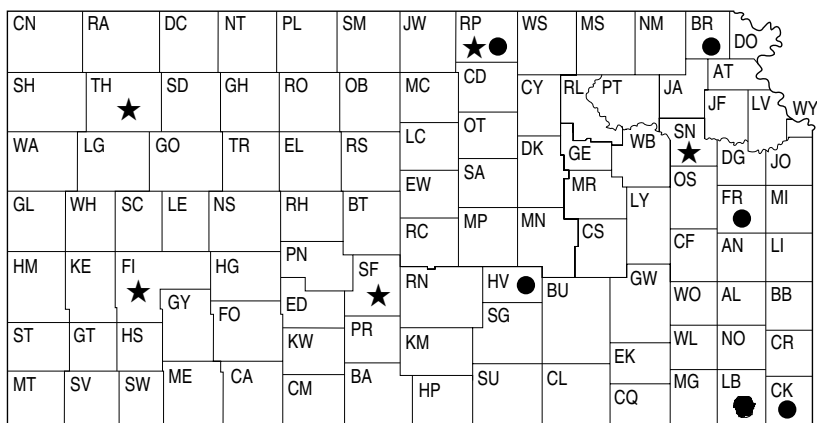




1996

KANSAS PERFORMANCE TESTS WITH

SOYBEAN VARIETIES



● dryland ★ irrigated

Report of Progress 776

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1996 KANSAS SOYBEAN PERFORMANCE TESTS

INTRODUCTION

TEST OBJECTIVES AND PROCEDURES

Soybean performance tests are conducted each year to provide information on the relative performance of new and established varieties and brands at several locations in Kansas.

Seeds for tests are from certified growers, agricultural experiment stations, and private seed companies (Table 1). Seed quality, including such factors as purity and germination, can be important in determining the performance of a variety. Soybean seed used for public and private entries in the Kansas Crop Performance Tests is prepared professionally and usually meets or exceeds Kansas Crop Improvement Certification standards. Relative performance of a given variety comparable to that obtained in these tests is best assured under similar environmental conditions and cultural practices and with the use of certified or professionally prepared seed. All companies known to be developing and marketing soybean varieties or brands are invited to submit test seed; interested companies enter on a voluntary, fee-entry basis.

Entries were planted in four-row plots with rows 30 inches apart and replicated three or four times each. Seeding rate ranged from seven to 12 seeds per foot of row. The center two rows of each plot were harvested for yield estimates at all locations, except Finney County where all four rows were harvested. Harvested row lengths ranged from 16.5 to 28 feet, depending on location. Cultural practices used and rainfall received at each test location are given in Table 2. Results from this year's tests, compared with

those from previous years, are presented in Tables 3 through 12. Relative yields of each entry from all locations are shown in Table 13.

Entries were grouped according to their time of maturity into two or three tests in order to facilitate harvest and to improve the precision of yield measurements. Maturity information used to separate entries was provided by the entrant.

For the past several years, Experiment Station personnel have conducted trials to evaluate the performance of soybean varieties when grown in soil infested with soybean cyst nematode (SCN). Again this year, interested companies submitted entries in this test on a voluntary, fee-entry basis. A summary of results for the past 4 years is included in Table 12 (Cherokee County). Entries resistant and susceptible to SCN are evaluated in these trials.

DATA INTERPRETATION

Yields are recorded as bushels per acre (60 pounds per bushel) adjusted to 13% moisture content, when moisture data are available. Seed yield also is expressed as a percentage of the test average to assist in identifying entries that consistently produce better than the average yield.

Maturity is the date on which 95% of the pods have ripened (browned). Delayed leaf drop and green stems are not considered when assigning maturity. Maturity is expressed as days earlier (-) or later (+) than the average date of the reference variety. About 1 week of good drying weather after

maturing is needed before soybeans are ready to harvest.

Lodging is rated at maturity by the following scores:

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

Height is the average length from the soil surface to the top of the main stem of mature plants.

Chlorosis tolerance is rated during the early part of the growing season on a 1 to 9 scale with: 1 = no chlorosis and 9 = severe chlorosis. All public and private entries in this year's performance test were evaluated for chlorosis tolerance near Lindsborg, KS. Results from these evaluations are shown in Table 14. Ratings shown in this table are the averages of four readings, the first taken when one trifoliolate leaf had emerged and the last reading when the sixth trifoliolate leaf had emerged. Because these results represent only one environment, they should be used to complement additional information.

VARIETY OR BRAND SELECTION

Performance of soybean varieties or brands varies from year to year and from location to location, depending on such factors as weather, management practices, and variety adaptation. When selecting varieties or brands, one should carefully analyze their performance for 2 or more years across

locations. Performance averaged over several years will provide a better estimate of genetic potential and stability than will 1 year's information.

Small differences in yield between any two varieties or brands usually are not important.

Within maturity groups at each location, an LSD (least significant difference) was calculated. The significance level used to calculate the LSD in 1994 and 1995 was 10%. This is a less conservative value compared to the significance level of 5% used in previous years. Unless two varieties differ in yield by more than the LSD, genetic yield potential of one entry cannot be considered superior to that of another.

At the sites where entries were grouped by maturity, an additional LSD value is listed at the bottom of the table. This LSD value may be used to compare the yields of entries in different maturity groups. For example, the yield of an entry in the group III test at Brown County may be compared with the yield of an entry in the group IV test at the same location to determine if they are statistically different.

The coefficient of variability (CV) represents an estimate of the precision in the replicated yield trials. A CV of less than 10% indicates a good test with a high level of reliability. CVs ranging from 10 to 15% are usually acceptable for performance comparisons. CVs greater than 15% generally lack sufficient precision to provide any more than a rough guide to cultivar performance. In those tests in which the precision was insufficient to statistically compare performance among the entries, the LSD value has been replaced with the designation, NS, indicating that seed yields were not significantly different.

1996 ENVIRONMENTAL FACTORS

Brown County: Abundant rainfall in May delayed planting, but good growing conditions prevailed throughout the season.

Shawnee County: This test was inadvertently planted on a site infested with soybean cyst nematode. Infestations of the nematode in the plot area were highly variable. In certain areas of the field, yields were reduced to below 15 bushels per acre because of the infestations. Attempts were made to delete the most severely infested plots, but a high level of experimental error remained in the unbalanced analyses. Because of this low level of precision, the results of the test are not included in this report.

Franklin County: Growing conditions during the season were generally favorable, with timely moisture.

Labette County: Good growing conditions existed throughout most of the season. Hot weather occurred in early July, and soil moisture became short toward the end of August, placing the later maturing entries under some drought stress.

Republic County: Both the Belleville and Scandia locations experienced a dry June, but rainfall and temperatures in July and August were near ideal. The Scandia site was irrigated twice in August, but rain fell either during irrigation or shortly after, so the benefit of the supplemental water probably was limited.

Harvey County: Rainfall amounts were about average for the first 2 months after planting. However, timely rainfall in August resulted in minimal moisture stress and the highest yields achieved at this location for several years.

Stafford County: A cool wet June and good moisture throughout the season resulted in less irrigation water applied at this site. Overall, growing conditions were good and harvest conditions were excellent.

Thomas County: Temperatures were below average and rainfall was above average throughout the growing season. Only 2 inches of irrigation water were applied during plant development.

Finney County: Total rainfall during the season was fairly similar to the long-term average. Growing conditions were good, with fewer iron chlorosis problems than had been observed in the past.

Cherokee County: This location received more rainfall during the growing season than any other location, but rainfall distribution was less than ideal. Heavy rains in early August followed by limited moisture resulted in some drought stress and reduced yields. The soybean cyst nematode (SCN) populations continued to be high at this site. The SCN-resistant entries yielded 5 to 6 bushels more per acre than the SCN-susceptible entries.

TABLE 1. SUMMARY OF ENTRANTS AND ENTRIES IN PERFORMANCE TESTS.

