	48.9 *	52.3 *	11	37	2.3
King Grain	GG 2700	60.1 *	.	.	72.0 *	62.4	54.7 *	51.2	7	35	1.3
King Grain	KG 100	58.3 *	59.5	59.7	67.0	68.5 *	53.0 *	44.8	11	38	2.7
Northrup King	s19-90	53.3	.	.	71.9 *	56.2	37.4	47.7	-4	33	1.6
Northrup King	s20-20	56.3	.	.	67.9	57.2	45.8 *	54.4 *	-4	34	1.9
Northrup King	s29-39	54.2	57.4	.	63.4	68.8 *	41.3	43.2	12	35	2.2
Northrup King	X9127	58.5 *	.	.	69.6	64.3	57.6 *	42.5	9	34	2.2
Northern Star	NS-2291	54.8	.	.	72.8 *	52.7	41.9	52.0 *	0	33	1.5
Northern Star	NS-2891	61.2 *	.	.	72.3 *	69.8 *	47.7 *	54.9 *	7	35	1.7
Pioneer	9171	50.5	52.2	.	70.7	45.5	31.6	54.1 *	-7	28	1.3
Pioneer	9231	51.1	.	.	67.3	56.4	30.8	50.1	-2	29	1.1
Pioneer	9273	60.5 *	61.2	.	71.9 *	66.2 *	49.6 *	54.2 *	7	32	1.5
Pioneer	9301	57.6	58.7	56	70.8	62.9	40.7	56.1 *	8	41	2.7
Pioneer	9341	61.7 *	59.7	.	74.4 *	66.3 *	56.4 *	49.6	13	38	2.0
Pro-Seed	PS228	56.6	.	.	67.6	66.0 *	41.7	50.9	5	37	2.5
Pro-Seed	PS245	57.7	.	.	67.7	66.0 *	43.5	53.7 *	6	38	2.1
Pro-Seed	PS321	58.7 *	60.4	.	63.8	72.6 *	48.1 *	50.3	13	39	2.1
Renk Seeds	RS-2292	54.8	.	.	68.8	60.6	38.4	51.6 *	0	34	2.3
Renk Seeds	RS-2792	56.3	.	.	66.5	61.0	44.7 *	53.2 *	7	38	2.1
Rupp Seeds	RS2503	57.1	58.4	.	65.8	68.7 *	45.0 *	48.9	8	34	2.3
Rupp Seeds	RS2525	59.7 *	.	.	67.6	67.6 *	56.1 *	47.7	14	40	2.2
Rupp Seeds	RS2544	52.8	.	.	61.5	64.4	44.9 *	40.3	12	42	2.1
Rupp Seeds	RS2585	63.8 *	.	.	73.8 *	71.6 *	57.0 *	52.8 *	12	37	2.4
Stine Seeds	3230	63.8 *	64.8	.	72.4 *	69.7 *	62.7 *	50.4	13	37	2.4
Terra Int.	EX 299	58.9 *	.	.	69.5	71.6 *	40.0	54.6 *	9	34	2.2
Terra Int.	MEDALIST	63.2 *	60.7	56.3	74.7 *	70.1 *	55.4 *	52.8 *	6	38	2.5
Terra Int.	SPRINT	52.4	55.1	53.8	65.8	58.1	36.1	49.5	10	35	2.1
Terra Int.	WINNER	56.6	57.7	55	70.4	59.9	44.9 *	51.3	4	35	1.8
Average		56.9	57.8	54.2	67.6	61.7	48.5	49.9	5	36	2.1
Maximum		63.8	64.8	59.7	78.6	73.5	65.2	57.2	16	45	3.2
Minimum		44.6	47.5	46.8	52.8	42.9	30.8	40.3	-9	28	1.1
CV		13.4%	.	.	6.7%	8.7%	26.9%	7.1%			
LSD		6.0	.	.	7.1	8.5	20.5	5.6			

* Denotes a yield that is not significantly less than the highest yield in the column.

† Maturities are given in days relative to Corsoy 79. Corsoy 79 reached maturity on 9/15/91.