ENTRANT	BRAND OR ENTRY	ENTRANT	BRAND OR ENTRY
Illinois A.E.S. and USDA-ARS	Hamilton, Macon, Williams 82	Lewis Hybrids, Inc. (Lewis) P.O. Box 38, W. Maple St. Ursa, IL 62376	349, 360, 390, 409
Indiana A.E.S. and USDA-ARS	Probst		
Iowa A.E.S.	IA2007, IA2022	Medallion Seeds (Medallion) RR 2 Box 418 Eudora, KS 66025	M 3909, M 4007, M 4805
Kansas A.E.S.	Crawford, Sparks, KS3494, KS4694, KS4895, KS5292, K1218 EXP, K1231 Exp, K1235 Exp, K1276 EXP, K1277 EXP, K1278 EXP, K1298 EXP, K1303 EXP, K1305 EXP, K1307 EXP, K1308 EXP, K1309 EXP, K1330 EXP, K1331 EXP, K1333 EXP, K1335 EXP	Merschman Seeds (Merschman) 103 Ave. D West Point, IA 52656	Atlanta III, Madison IV, Nashville, Phoenix
Maryland A.E.S	Manokin	Midland Seeds Inc. (Midland) 980 Hwy 15 Hope, KS 67451	8282, 8321, 8333 STS, 8325, 8340, 8355, 8356, 8371, 8375, 8386 STS(EXP 38STS), 8393, 8401CN, 8410, 8413, 8475, 8486 (EXP 481), 8487NB (EXP 48N), XP283, XP411
Mississippi A.E.S. and USDA-ARS	Forrest, Hartwig	Midwest Seed Genetics (MSG) PO Box 518 Carroll, IA 51401	2930, G 2804(X804), G 3555, G 3626, G 3996(OHLDE 3996), G4320, G5023N, O 4440(OHLDE)
Missouri A.E.S.	Delsoy 4710, Delsoy 4900, Delsoy 5500	Mycogen Plant Sciences (Mycogen) 720 St. Croix Street Prescott, WI 54021	395, 429, 470, J-399
Nebraska A.E.S.			
North Carolina A.E.S.	Dunbar Holladay		
Ohio A.R.D.C. and USDA-ARS	Edison, Flyer, Stressland, Resnik, Sherman	NC+ Hybrids (NC+) Box 4408 Lincoln, NE 68504	3A67, 3A75, 3A96, 4A10, 4A27, 4A47, 5A15, 5A44
Virginia A.E.S.	Essex, Hutcheson, Stafford	NeCo Seed Farms, Inc. (NeCo) P.O. Box 379 Garden City, MO 64747	7446
AgriPro Bioscience, Inc. (Agripro) Route 2 Hwy 30 East Ames, IA 50010	AP 3727, AP 4100, AP 4464	Northrup King (Northrup-King) 1060 Wheatland Dr. Buhler, KS 67522	S30-06, S35-35, S39-41, S42-60, S46-44, S52-25, S57-11
Asgrow Seed Co. (Asgrow) 2605 East Kilgore Kalamazoo, MI 49002	A3244, A3834, A4341, A4922, A5547	Patriot Seed Company (Patriot) 208 S. Worrell, Box 97 Bowen, IL 62316	390, 391, 457N, 482N, 530N, 555N, 7372N, 7430N, 7459N, 7520N
Dekalb Plant Genetics (Dekalb) 3100 Sycamore Rd. Dekalb, IL 60115	CX368, CX377, CX399, CX411, CX434, CX445, CX469C, CX494, CX510C	Pioneer Hi-Bred Int., Inc. (Pioneer) 1616 S. Kentucky, Ste. C-150 Amarillo, TX 79102	9321, 9333, 9343, 9362, 9381, 9391, 9393, 9395, 9412, 9421, 9481, 9491, 9521
DeLange Seed (DeLange) P.O. Box 7 Girard, KS 66743	DS 390, DS 410, DS 466, DS 485	Star Seed Inc. (Star) 101 Industrial Ave. Osborne, Kansas 67473	BLAZER, BOUNTY STS, CELEBRITY, EXPRESS II GALAXY, QUEST
Pueblo Chemical Supply (Dyna-Gro) Box 1279 2502 John St. Garden City, KS 67846	3368, 3395 (UAPX-145)* 3444N, 3502N	Stine Seed Co. (Stine) 2225 Laredo Trail Adel, IA 50003	3171, 3470, 3480, 3660, 3786, 3870, 4650, 4680
Fontanelle Hybrids (Fontanelle) Route 1, Box 18 Nickerson, NE 68044	3376, 6100, 6104, EXP9474	Taylor Seed Farms, Inc. (Taylor) Route 2, Box 27A White Cloud, KS 66094	395, 399, 454, EXP 93T355
The J.C. Robinson Seed Co. (Golden Harvest) 100 J. C., Robinson Blvd. Waterloo, NE 68069	H-1353, H-1388, H-1454(X 454), H-1485, H-1500(X 500)	Terra International, Inc. (Terra) 600 Fourth Street, P.O. Box 6000 Sioux City, IA 51102-6000	TS364, TS393, TS402, TS415(E415), TS4292(E4292), TS474(E474), TS4792(E4792), TS5504
Great Lakes Hybrids (Great Lakes)GL 9915 W. M-21 Ovid, MI 48866	GL 3145, GL 3396, GL 4341	Midland Soybean Development Assoc. P.O. Box 379 (Willcross) Garden City, MO 64747	92A, 92B, 9435A, 9435B, 9447A, 9447B, 9531,9536, 9540A, 9540B, 9541N, 9547N, 9635, 9639, 9640, 9644N, 9650N,
Hamon Seed Farms (Hamon) Route 1, Box 71 Valley Falls, KS 66088-9725	435	Wilson Seeds, Inc. (Wilson) P.O. Box 391 Harlan, IA 51537	3670, 4010
Hoegemeyer Hybrids (Hoegemeyer) 1755 Hoegemeyer Road Hooper, NE 68031-2125	312, 362, 365, 380, 401, 435		
ICI Seeds (ICI) 2369 330th St., Box 500 Slater, IA 50244	D371, D454, D473, D478, D485		

* Brand or entry in () indicates designation in previous years.

TABLE 2. LOCATIONS, CULTURAL PRACTICES, AND RAINFALL FOR 1996 SOYBEAN PERFORMANCE TESTS.

ITEM	COUNTY: DRYLAND						COUNTY: IRRIGATED					
	BROWN	FRANKLIN	LABETTE	CHEROKEE E*	REPUBLIC	HARVEY	REPUBLIC	STAFFORD	FINNEY	THOMAS		
Cooperator	B. Marsh (913) 474-3469	K. Janssen (913) 242-5616	J. Long (316) 421-4826	J. Long (316) 421-4826	B. Gordon (913) 335-2836	M. Claassen (316) 327-2547	B. Gordon (913) 335-2836	V. Martin (316) 549-3345	M. Witt (316) 276-8286	P. Evans (913) 462-6281		
Station or field	Powhattan	Ottawa	Parsons	Columbus	Belleville	Hesston	Scandia	St. John	Garden City	Colby		
Soil: Texture	Silty clay loam	Silt loam	Silt loam	Silt loam	Silt loam	Silt loam	Silt loam	Sandy loam	Silt loam	Silt loam		
pH	6.6	6.1	6.7	7.0	6.2	6.4	6.4	6.0	8.0	7.4		
Organic matter (%)	3.0	2.5	---	---	2.5	2.5	2.8	0.6	1.2	3.5		
P test	L	---	M	L	H	---	H	H	---	---		
K test	H	---	M	L	VH	---	VH	M	---	---		
Planting date	6/12	5/24	6/3	6/4	5/21	5/23	5/20	6/7	5/15	5/21		
Herbicides** (per acre)	2.75 pt. Broadstrike + Dual	2.33 pt. Tri-Scept	3.0 pt. Squad.	2 qt. Freedom 2 oz. Sceptre DF	.5 lb. Sencor 1.5 pt. Prowl	.25 pt. Pursuit 2L	2.5 pt. Pur. Plus	1 qt. Dual 2.5 pt. Pur. Plus	2.5 pt. Pur. Plus	1.5 pt. Tref.		
Fertilizer (lbs/a)	none	none	18N,72P, 72K	18N,72P, 72K	30N,30P, 0K	none	30N,30P,0K	18N,46P, 0K	none	6N,20P,0K		
Test avg. (bu/a)												
MG II										43.1 (11.8)		
MG III	62.6 (4.7)***	52.4 (6.1)	47.6 (6.1)		64.5 (6.9)	53.9 (13.2)	61.3 (3.9)	54.2 (8.8)	51.1 (10.8)	54.0 (6.5)		
MG IV	60.4 (5.7)	50.4 (8.3)	43.2 (6.7)		60.9 (9.7)	55.7 (12.1)	63.5 (3.4)	57.8 (7.5)	51.5 (12.1)			
MG V			41.7 (7.6)	30.1 (10.8)								
Row length (ft)	25	28	16.5	16.5	20	25	25	28	20	20		
Seeding rate (seeds/ft.)	6	8	8	8	10	7	10	10	10			
Rows harvested	2	2	2	2	2	2	2	2	4	2		
Rainfall (R) or Irrigation (I)	R	R	R	R	R	R	R I	R I	R I	R I		
April	1.40	3.89	3.13	7.57	2.10	2.03	1.97	3.08	0.38	1.28 5.00		
May	7.69	7.85	4.75	3.54	7.50	6.13	5.43	5.66	2.38	4.03		
June	3.85	5.05	1.97	1.75	0.58	2.98	0.53	8.03 1.6	4.18	6.02		
July	5.40	6.27	3.23	4.62	5.69	2.58	5.36 4.30	4.93 6.3	3.02 4.00	5.45		
August	5.54	5.79	5.10	11.05	3.87	7.27	3.74	5.41 1.8	4.31 8.00	3.85 2.00		
September	<u>3.07</u>	<u>3.04</u>	<u>8.81</u>	<u>5.87</u>	<u>4.35</u>	<u>3.49</u>	<u>4.13</u>	<u>5.45</u> <u>1.1</u>	<u>2.56</u> <u>4.00</u>	<u>3.82</u>		
Total	26.95	31.89	26.99	34.40	24.09	24.48	21.16 4.30	32.56 10.8	16.83 16.00	24.45 7.00		

* Soybean Cyst Nematode infested location. ** Squad. = Squadron, Scep. = Sceptor, Tref. = Treflan, Pur. = Pursuit. *** Coefficient of variability.

TABLE 3. BROWN COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1993-96.

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT	LODGING SCORE	HT IN
		1996	1995	1994	1993	2-Yr	3-Yr	4-Yr	1996	1995	1994	1993			
MATURITY GROUPS II-III															
	IA2007BC	59.0	15.3	---	---	37.1	---	---	94	82	---	---	-11	1.0	33
	DUNBAR	63.7	---	---	---	---	---	---	102	---	---	---	-6	1.3	35
	SHERMAN	65.9	26.6	35.4	20.8	46.2	42.6	37.2	105	143	92	96	-6	1.0	33
WILLCROSS	9531	62.1	---	---	---	---	---	---	99	---	---	---	-6	1.0	35
	KS3494	58.3	19.8	38.9	23.4	39.0	39.0	35.1	93	107	101	108	-6	1.0	33
WILLCROSS	9435A	54.2	16.5	41.9	---	35.4	37.5	---	87	89	109	---	-6	1.0	32
	IA2022	63.1	---	---	---	---	---	---	101	---	---	---	-6	1.0	34
NORTHRUP KING	S35-35	56.7	15.6	---	17.1	36.2	---	---	91	84	---	79	-6	1.0	33
NORTHRUP KING	S30-06	65.9	19.5	39.2	20.1	42.7	41.5	36.2	105	105	102	93	-6	1.0	34
	365	65.0	23.1	39.5	22.2	44.0	42.5	37.4	104	124	102	103	-6	1.0	33
WILLCROSS	9435B	55.4	15.8	---	---	35.6	---	---	88	85	---	---	-6	1.0	31
	RESNIK	57.3	13.0	37.4	22.7	35.1	35.9	32.6	92	70	97	105	-6	1.0	33
ASGROW	A3244	70.1	---	---	---	---	---	---	112	---	---	---	-6	1.0	32
LEWIS	349	65.7	22.6	---	---	44.1	---	---	105	122	---	---	-6	1.0	35
WILLCROSS	9536	64.1	---	---	---	---	---	---	102	---	---	---	-5	1.0	33
ICI	D371	68.4	17.2	44.7	20.1	42.8	43.4	37.6	109	93	116	93	-5	1.0	33
GOLDEN HARVEST	H-1353	68.7	24.4	37.3	20.7	46.6	43.5	37.8	110	132	97	96	-5	1.0	32
NORTHRUP KING	S39-41	58.3	17.5	39.4	21.1	37.9	38.4	34.1	93	94	102	98	-5	1.0	38
DEKALB	CX377	61.1	17.1	39.1	---	39.1	39.1	---	98	92	102	---	-5	1.3	37
	EDISON	60.1	21.5	39.1	23.7	40.8	40.2	36.1	96	116	101	110	-5	1.0	32
MIDLAND	8355	62.8	16.4	40.7	---	39.6	40.0	---	100	88	106	---	-5	1.0	30
PIONEER	9362	63.1	19.0	39.9	---	41.0	40.6	---	101	102	103	---	-5	1.0	36
STINE	3660	71.0	28.8	37.7	---	49.9	45.8	---	113	155	98	---	-5	1.0	32
	PROBST	59.8	20.0	39.4	---	39.9	39.7	---	95	108	102	---	-5	1.0	34
FONTANELLE	3376	60.0	---	---	---	---	---	---	96	---	---	---	-5	1.0	35
MYCOGEN	J-399	58.4	---	---	---	---	---	---	93	---	---	---	-5	1.0	35
DEKALB	CX368	62.1	17.6	---	---	39.9	---	---	99	95	---	---	-5	1.0	33
TAYLOR	EXP 93T355	63.5	---	---	---	---	---	---	101	---	---	---	-5	1.0	37
STINE	3786	65.9	---	---	---	---	---	---	105	---	---	---	-5	1.0	35
WILSON	3670	63.3	20.5	---	---	41.9	---	---	101	111	---	---	-5	1.0	34
PIONEER	9395	62.7	---	---	---	---	---	---	100	---	---	---	-5	1.0	34
FONTANELLE	EXP9474	58.4	---	---	---	---	---	---	93	---	---	---	-5	1.0	33
MSG	G 3555	64.7	---	---	---	---	---	---	103	---	---	---	-5	2.0	38
DYNA-GRO	3368	68.1	23.2	42.2	---	45.6	44.5	---	109	125	110	---	-4	1.0	34
PIONEER	9391	62.0	14.6	---	25.1	38.3	---	---	99	79	---	116	-4	1.3	40
MIDLAND	8393	60.4	18.1	37.7	25.3	39.3	38.7	35.4	97	98	98	117	-2	1.3	42
FONTANELLE	6100	58.4	21.9	38.2	23.2	40.1	39.5	35.4	93	118	99	107	-2	1.3	36
HOEGEMEYER	380	68.1	27.0	38.5	24.1	47.5	44.5	39.4	109	146	100	112	-1	1.0	35
WILLCROSS	92A	62.7	16.9	45.6	23.5	39.8	41.7	37.2	100	91	118	109	-1	1.0	38
AGRIPRO	AP 3727	59.7	---	---	---	---	---	---	95	---	---	---	-1	1.0	37
MSG	G3996(OHLDE 3996)	64.9	18.9	---	---	41.9	---	---	104	102	---	---	-1	1.7	36
WILLCROSS	92B	67.6	19.1	36.2	---	43.3	40.9	---	108	103	94	---	-1	1.0	37
PATRIOT	7372N	55.4	---	---	---	---	---	---	89	---	---	---	-1	1.0	32
FONTANELLE	6104	60.9	19.1	37.1	21.8	40.0	39.0	34.7	97	103	96	101	-1	1.0	36
PATRIOT	390	62.0	---	---	---	---	---	---	99	---	---	---	-1	1.0	34

(CONTINUED)

TABLE 4. FRANKLIN COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1993-96.