Table 4. Summary of Yields From the Central Testing Regions.

Brand	Entry	All Central Locations			1991	1991	1991	Maturity† (days)	Height (in)	Lodging Score
		1991 Avg.	90-91 Avg.	89-91 Avg.	Ingham County	Saginaw County	Sanilac County			
Public	ARCHER	56.5	55.4	.	61.5	59.6	48.5 *	-3	38	2.1
Public	BELL	55.6	.	.	65.5	57.2	44.0	-1	35	2.3
Public	BSR 101	56.9	54.1	55.6	61.6	58.4	50.9 *	-3	37	1.8
Public	BURLISON	55.9	56.9	56.5	66.8	59.6	41.4	8	39	2.1
Public	CENTURY 84	54.9	52.7	53.2	61.8	57.0	45.9	7	42	2.0
Public	CHAPMAN	60.2	.	.	67.4	63.1 *	50.0 *	3	39	1.7
Public	CONRAD	64.1 *	59.2	59.9	74.2 *	66.5 *	51.6 *	1	38	1.9
Public	CORSOY 79	57.1	56.0	53.4	55.0	63.7 *	52.5 *	0	44	2.8
Public	DIMON	58.5	58.3	.	74.2 *	58.8	42.6	-1	34	2.0
Public	E86237	55.2	.	.	58.6	56.0	51.0 *	-6	39	2.0
Public	E86248	59.3	.	.	67.3	60.0	50.6 *	-2	38	2.8
Public	E86315	57.5	.	.	69.0	56.9	46.7	-1	38	2.0
Public	E88080	59.3	.	.	71.1	61.3	45.7	2	40	2.0
Public	E90010	47.5	.	.	54.8	52.9	34.8	-5	37	2.2
Public	E90029	58.5	.	.	61.2	64.4 *	49.9 *	-1	41	2.4
Public	E90070	61.6	.	.	73.0 *	60.7	50.9 *	7	39	2.7
Public	ELGIN 87	58.8	54.6	56.9	68.5	61.9	46.1	-1	35	2.2
Public	HACK	59.5	56.5	.	63.2	64.4 *	50.8 *	4	40	2.6
Public	HARDIN	56.4	55.6	57.0	56.6	61.8	50.8 *	-1	47	2.7
Public	HODGSON 78	52.1	55.2	55.8	53.2	59.7	43.3	-8	39	2.7
Public	JACK	58.6	57.3	57.8	68.3	60.0	47.5	10	47	3.2
Public	KASOTA	53.5	.	.	57.9	54.0	48.5 *	-7	35	2.1
Public	KATO	51.1	49.7	.	55.1	49.4	48.8 *	-9	37	1.9
Public	KENWOOD	61.2	56.9	58.9	67.4	63.1 *	53.2 *	-1	39	2.4
Public	KUNITZ	40.2	.	.	55.7	31.3	33.6	11	44	2.9
Public	PELLA 86	56.3	56.0	55.2	63.0	58.1	47.7	5	40	2.0
Public	PRESTON	55.9	.	.	63.0	54.2	50.3 *	3	43	2.9
Public	RESNIK	54.8	55.5	55.1	68.3	54.1	41.9	9	38	1.9
Public	SHERMAN	57.9	57.2	54.7	71.6 *	57.8	44.3	12	37	3.0
Public	SIBLEY	54.7	53.4	54.8	58.3	58.1	47.6	-5	36	2.7