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT	LODGING SCORE	HT IN
		1996	1995	1994	1993	2-Yr	3-Yr	4-Yr	1996	1995	1994	1993			
MATURITY GROUPS II-III															
	IA2007BC	34.6	31.2	---	---	32.9	---	---	66	87	---	---	-18	1.0	26
	IA2022	46.7	---	---	---	---	---	---	89	---	---	---	-16	1.0	32
NORTHRUP KING	S30-06	43.5	35.6	43.8	32.9	39.5	41.0	39.0	83	99	98	102	-14	1.0	28
HOEGEMEYER	365	45.5	35.5	49.2	33.1	40.5	43.4	40.8	87	98	110	102	-11	1.0	30
	RESNIK	46.7	33.5	42.7	30.8	40.1	40.9	38.4	89	93	95	95	-10	1.0	30
	KS3494	47.3	36.4	43.8	31.6	42.4	42.8	40.0	90	101	98	98	-9	1.0	31
STINE	3660	54.6	39.8	---	---	47.2	---	---	104	110	---	---	-7	1.0	29
	SHERMAN	56.3	37.4	48.4	35.5	46.9	47.4	44.4	108	104	108	110	-7	1.3	32
	PROBST	51.2	36.2	45.5	---	43.7	44.3	---	98	100	101	---	-7	1.0	30
STAR	EXPRESS II	54.3	39.5	---	---	46.9	---	---	104	110	---	---	-7	1.0	28
HOEGEMEYER	380	52.0	35.2	47.8	33.3	43.6	45.0	42.1	99	98	107	103	-6	1.2	32
PIONEER	9391	47.4	35.3	---	32.2	41.4	---	---	90	98	---	100	-6	1.3	36
DYNA-GRO	3368	56.3	35.9	45.9	---	46.1	46.0	---	108	100	102	---	-6	1.0	32
WILLCROSS	9536	56.0	---	---	---	---	---	---	107	---	---	---	-6	1.0	31
PIONEER	9395	52.4	---	---	---	---	---	---	100	---	---	---	-6	1.0	31
WILLCROSS	9435A	56.8	36.4	---	---	46.6	---	---	109	101	---	---	-6	1.0	28
	EDISON	49.6	33.6	45.4	34.0	41.6	42.9	40.7	95	93	101	105	-6	1.0	29
DEKALB	CX368	57.0	36.2	---	---	46.6	---	---	109	100	---	---	-6	1.0	30
STAR	QUEST	57.8	35.9	---	---	46.9	---	---	110	100	---	---	-5	1.0	29
WILLCROSS	9635	58.5	---	---	---	---	---	---	112	---	---	---	-5	1.0	28
DYNA-GRO	3395 (UAPX-157)	55.0	39.7	---	---	47.4	---	---	105	110	---	---	-4	1.0	32
	MACON	58.7	35.9	---	---	47.3	---	---	112	100	---	---	-4	1.0	32
TAYLOR	399	52.8	41.0	48.7	32.6	46.9	47.5	43.8	101	114	109	101	-3	1.0	33
WILLCROSS	9540B	48.4	---	---	---	---	---	---	92	---	---	---	-3	1.0	29
STAR	GALAXY	52.0	36.2	48.3	33.5	44.1	45.5	42.5	99	100	108	104	-3	1.0	32
MSG	G3996(OHLDE 3996)	55.2	38.4	---	---	46.8	---	---	105	107	---	---	-3	1.0	33
DEKALB	CX399	53.8	35.9	---	---	44.8	---	---	103	100	---	---	-3	1.2	33
GOLDEN HARVEST	H-1388	54.3	37.6	---	34.5	46.0	---	---	104	104	---	107	-3	1.2	33
NC+	3A96	48.4	---	---	---	---	---	---	92	---	---	---	-3	1.0	32
TERRA	TS393	49.7	38.5	---	---	44.1	---	---	95	107	---	---	-2	1.0	31
WILLCROSS	92B	53.3	38.2	47.8	---	45.7	46.4	---	102	106	107	---	-2	1.0	34
LEWIS	390	53.3	---	---	---	---	---	---	102	---	---	---	-2	1.0	31
STINE	3870	57.5	---	---	---	---	---	---	110	---	---	---	-2	1.0	29
TERRA	TS364	54.7	---	---	---	---	---	---	105	---	---	---	-2	1.0	28
MIDLAND	8393	49.3	38.1	46.1	32.8	43.7	44.5	41.6	94	106	103	101	-1	1.3	36
WILLCROSS	92A	58.1	38.8	44.2	33.1	48.4	47.0	43.5	111	108	99	102	-1	1.0	34
WILLCROSS	9540A	57.3	---	---	---	---	---	---	109	---	---	---	0	1.0	29
	WILLIAMS 82	48.0	30.1	44.4	32.4	39.1	40.8	38.7	92	84	99	100	0	1.2	39
WILLCROSS	9639	51.7	---	---	---	---	---	---	99	---	---	---	0	1.0	28
ASGROW	A3834	57.9	37.9	---	---	47.9	---	---	111	105	---	---	1	1.0	28
TEST AVERAGES		52.4	36.1	44.9	32.4										
LSD (.1:'94-96, .05:'93)		4.4	3.3	2.7	2.7										

(CONTINUED)

TABLE 4. FRANKLIN COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1993-96. (CONTINUED)

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT	LODGING SCORE	HT IN
		1996	1995	1994	1993	2-Yr	3-Yr	4-Yr	1996	1995	1994	1993			
MATURITY GROUP IV															
TERRA	TS402	52.2	33.2	49.5	30.0	42.7	44.9	41.2	104	100	108	105	-4	1.0	30
NC+	4A10	54.1	---	49.4	30.0	---	---	---	107	---	108	105	-2	1.0	31
MEDALLION	M 3909	53.1	---	---	---	---	---	---	106	---	---	---	-2	1.0	31
WILLCROSS	9640	52.5	---	---	---	---	---	---	104	---	---	---	-2	1.0	32
MIDLAND	8410	57.4	34.3	48.3	28.4	45.9	46.7	42.1	114	104	105	99	-1	1.0	31
TERRA	TS415 (E415)	54.3	39.6	---	---	46.9	---	---	108	120	---	---	-1	1.0	31
HOEGEMEYER	401	51.1	36.5	47.5	29.3	43.8	45.0	41.1	102	110	104	102	-1	1.0	32
MEDALLION	M 4007	49.9	---	---	---	---	---	---	99	---	---	---	0	1.0	28
	FLYER	50.2	33.7	43.8	26.5	41.9	42.6	38.5	100	102	96	93	9/27	1.0	33
GOLDEN HARVEST	H-1454 (X 454)	48.9	---	---	---	---	---	---	97	---	---	---	0	1.0	37
MYCOGEN	429	48.2	---	---	---	---	---	---	96	---	---	---	0	1.0	35
PIONEER	9412	48.0	35.7	---	---	41.9	---	---	95	108	---	---	1	1.0	27
MIDLAND	8413	50.9	35.8	49.1	30.0	43.3	45.3	41.4	101	108	107	105	1	1.0	31
TERRA	TS4292 (E4292)	49.0	---	43.7	27.9	---	---	---	97	---	95	98	1	1.0	31
HOEGEMEYER	435	60.4	33.0	---	---	46.7	---	---	120	100	---	---	1	1.0	34
ICI	D454	52.8	---	---	---	---	---	---	105	---	---	---	1	1.0	35
NORTHRUP KING	S42-60	55.6	---	48.4	---	---	---	---	110	---	106	---	1	1.0	33
	STRESSLAND	49.2	31.8	41.6	---	40.5	40.9	---	98	96	91	---	1	1.3	38
MIDLAND	XP411	46.9	---	---	---	---	---	---	93	---	---	---	2	1.0	31
MIDLAND	8431	50.9	---	---	---	---	---	---	101	---	---	---	2	1.0	36
ASGROW	A4341	53.0	33.5	48.5	---	43.2	45.0	---	105	101	106	---	3	1.0	30
DELANGE	DS 410	52.8	33.4	---	---	43.1	---	---	105	101	---	---	3	1.0	34
PATRIOT	457N	48.4	---	---	---	---	---	---	96	---	---	---	3	1.0	33
DEKALB	CX445	53.2	---	46.1	---	---	---	---	106	---	101	---	3	1.3	38
PATRIOT	7430N	40.7	---	---	---	---	---	---	81	---	---	---	3	1.2	38
NECO	7446	48.6	---	---	---	---	---	---	97	---	---	---	4	1.0	33
MERSCHMAN	NASHVILLE	48.5	36.5	---	---	42.5	---	---	96	110	---	---	4	1.0	39
WILLCROSS	9447B	56.4	30.2	49.7	---	43.3	45.4	---	112	91	109	---	4	1.2	38
MYCOGEN	470	52.9	31.9	46.7	---	42.4	43.8	---	105	96	102	---	4	1.0	36
NORTHRUP KING	S46-44	45.3	31.7	---	---	38.5	---	---	90	96	---	---	4	1.0	34
	K1231	53.8	31.6	47.2	30.5	42.7	44.2	40.8	107	96	103	107	4	1.0	31
PATRIOT	7459N	45.6	---	---	---	---	---	---	91	---	---	---	4	1.0	43
DELANGE	DS 485	51.0	33.8	---	---	42.4	---	---	101	102	---	---	5	1.0	38
STINE	4650	51.9	37.8	---	---	44.9	---	---	103	114	---	---	5	1.0	35
NC+	4A47	53.3	---	---	---	---	---	---	106	---	---	---	5	1.0	35
WILLCROSS	9644N	44.7	---	---	---	---	---	---	89	---	---	---	5	1.3	43
MSG	O 4440 (OHLDE)	55.3	33.2	49.9	33.2	44.2	46.1	42.9	110	100	109	116	5	1.0	36
TAYLOR	454	58.8	---	---	---	---	---	---	117	---	---	---	5	1.0	35
MIDLAND	8486 (EXP 481)	48.5	34.6	---	---	41.6	---	---	96	105	---	---	5	1.2	37
	K1235	48.2	35.0	49.8	33.2	41.6	44.3	41.6	96	106	109	116	5	1.0	32
WILLCROSS	9447A	54.0	32.1	45.0	---	43.1	43.7	---	107	97	98	---	5	1.0	36
TERRA	TS4792 (E4792)	44.6	---	---	---	---	---	---	89	---	---	---	5	1.3	43