Public	STURDY	56.9	56.6	58.1	62.9	61.8	45.9	-1	37	2.3
Public	VINTON 81	50.3	.	.	52.8	54.8	43.3	-1	40	2.2
Public	ZANE	58.8	58.2	58.1	68.6	58.0	49.9 *	8	43	2.1
Asgrow	A2234	58.8	59.1	58.6	67.0	57.7	51.6 *	-3	33	1.1
Callahan	6180	58.5	57.2	58.2	62.5	65.0 *	47.9	-8	37	1.8
Callahan	8252	65.2 *	60.7	60.2	77.5 *	65.8 *	52.4 *	2	39	2.1
Callahan	1170X	59.2	56.6	57.5	68.0	60.1	49.6 *	-6	32	1.3
Callahan	1288X	58.0	56.9	.	70.1	53.1	50.9 *	4	33	1.6
Callahan	2200X	59.7	.	.	67.5	67.7 *	43.9	-1	36	2.2
Callahan	2215X	62.8 *	.	.	71.1	65.0 *	52.2 *	-1	37	1.6
Callahan	2232X	64.8 *	.	.	72.8 *	66.0 *	55.5 *	-2	39	1.9
Callahan	2244X	60.5	.	.	71.7 *	62.8	46.9	1	38	2.3
Callahan	2255X	67.1 *	.	.	78.6 *	72.4 *	50.5 *	6	39	2.1
Callahan	9222X	61.1	58.5	58.2	61.8	67.3 *	54.2 *	0	41	2.6
Callahan	9270X	61.0	59.4	61.0	72.1 *	66.2 *	44.6	5	37	1.9
Countrymark	EXP 17292	60.4	.	.	64.5	63.1 *	53.6 *	3	44	1.4
Countrymark	FFR 193	59.3	.	.	63.2	62.2	52.5 *	-3	40	1.3
Countrymark	FFR 253	54.5	54.9	55.6	61.9	58.6	42.9	6	39	2.1
Countrymark	FFR 299	56.4	.	.	57.5	60.8	50.8 *	9	43	2.8
Dairyland	DSR-170	57.9	56.0	57.1	67.6	62.5	43.5	-6	37	2.3
Dairyland	DSR-173	60.9	.	.	68.8	64.8 *	49.3 *	-7	36	1.1
Dairyland	DSR-217	64.9 *	.	.	70.9	73.0 *	51.0 *	2	38	2.2
Dairyland	DSR-252	60.9	56.7	56.6	68.7	65.0 *	49.0 *	-1	36	2.0
Dairyland	DSR-262	57.6	57.1	57.0	63.9	61.3	47.6	5	40	2.4
Dairyland	DSR-288	60.0	.	.	73.3 *	56.2	50.5 *	1	35	1.2
DeKalb	CX259	61.8	58.1	.	71.8 *	66.5 *	47.2	4	40	2.2
DeKalb	CX267	60.1	.	.	66.1	65.1 *	49.2 *	4	39	2.1
DeKalb	CX298	56.3	56.6	54.9	73.0 *	50.2	43.6	9	36	2.1
Diamond	D200	59.6	.	.	62.2	69.1 *	47.6	-3	41	2.3
Diamond	SC232	63.1 *	.	.	74.9 *	61.9	52.6 *	2	37	2.1
Diehl Fields	DF-191	54.5	.	.	56.9	62.0	44.6	-4	35	1.8
Diehl Fields	DF-231	59.8	59.7	.	73.9 *	62.2	43.4	4	38	1.8
(Cont'd)										
Average		58.9	57.1	57.2	67.0	61.5	48.2	1	39	2.1
LSD(.05)		5.0	.	.	7.4	10.0	8.3			