(CONTINUED)

TABLE 4. FRANKLIN COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1993-96. (CONTINUED)

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT	LODGING SCORE	HT IN
		1996	1995	1994	1993	2-Yr	3-Yr	4-Yr	1996	1995	1994	1993			
MERSCHMAN	ATLANTA III	54.9	36.9	51.2	30.4	45.9	47.7	43.3	109	112	112	106	6	1.0	37
GOLDEN HARVEST	H-1485	47.6	32.9	---	---	40.2	---	---	94	99	---	---	5	1.0	37
	KS4694	45.4	35.5	49.8	29.6	40.5	43.6	40.1	90	107	109	103	5	1.0	33
TERRA	TS474 (E474)	48.9	36.3	---	---	42.6	---	---	97	110	---	---	7	1.0	38
STINE	4680	56.4	36.6	48.6	29.5	46.5	47.2	42.8	112	111	106	103	8	1.0	38
	KS4895	41.3	33.4	---	---	37.3	---	---	82	101	---	---	8	1.0	37
TERRA	TS5504	37.0	---	---	---	---	---	---	73	---	---	---	8	1.0	27
	CRAWFORD	41.1	24.7	39.4	25.3	32.9	35.1	32.6	82	75	86	88	8	1.5	45
TEST AVERAGES		50.4	33.1	45.8	28.6										
LSD (.1:'94-96, .05:'93)		5.7	3.3	3.0	2.7										
LSD (.1 BETWEEN MATURITY GROUPS)		5.6	3.5	3.3											

TABLE 5. LABETTE COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1993-96.

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT	LODGING SCORE	HT IN
		1996	1995	1994	1993	2-Yr	3-Yr	4-Yr	1996	1995	1994	1993			
MATURITY GROUPS II-III															
	IA2022	43.8	---	---	---	---	---	---	92	---	---	---	-12	1.0	28
	IA2007BC	38.3	20.0	---	---	29.1	---	---	80	124	---	---	-11	1.0	28
	RESNIK	45.5	16.6	44.4	23.3	31.1	35.5	32.5	96	103	97	79	-9	1.0	26
	SHERMAN	49.3	12.8	51.1	31.5	31.0	37.7	36.2	104	79	112	106	-7	1.0	27
	PROBST	48.2	15.6	42.5	---	31.9	35.4	---	101	96	93	---	-6	1.0	26
	KS3494	49.6	15.2	46.6	30.4	32.4	37.1	35.4	104	94	102	102	-5	1.0	25
	EDISON	45.2	12.5	46.3	31.2	28.8	34.6	33.8	95	77	101	105	-5	1.0	25
WILLCROSS	9540B	47.5	---	---	---	---	---	---	100	---	---	---	-3	1.0	25
WILLCROSS	92B	49.9	18.1	48.1	---	34.0	38.7	---	105	112	105	---	-2	1.0	29
TERRA	TS364	52.9	---	---	---	---	---	---	111	---	---	---	-2	1.0	26
	MACON	50.7	17.3	---	---	34.0	---	---	106	107	---	---	-1	1.0	27
WILLCROSS	9540A	46.4	---	---	---	---	---	---	98	---	---	---	-1	1.0	26
AGRIPRO	AP 3727	46.4	---	---	---	---	---	---	98	---	---	---	-1	1.0	28
	WILLIAMS 82	45.5	16.4	41.3	33.3	30.9	34.4	34.1	96	102	90	112	0	1.3	33
	3395 (UAPX-157)	53.4	---	---	---	---	---	---	112	---	---	---	0	1.0	29
WILLCROSS	92A	50.6	19.9	46.1	34.6	35.3	38.9	37.8	106	123	101	117	0	1.0	27
TERRA	TS393	45.4	---	---	---	---	---	---	96	---	---	---	1	1.0	23
TEST AVERAGES		47.6	16.1	45.8	29.7										
LSD (.1:'94-96, .05:'93)		4.0	3.2	3.8	7.2										

(CONTINUED)

TABLE 5. LABETTE COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1993-96. (CONTINUED)

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT	LODGING SCORE	HT IN
		1996	1995	1994	1993	2-Yr	3-Yr	4-Yr	1996	1995	1994	1993			
MATURITY GROUP IV															
MEDALLION	M 4007	43.4	---	---	---	---	---	---	101	---	---	---	-3	1.0	25
AGRIPRO	AP 4100	44.3	---	---	---	---	---	---	103	---	---	---	-2	1.0	27
	STRESSLAND	44.4	20.0	46.6	---	32.2	37.0	---	103	107	96	---	-2	1.3	31
TERRA	TS402	44.6	17.9	---	---	31.2	---	---	103	96	---	---	-1	1.0	27
	K1231	38.9	18.1	50.5	34.4	28.5	35.8	35.5	90	97	104	98	-1	1.0	26
GOLDEN HARVEST	H-1454 (X 454)	43.4	21.6	---	---	32.5	---	---	101	115	---	---	-1	1.0	33
TERRA	TS4292 (E4292)	43.7	---	---	34.3	---	---	---	101	---	---	98	0	1.0	25
TERRA	TS415 (E415)	50.8	---	---	---	---	---	---	118	---	---	---	0	1.0	29
MIDLAND	8410	43.3	16.3	50.1	40.1	29.8	36.6	37.5	100	87	103	114	0	1.0	27
	FLYER	43.2	17.4	45.6	34.8	30.3	35.4	35.2	100	93	94	99	9/23	1.0	30
NORTHRUP KING	S42-60	44.0	---	47.8	---	---	---	---	102	---	99	---	0	1.3	31
DYNA-GRO	3444N	43.7	---	---	---	---	---	---	101	---	---	---	0	1.0	28
DELANGE	DS 410	37.4	---	---	---	---	---	---	87	---	---	---	0	1.0	28
WILLCROSS	9640	46.0	---	---	---	---	---	---	107	---	---	---	0	1.7	30
MIDLAND	8413	42.4	18.3	53.2	37.1	30.3	37.9	37.7	98	98	110	106	1	1.0	27
DEKALB	CX445	45.9	19.4	48.2	---	32.7	37.8	---	106	104	100	---	1	1.3	34
DEKALB	CX494	42.9	---	---	---	---	---	---	99	---	---	---	1	1.3	31
NORTHRUP KING	S46-44	40.0	22.9	43.0	32.3	31.4	35.3	34.6	93	122	89	92	1	1.0	31
PIONEER	9481	40.3	---	---	---	---	---	---	93	---	---	---	2	1.7	36
MIDLAND	8475	41.1	21.3	47.4	---	31.2	36.6	---	95	114	98	---	2	1.0	30
TERRA	TS4792 (E4792)	41.8	---	---	32.6	---	---	---	97	---	---	93	2	1.3	41
GOLDEN HARVEST	H-1485	42.6	16.6	---	---	29.6	---	---	99	89	---	---	2	1.3	33
ICI	D478	45.1	21.0	50.2	---	33.1	38.8	---	104	112	104	---	2	1.3	34
MIDLAND	8487NB (EXP 48N)	40.2	25.5	---	---	32.9	---	---	93	136	---	---	3	1.0	31
ICI	D485	43.7	---	---	---	---	---	---	101	---	---	---	3	1.3	33
MIDLAND	8486 (EXP 481)	44.5	19.9	---	---	32.2	---	---	103	106	---	---	3	1.0	34
DELANGE	DS 485	44.2	18.8	---	---	31.5	---	---	102	100	---	---	3	1.0	34
WILLCROSS	9447A	45.7	17.9	54.7	---	31.8	39.4	---	106	96	113	---	3	1.3	33
	K1235	46.7	25.3	49.1	38.0	36.0	40.4	39.8	108	135	102	108	3	1.0	26
WILLCROSS	9447B	45.7	19.3	55.2	---	32.5	40.0	---	106	103	114	---	4	1.3	33
MEDALLION	M 4805	44.3	---	---	---	---	---	---	103	---	---	---	4	1.0	35
NC+	4A47	45.6	---	---	---	---	---	---	106	---	---	---	4	1.7	32
	KS4694	45.6	17.2	49.9	35.7	31.4	37.6	37.1	106	92	103	102	4	1.0	30
MIDLAND	8431	44.4	---	---	---	---	---	---	103	---	---	---	5	1.0	30
	CRAWFORD	40.2	16.1	42.3	32.4	28.1	32.8	32.7	93	86	87	92	5	2.0	37
PATRIOT	482N	37.8	---	---	---	---	---	---	88	---	---	---	5	1.3	35
TERRA	TS474 (E474)	45.0	15.7	---	---	30.3	---	---	104	84	---	---	7	2.3	33
WILLCROSS	9650N	37.5	---	---	---	---	---	---	87	---	---	---	7	2.0	31
TEST AVERAGES		43.2	18.7	48.4	35.1										
LSD (.1:'94-96, .05:'93)		3.9	3.4	3.7	3.5										