* Denotes a yield that is not significantly less than the highest yield in the column.

† Maturities are given in days relative to Corsoy 79. Corsoy 79 reached maturity on 9/22/91.

Table 4. (Cont'd) Summary of Yields From the Central Testing Regions.

Brand	Entry	All Central Locations			1991 Ingham County	1991 Saginaw County	1991 Sanilac County	Maturity† (days)	Height (in)	Lodging Score
		1991 Avg.	90-91 Avg.	89-91 Avg.						
Funk's G	G3185	57.1	55.0	56.2	61.9	60.2	49.3 *	-4	38	1.9
Funk's G	G3197	58.1	.	.	68.0	59.5	46.9	-6	33	1.4
Funk's G	G3232	56.8	.	.	68.4	56.1	45.9	7	44	2.7
Funk's G	G3258	62.8 *	60.7	.	69.3	64.9 *	54.1 *	2	39	2.1
G. Harvest	H-1170	58.0	54.8	.	66.2	63.2 *	44.6	-6	36	2.0
G. Harvest	H-1208	60.7	56.4	58.2	64.9	61.6	55.6 *	0	43	2.2
G. Harvest	H-1260	62.5 *	.	.	71.6 *	62.9	52.9 *	1	38	1.8
G. Harvest	H-1271	67.4 *	59.4	58.7	77.8 *	68.8 *	55.5 *	6	42	2.2
G. Harvest	H-1278	60.4	.	.	74.2 *	60.8	46.2	10	36	1.9
G. Harvest	H-1303	57.2	60.7	58.5	69.3	60.2	41.9	12	42	2.3
Great Lakes	GL2291	63.3 *	.	.	71.7 *	65.5 *	52.5 *	4	44	2.8
Great lakes	GL2304	62.9 *	62.1	.	72.3 *	66.2 *	50.0 *	3	40	2.1
Great Lakes	GL2598	65.5 *	.	.	73.2 *	71.7 *	51.7 *	6	43	2.2
Gries Seed	GSF275	63.8 *	.	.	77.6 *	66.7 *	47.0	7	38	2.0
Gries Seed	GSF330	51.1	61.6	.	68.4	49.4	35.4	12	42	2.4
Jacques	J-181	58.3	56.3	57.4	61.6	59.7	53.5 *	-7	35	1.8
Kaiser-Estech	KE 156	59.4	58.3	58.7	64.5	67.3 *	46.4	-6	38	1.8
Kaiser-Estech	KE 220	61.3	.	.	66.3	70.7 *	47.0	5	40	2.7
King Grain	GG1800	59.4	.	.	67.7	59.9	50.7 *	-7	37	1.9
King Grain	GG2700	62.0	57.6	58.5	72.0 *	62.4	51.6 *	4	39	1.3
King Grain	KG100	56.1	55.6	56.3	67.0	59.1	42.1	11	42	2.6
King Grain	KG60	47.8	.	.	54.4	51.7	37.2	-11	29	2.1
Northrup King	S19-90	63.8 *	62.1	61.0	71.9 *	66.5 *	53.0 *	-5	37	1.4
Northrup King	S20-20	63.7 *	.	.	67.9	67.1 *	56.3 *	-4	40	1.9
Northern Star	NS-2291	63.3 *	.	.	72.8 *	65.7 *	51.3 *	-1	38	1.6
Pioneer	9171	61.4	57.0	.	70.7	63.8 *	49.6 *	-7	33	1.3
Pioneer	9231	59.0	.	.	67.3	61.7	48.2 *	-2	33	1.1
Pioneer	9273	61.8	60.8	.	71.9 *	68.2 *	45.4	3	37	1.7
Pioneer	9301	61.1	60.7	59.1	70.8	63.8 *	48.8 *	8	44	3.0
Pioneer	9341	56.9	56.2	.	74.4 *	58.0	38.5	12	40	2.0
Pro-Seed	PS215	60.2	59.5	59.2	62.0	69.1 *	50.1 *	6	37	2.6
Pro-Seed	PS245	64.6 *	.	.	67.7	69.7 *	56.4 *	6	45	2.2
Renk Seeds	RS-1992	58.0	.	.	65.6	61.2	47.2	-5	37	1.9
Renk Seeds	RS-2191	59.4	.	.	67.3	62.8	48.2 *	1	39	2.7
Rupp Seeds	RS2308	60.0	.	.	66.9	64.3 *	48.8 *	-2	36	1.8
Rupp Seeds	RS2323	59.7	56.9	57.1	70.8	59.3	49.0 *	1	39	2.2
Rupp Seeds	RS2444	61.1	57.4	.	72.3 *	61.3	49.5 *	6	38	1.8
Rupp Seeds	RS2503	56.2	.	.	65.8	57.7	45.3	7	39	2.4
Sag. Valley	SVS 181	64.0 *	.	.	73.1 *	67.0 *	51.9 *	-7	37	1.9
Sag. Valley	SVS 183	59.0	.	.	67.0	61.4	48.6 *	-7	37	2.3
Terra Int.	EX 299	60.1	.	.	68.9	61.3	50.1 *	10	39	2.0
Terra Int.	FLAG	57.3	55.4	56.4	66.9	58.1	46.8	-8	35	1.8
Terra Int.	HURDLE	57.4	50.0	51.1	63.5	62.2	46.4	3	38	2.4
Terra Int.	MEDALIST	61.2	58.9	59.2	74.7 *	62.8	46.1	6	40	2.7
Terra Int.	RUNNER III	60.8	.	.	69.3	67.4 *	45.7	-5	36	1.9
Terra Int.	SPRINT	60.3	59.3	58.0	65.8	65.7 *	49.4 *	8	41	2.7
Terra Int.	WINNER	62.8 *	58.4	58.2	70.4	66.1 *	52.0 *	2	41	2.3
Average		58.9	57.1	57.2	67.0	61.5	48.2	1	39	2.1
Maximum		67.4	62.1	61.0	78.6	73.0	56.4	12	47	3.2
Minimum		40.2	49.7	51.1	52.8	31.3	33.6	-11	29	1.1
CV		9.1%	.	.	6.9%	10.2%	10.7%			
LSD(.05)		5.0	.	.	7.4	10.0	8.3			

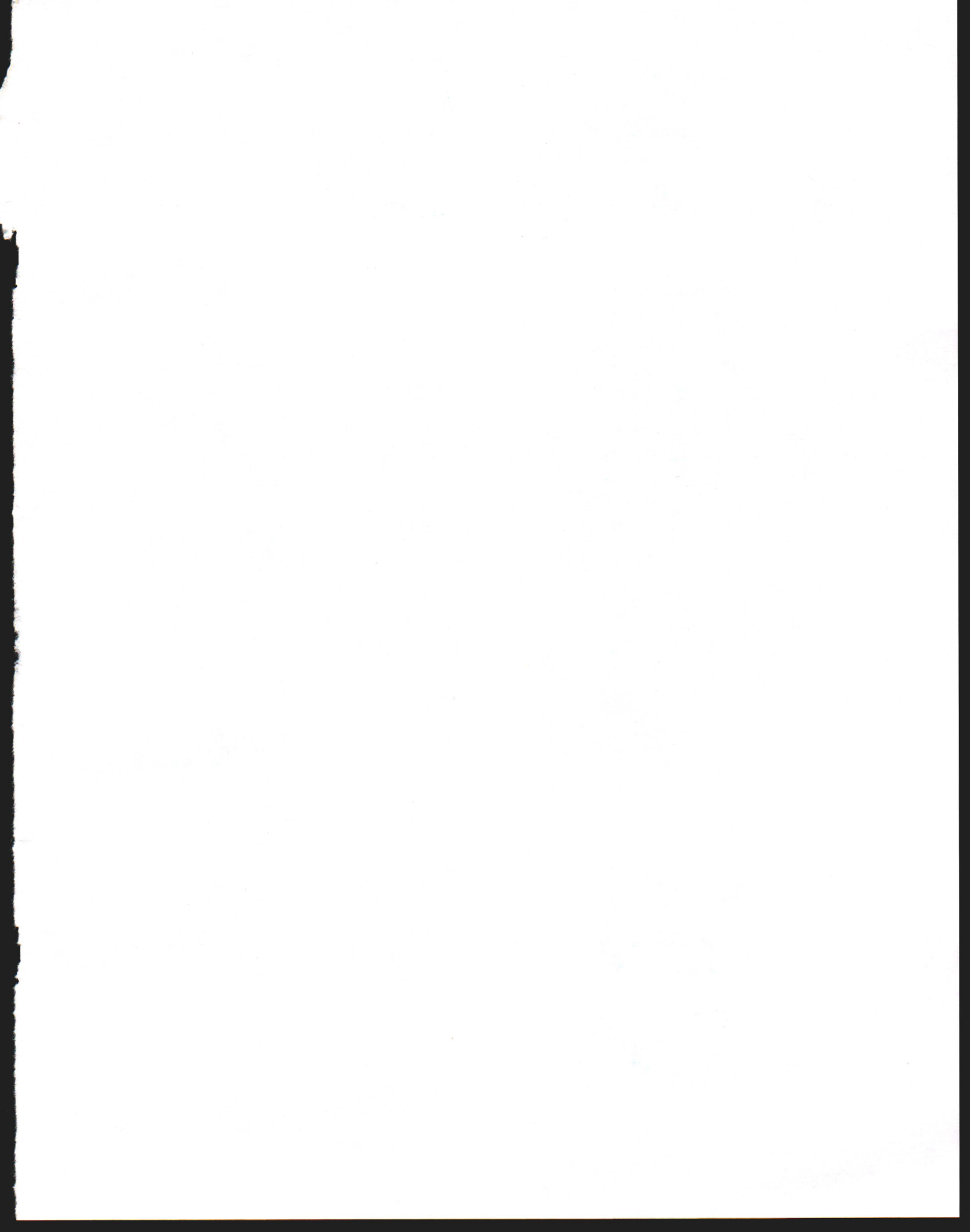
* Denotes a yield that is not significantly less than the highest yield in the column.
 † Maturities are given in days relative to Corsoy 79. Corsoy 79 reached maturity on 9/22/91.