(CONTINUED)

TABLE 5. LABETTE COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1993-96. (CONTINUED)

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT	LODGING SCORE	HT IN
		1996	1995	1994	1993	2-Yr	3-Yr	4-Yr	1996	1995	1994	1993			
MATURITY GROUPS IVS-V															
	DELLOY 4710	42.1	16.1	44.8	33.0	29.1	34.3	34.0	101	74	108	91	6	1.7	35
DYNA-GRO	3502N (3502)	38.7	22.8	---	---	30.8	---	---	93	105	---	---	7	1.7	28
TERRA	TS5504	44.2	---	---	---	---	---	---	106	---	---	---	7	1.7	30
PATRIOT	555N	41.3	---	---	---	---	---	---	99	---	---	---	7	1.3	30
GOLDEN HARVEST	H-1500 (X 500)	40.4	22.6	---	---	31.5	---	---	97	104	---	---	7	2.0	29
	KS4895	43.2	22.4	47.2	38.8	32.8	37.6	37.9	103	120	114	107	7	1.0	37
	K1218	46.9	25.5	43.9	41.4	36.2	38.8	39.4	112	117	106	114	8	1.0	25
	STAFFORD	41.9	23.4	43.1	36.0	32.6	36.1	36.1	100	107	104	99	8	1.7	30
	K1330	44.1	---	---	---	---	---	---	106	---	---	---	9	1.7	32
	K1331	42.1	---	---	---	---	---	---	101	---	---	---	10	1.0	29
PIONEER	9521	41.2	27.1	42.0	38.9	34.2	36.8	37.3	99	125	101	107	10	1.7	31
	K1305	42.4	---	---	---	---	---	---	102	---	---	---	11	1.3	28
	HOLLADAY	43.6	23.8	45.0	42.8	33.7	37.5	38.8	105	109	108	118	11	1.0	28
NORTHROP KING	S52-25	39.8	22.8	34.6	---	31.3	32.4	---	95	105	83	---	11	1.3	30
	KS5292	42.3	20.1	43.6	36.5	31.2	35.3	35.6	101	92	105	100	11	2.0	32
	MANOKIN	39.2	22.2	45.0	36.8	30.7	35.5	35.8	94	102	108	101	11	2.3	33
	ESSEX	38.3	21.1	43.2	38.0	29.7	34.2	35.1	92	97	104	104	11	1.0	28
	DELLOY 4900	39.5	25.0	39.3	33.3	32.2	34.6	34.3	95	115	95	91	12	2.3	37
PATRIOT	7520N	39.5	---	---	---	---	---	---	95	---	---	---	13	2.3	32
	K1335	42.7	---	---	---	---	---	---	102	---	---	---	13	1.0	26
	K1309	39.8	---	---	---	---	---	---	95	---	---	---	13	1.0	27
NC+	5A44	39.8	22.9	---	---	31.3	---	---	95	105	---	---	13	1.7	33
PATRIOT	530N	42.9	---	---	---	---	---	---	103	---	---	---	13	3.0	33
	K1307	43.9	---	---	---	---	---	---	105	---	---	---	13	2.3	31
	K1333	43.8	---	---	---	---	---	---	105	---	---	---	14	1.3	27
	K1308	43.4	---	---	---	---	---	---	104	---	---	---	14	1.0	32
	K1276	45.8	22.1	---	---	33.9	---	---	110	101	---	---	15	1.0	28
	DELLOY 5500	40.9	---	---	---	---	---	---	98	---	---	---	15	1.0	27
	HUTCHESON	42.9	20.6	42.6	38.4	31.7	35.3	36.1	103	94	103	105	15	1.0	26
	HARTWIG	35.9	21.1	31.9	32.5	28.5	29.6	30.4	86	97	77	89	17	2.7	35
	K1277	45.2	18.4	---	---	31.8	---	---	108	85	---	---	18	1.0	35
NORTHROP KING	S57-11	41.8	---	---	---	---	---	---	100	---	---	---	18	1.7	35
	FORREST	38.1	21.5	37.3	33.9	29.8	32.3	32.7	91	99	90	93	18	2.7	36
TEST AVERAGES		41.7	21.8	41.5	36.4										
LSD (.15:'96, .1:'94-95, .05:'93)		3.8	3.8	5.1	5.0										
LSD (.1 BETWEEN MATURITY GROUPS)		4.1	3.5	4.5											

TABLE 6. REPUBLIC COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1993-96.

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT	LODGING SCORE	HT IN
		1996	1995	1994	1993	2-Yr	3-Yr	4-Yr	1996	1995	1994	1993			
MATURITY GROUPS II-III															
MIDLAND	8282	64.8	---	---	---	---	---	---	100	---	---	---	-5	1.0	31
	IA2022	73.9	---	---	---	---	---	---	115	---	---	---	-5	1.0	28
	IA2007BC	62.5	38.4	---	---	50.4	---	---	97	85	---	---	-5	1.0	29
MIDLAND	XP283	61.0	---	---	---	---	---	---	95	---	---	---	-4	1.0	30
MIDLAND	8321	61.4	---	---	---	---	---	---	95	---	---	---	-3	1.0	31
MIDLAND	8325	61.0	47.3	---	---	54.1	---	---	95	105	---	---	-2	1.0	27
FONTANELLE	3376	54.3	---	---	---	---	---	---	84	---	---	---	-2	1.0	26
FONTANELLE	EXP9474	74.5	---	---	---	---	---	---	115	---	---	---	-2	1.0	30
NORTHROP KING	S30-06	63.7	45.5	---	56.5	54.6	---	---	99	101	---	102	-2	1.0	25
	G 3626	67.2	---	---	---	---	---	---	104	---	---	---	-2	1.0	30
NC+	3A96	65.4	---	---	---	---	---	---	101	---	---	---	-2	1.0	35
	PROBST	67.3	44.3	32.7	---	55.8	48.1	---	104	99	103	---	-2	1.0	32
DYNA-GRO	3368	62.1	47.6	30.7	---	54.9	46.8	---	96	106	97	---	-2	1.0	29
WILLCROSS	9531	69.7	---	---	---	---	---	---	108	---	---	---	-1	1.0	28
WILLCROSS	9540A	63.6	---	---	---	---	---	---	99	---	---	---	-1	1.0	30
MIDLAND	8333STS	59.5	---	---	---	---	---	---	92	---	---	---	-1	1.0	31
STAR	QUEST	69.4	43.9	---	---	56.7	---	---	108	98	---	---	-1	1.0	30
STAR	GALAXY	64.4	39.3	33.6	58.2	51.9	45.8	48.9	100	88	106	105	-1	1.0	30
	RESNIK	66.6	48.7	30.0	54.6	57.6	48.4	50.0	103	108	95	98	-1	1.0	28
WILLCROSS	92B	61.5	40.1	---	---	50.8	---	---	95	89	---	---	-1	1.0	28
	EDISON	58.3	41.4	29.7	56.0	49.9	43.1	46.4	90	92	94	101	-1	1.0	28
PIONEER	9333	64.2	---	---	---	---	---	---	99	---	---	---	0	1.0	26
MIDLAND	8356	60.8	45.5	---	---	53.2	---	---	94	101	---	---	0	1.0	29
WILLCROSS	92A	59.1	48.2	---	---	53.6	---	---	92	107	---	---	0	1.0	35
PIONEER	9321	67.0	---	---	---	---	---	---	104	---	---	---	1	1.0	28
DYNA-GRO	3395 (UAPX-157)	58.7	---	---	---	---	---	---	91	---	---	---	1	1.0	34
WILLCROSS	9435B	60.8	46.1	---	---	53.5	---	---	94	103	---	---	1	1.0	34
	KS3494	58.3	42.8	30.5	60.5	50.5	43.9	48.0	90	95	96	109	1	1.0	30
	MACON	70.4	42.9	---	---	56.7	---	---	109	96	---	---	1	1.0	34
STAR	EXPRESS II	64.9	53.0	---	---	58.9	---	---	101	118	---	---	1	1.0	30
	SHERMAN	63.5	44.5	30.5	---	54.0	46.2	---	98	99	97	---	2	1.0	31
WILLCROSS	9435A	60.6	40.4	---	---	50.5	---	---	94	90	---	---	2	1.0	26
STINE	3480	65.0	---	---	---	---	---	---	101	---	---	---	2	1.0	30
STINE	3660	67.5	---	---	---	---	---	---	105	---	---	---	2	1.0	32
	DUNBAR	61.8	---	---	---	---	---	---	96	---	---	---	2	1.0	29
STAR	CELEBRITY	71.2	40.4	37.4	56.5	55.8	49.7	51.4	110	90	118	102	2	1.0	25
NC+	3A75	68.9	46.4	---	---	57.7	---	---	107	103	---	---	2	1.0	34
WILLCROSS	9536	68.9	---	---	---	---	---	---	107	---	---	---	2	1.0	31
MIDLAND	8355	67.0	49.9	31.5	---	58.5	49.5	---	104	111	100	---	2	1.0	28
WILLCROSS	9635	68.5	---	---	---	---	---	---	106	---	---	---	2	1.0	30
DEKALB	CX399	65.9	45.4	---	---	55.6	---	---	102	101	---	---	3	1.0	32