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Companies with Varieties Entered in 1991 Trials

<u>BRAND</u>	<u>COMPANY ADDRESS</u>	<u>BRAND</u>	<u>COMPANY ADDRESS</u>
ASGROW	Asgrow Seed Company 7000 Portage Road Kalamazoo, MI 49001	KAISER/ESTECH	Kaiser/Estech 7450 Riga Hwy., P.O. Box 8 Riga, MI 49276
CALLAHAN	Callahan Seeds 1122 East 169th Street Westfield, IN 46074	KING AGRO	King Agro, Inc. P.O. Box 69 Blissfield, MI 49228
COUNTRYMARK	Countrymark Co-op, Inc. 4565 Columbus Pike Box 1206 Delaware, OH 43015	NORTHERN STAR	Northern Star Box 587 Mendon, MI 49072
DAIRYLAND	Dairyland Seed Co., Inc. P.O. Box 958 3570 Hwy. H West Bend, WI 53095	NORTHROP KING	Northrup King Co. 5380 Knollwood Drive Lewisburg, OH 45338
DEKALB	Dekalb Plant Genetics 3100 Sycamore Road Dekalb, IL 60115	PIONEER	Pioneer Hi-Bred Int., Inc. 1000 West Jefferson St. Tipton, IN 46072
DIAMOND	ICI Seeds, Inc. Rt. 2, Box 92A Carroll, IA 51401	PRO-SEED	Pro-Seed 236 Sugar Street P.O. Box 55 Blissfield, MI 49228
DIEHL FIELDS	Diehl Fields 905 South Jackson Dansville, MI 48819	RENK	Renk Seed Company 6800 Wilburn Road Sun Prairie, WI 53590
FUNK'S G BRAND	Ciba-Geigy Seed Division 12275 S Sherman Lake Dr. Augusta, MI 49012	RUPP SEEDS	Rupp Seeds, Inc. 17919 County Road B Wauseon, OH 43567
GOLDEN HARVEST	Sommer Bros. Seed Co. P.O. Box 248 Pekin, IL 61554	SAGINAW VALLEY SEEDS	Saginaw Valley Seed 6674 Janes Road Saginaw, MI 48601
GREAT LAKES HYBRIDS	Great Lakes Hybrids 9915 West M-21 Ovid, MI 48866	STINE	Stine Seed Company 2225 Laredo Trail Adel, IA 50003
GRIES SEED FARM	Gries Seed Farm, Inc. 2348 North Fifth Street Fremont, OH 43420	TERRA	Terra International, Inc. 600 Fourth Street Sioux City, IA 51101
JACQUES	Jacques Seed Company 720 St. Croix Street Prescott, WI 54021		