(CONTINUED)

TABLE 6. REPUBLIC COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1993-96. (CONTINUED)

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT	LODGING SCORE	HT IN
		1996	1995	1994	1993	2-Yr	3-Yr	4-Yr	1996	1995	1994	1993			
STAR	BLAZER	68.8	---	---	---	---	---	---	107	---	---	---	3	1.0	35
	WILLIAMS 82	51.7	41.6	30.6	50.6	46.6	41.3	43.6	80	93	97	91	3	1.0	38
WILLCROSS	9639	68.6	---	---	---	---	---	---	106	---	---	---	3	1.0	29
MSG	G3996(OHLDE 3996)	69.1	45.4	---	---	57.2	---	---	107	101	---	---	3	1.0	35
STAR	BOUNTY STS	64.2	41.5	---	---	52.9	---	---	100	92	---	---	5	1.0	38
TEST AVERAGES		64.5	44.9	31.6	55.6										
LSD (.1:'94-96, .05:'93)		6.1	6.2	2.0	3.8										
MATURITY GROUP IV															
	STRESSLAND	57.6	34.1	27.9	---	45.8	39.9	---	95	83	97	---	-3	1.0	37
	HAMILTON	62.2	---	---	---	---	---	---	102	---	---	---	-1	1.0	24
MIDLAND	8401CN	61.2	---	---	---	---	---	---	101	---	---	---	-1	1.0	31
	FLYER	61.1	43.7	28.8	56.0	52.4	44.6	47.4	100	107	100	102	9/29	1.0	34
NC+	4A10	61.5	---	---	---	---	---	---	101	---	---	---	1	1.0	31
WILLCROSS	9640	69.2	---	---	---	---	---	---	114	---	---	---	2	1.0	35
	K1231	64.1	42.2	29.4	53.4	53.2	45.2	47.3	105	103	102	98	2	1.0	33
MIDLAND	XP411	57.5	---	---	---	---	---	---	94	---	---	---	2	1.0	30
MYCOGEN	470	60.2	42.3	---	---	51.2	---	---	99	103	---	---	4	1.0	34
	K1235	64.1	46.2	26.2	54.4	55.1	45.5	47.7	105	113	91	99	6	1.0	35
	KS4694	60.4	40.8	29.0	58.3	50.6	43.4	47.1	99	100	101	106	6	1.0	38
MIDLAND	8431	58.5	---	---	---	---	---	---	96	---	---	---	6	1.0	38
NECO	7446	52.6	---	---	---	---	---	---	86	---	---	---	6	1.0	34
TEST AVERAGES		60.9	40.9	28.9	54.8										
LSD (.1:'94-96, .05:'93)		NS	NS	3.3	5.3										
LSD (.1 BETWEEN MATURITY GROUPS)		8.2	6.5	2.7											

TABLE 7. REPUBLIC COUNTY SOYBEAN PERFORMANCE (IRRIGATED), 1993-96.

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT	LODGING SCORE	HT IN
		1996	1995	1994	1993	2-Yr	3-Yr	4-Yr	1996	1995	1994	1993			
MATURITY GROUPS II-III															
MIDLAND	XP283	59.6	---	---	---	---	---	---	97	---	---	---	-2	1.0	34
ASGROW	A3834	60.0	60.1	---	---	60.0	---	---	98	108	---	---	-1	1.0	30
FONTANELLE	3376	60.8	---	---	---	---	---	---	99	---	---	---	-1	1.0	25
	MACON	61.7	62.7	---	---	62.2	---	---	101	112	---	---	-1	1.0	30
PIONEER	9343	66.1	---	---	---	---	---	---	108	---	---	---	0	1.0	29
	IA2022	59.1	---	---	---	---	---	---	96	---	---	---	0	1.0	30
	EDISON	58.9	56.0	71.4	53.3	57.4	62.1	59.9	96	100	101	90	0	1.0	28
HOEGEMEYER	365	60.7	56.1	67.0	63.0	58.4	61.3	61.7	99	100	95	106	0	1.0	30
STINE	3660	63.6	---	---	---	---	---	---	104	---	---	---	0	1.0	27
MSG	G 3555	62.2	---	---	---	---	---	---	101	---	---	---	0	1.0	33
DEKALB	CX377	63.2	59.1	79.7	---	61.2	67.4	---	103	106	112	---	0	1.0	35
PIONEER	9321	61.5	62.3	---	---	61.9	---	---	100	111	---	---	0	1.0	30
MIDLAND	8282	61.5	---	---	---	---	---	---	100	---	---	---	1	1.0	30
STAR	QUEST	59.6	60.0	---	---	59.8	---	---	97	107	---	---	1	1.0	25
ICI	D371	61.1	52.1	71.3	59.5	56.6	61.5	61.0	100	93	101	101	1	1.0	31
WILLCROSS	9536	61.8	---	---	---	---	---	---	101	---	---	---	1	1.0	31
NORTHROP KING	S30-06	58.9	49.9	---	---	54.4	---	---	96	89	---	---	1	1.0	28
HOEGEMEYER	362	57.8	---	---	---	---	---	---	94	---	---	---	1	1.0	35
WILLCROSS	9635	60.8	---	---	---	---	---	---	99	---	---	---	1	1.0	30
WILLCROSS	9540A	59.2	---	---	---	---	---	---	96	---	---	---	2	1.0	32
STAR	GALAXY	69.1	58.0	79.5	56.8	63.6	68.9	65.9	113	104	112	96	2	1.0	36
	IA2007BC	59.8	47.6	---	---	53.7	---	---	97	85	---	---	2	1.0	30
FONTANELLE	EXP9474	63.7	---	---	---	---	---	---	104	---	---	---	2	1.0	26
MIDLAND	8355	62.0	57.7	80.2	---	59.8	66.6	---	101	103	113	---	2	1.0	31
HOEGEMEYER	312	59.9	---	---	---	---	---	---	98	---	---	---	2	1.0	26
MIDLAND	8371	61.4	---	---	---	---	---	---	100	---	---	---	2	1.0	34
MIDLAND	8333STS	57.7	---	---	---	---	---	---	94	---	---	---	2	1.0	37
MIDLAND	8386STS (EXP38STS)	62.2	---	---	---	---	---	---	101	---	---	---	3	1.0	35
	WILLIAMS 82	56.3	50.8	65.5	50.1	53.5	57.5	55.7	92	91	92	85	3	1.0	39
	DUNBAR	63.6	---	---	---	---	---	---	104	---	---	---	3	1.0	32
WILLCROSS	9435B	60.0	---	---	---	---	---	---	98	---	---	---	3	1.0	29
WILLCROSS	9639	61.5	---	---	---	---	---	---	100	---	---	---	3	1.0	28
MIDLAND	8321	65.3	---	---	---	---	---	---	106	---	---	---	3	1.0	24
	PROBST	64.0	57.9	72.7	---	60.9	64.9	---	104	104	103	---	4	1.0	36
ASGROW	A3244	63.5	---	---	---	---	---	---	104	---	---	---	4	1.0	29
WILLCROSS	9435A	58.0	---	---	---	---	---	---	95	---	---	---	4	1.0	27
MYCOGEN	395	61.3	57.5	---	---	59.4	---	---	100	103	---	---	4	1.0	35
MIDLAND	8356	64.1	52.1	---	---	58.1	---	---	105	93	---	---	4	1.0	29
MIDLAND	8325	62.7	60.4	---	---	61.6	---	---	102	108	---	---	4	1.0	28
	SHERMAN	58.6	61.2	72.7	58.3	59.9	64.2	62.7	96	109	103	98	4	1.0	30
WILLCROSS	92B	61.7	---	---	---	---	---	---	101	---	---	---	4	1.0	33
DEKALB	CX368	61.4	---	---	---	---	---	---	100	---	---	---	4	1.0	31
WILLCROSS	9531	62.6	---	---	---	---	---	---	102	---	---	---	4	1.0	29

(CONTINUED)

TABLE 7. REPUBLIC COUNTY SOYBEAN PERFORMANCE (IRRIGATED), 1993-96. (CONTINUED)

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT	LODGING SCORE	HT IN
		1996	1995	1994	1993	2-Yr	3-Yr	4-Yr	1996	1995	1994	1993			
WILLCROSS	92A	57.8	---	---	---	---	---	---	94	---	---	---	4	1.0	33
STAR	EXPRESS II	63.4	58.5	---	---	61.0	---	---	103	105	---	---	5	1.0	29
MSG	G3996(OHLDE 3996)	63.4	61.0	---	---	62.2	---	---	103	109	---	---	5	1.0	33
HOEGEMEYER	380	63.2	51.7	75.5	56.9	57.4	63.4	61.8	103	92	106	96	5	1.0	33
	KS3494	62.8	60.8	77.7	64.0	61.8	67.1	66.3	102	109	110	108	5	1.0	36
	RESNIK	56.8	53.3	65.1	56.1	55.1	58.4	57.8	93	95	92	95	5	1.0	32
TEST AVERAGES		61.3	55.9	70.9	59.2										
LSD (.1:'94-96, .05:'93)		3.3	4.9	8.5	3.7										
Maturity Group IV															
	FLYER	63.6	52.9	66.9	51.1	58.2	61.1	58.6	100	97	94	94	9/26	1.0	36
	HAMILTON	63.4	---	---	---	---	---	---	100	---	---	---	0	1.0	34
ICI	D454	63.9	---	---	---	---	---	---	101	---	---	---	1	1.0	37
	STRESSLAND	61.1	47.8	74.1	---	54.4	61.0	---	96	88	104	---	3	1.0	38
MYCOGEN	429	61.2	---	---	---	---	---	---	96	---	---	---	3	1.0	33
DEKALB	CX411	69.6	62.2	80.8	---	65.9	70.8	---	110	114	114	---	4	1.0	31
NECO	7446	61.7	---	---	---	---	---	---	97	---	---	---	4	1.0	37
	K1231	66.7	59.7	76.1	51.0	63.2	67.5	63.4	105	110	107	94	4	1.0	36
NORTHROP KING	S42-60	63.1	54.9	77.6	---	59.0	65.2	---	99	101	109	---	4	1.0	37
WILLCROSS	9640	63.4	---	---	---	---	---	---	100	---	---	---	5	1.0	38
MIDLAND	8410	63.6	58.4	76.9	58.6	61.0	66.3	64.4	100	107	108	108	5	1.0	36
MIDLAND	8431	61.2	---	---	---	---	---	---	96	---	---	---	6	1.0	35
	K1235	63.0	50.2	61.2	55.4	56.6	58.1	57.5	99	92	86	102	6	1.0	37
	KS4694	63.7	48.1	51.1	54.3	55.9	54.3	54.3	100	88	72	100	7	1.0	38
TEST AVERAGES		63.5	54.5	71.2	54.5										
LSD (.1:'94-96, .05:'93)		3.0	5.5	8.2	4.9										
LSD (.1 BETWEEN MATURITY GROUPS)		3.6	5.5	10.4											

TABLE 8. HARVEY COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1993-96.

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT	LODGING SCORE	HT IN
		1996	1995	1994	1993	2-Yr	3-Yr	4-Yr	1996	1995	1994	1993			
Maturity Groups II-III															
	IA2007BC	39.8	25.0	---	---	32.4	---	---	74	102	---	---	-13	1.0	23
MIDLAND	8340	60.2	26.1	24.7	33.3	43.1	37.0	36.1	112	107	122	104	-11	1.0	25
NORTHROP KING	S30-06	51.6	24.9	---	---	38.2	---	---	96	102	---	---	-11	1.0	22
	IA2022	44.8	---	---	---	---	---	---	83	---	---	---	-8	1.0	26
	RESNIK	55.4	25.9	19.2	33.5	40.6	33.5	33.5	103	106	95	104	-7	1.0	24

(CONTINUED)

TABLE 9. STAFFORD COUNTY SOYBEAN PERFORMANCE (IRRIGATED), 1993-96.

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT	LODGING SCORE	HT IN
		1996	1995	1994	1993	2-Yr	3-Yr	4-Yr	1996	1995	1994	1993			
MATURITY GROUPS II-III															
	IA2007BC	37.7	41.0	---	---	39.3	---	---	70	83	---	---	-11	1.0	30
ASGROW	A3244	55.9	---	---	---	---	---	---	103	---	---	---	-11	1.0	30
GREAT LAKES	GL 3145	45.7	51.7	54.4	---	48.7	50.6	---	84	105	109	---	-10	1.0	30
	IA2022	52.4	---	---	---	---	---	---	97	---	---	---	-10	1.0	33
	RESNIK	47.0	47.3	49.2	34.2	47.2	47.9	44.4	87	96	98	82	-9	1.0	29
	KS3494	48.5	49.8	50.9	38.8	49.1	49.7	47.0	90	101	102	93	-8	1.0	34
NORTHRUP KING	S35-35	49.3	47.1	49.3	42.1	48.2	48.6	46.9	91	96	99	101	-7	1.0	32
GREAT LAKES	GL 3396	55.0	---	---	---	---	---	---	102	---	---	---	-6	1.0	29
PIONEER	9362	50.3	47.6	52.0	---	48.9	50.0	---	93	97	104	---	-5	1.0	34
WILSON	3670	54.8	48.9	---	---	51.9	---	---	101	99	---	---	-5	1.0	34
STAR	BLAZER	54.0	---	---	---	---	---	---	100	---	---	---	-3	1.3	36
MIDLAND	8371	54.4	---	---	---	---	---	---	100	---	---	---	-2	1.0	33
	EDISON	50.6	46.5	49.4	40.7	48.6	48.8	46.8	93	94	99	98	-2	1.0	32
	PROBST	61.5	49.9	47.6	---	55.7	53.0	---	114	101	95	---	-2	1.0	35
MSG	G 3555	56.9	---	---	---	---	---	---	105	---	---	---	-2	1.0	36
MIDLAND	8356	55.3	53.0	---	---	54.2	---	---	102	108	---	---	-1	1.3	33
NC+	3A96	51.8	---	---	---	---	---	---	96	---	---	---	-1	1.0	38
PIONEER	9393	54.4	52.2	---	41.5	53.3	---	---	100	106	---	99	-1	1.0	34
NORTHRUP KING	S39-41	50.0	50.5	---	42.0	50.2	---	---	92	103	---	101	-1	1.0	33
	MACON	59.0	62.2	---	---	60.6	---	---	109	126	---	---	-1	1.3	31
DEKALB	CX399	57.8	46.5	---	---	52.1	---	---	107	94	---	---	-1	1.0	32
MIDLAND	8375	56.0	52.4	55.2	---	54.2	54.5	---	103	106	110	---	-1	1.0	33
STAR	EXPRESS II	52.1	56.5	---	---	54.3	---	---	96	115	---	---	-1	1.0	30
	SHERMAN	59.0	46.9	55.2	---	53.0	53.7	---	109	95	110	---	-1	1.0	36
STINE	3870	58.7	---	---	---	---	---	---	108	---	---	---	-1	1.0	31
MSG	G3996(OHLDE 3996)	60.4	56.2	---	---	58.3	---	---	112	114	---	---	-1	1.0	35
STAR	GALAXY	60.6	55.0	52.6	46.2	57.8	56.1	53.6	112	112	105	111	0	1.0	33
DELANGE	DS 390	52.9	47.7	43.7	43.2	50.3	48.1	46.9	98	97	87	104	0	1.0	39
STINE	3786	56.1	---	---	---	---	---	---	104	---	---	---	0	1.0	37
	WILLIAMS 82	49.4	43.1	36.8	41.4	46.3	43.1	42.7	91	88	74	99	1	1.0	35
MIDLAND	8386STS(EXP38STS)	61.1	---	---	---	---	---	---	113	---	---	---	1	1.0	32
STAR	QUEST	57.6	53.6	---	---	55.6	---	---	106	109	---	---	1	1.0	31
MSG	G 3626	52.9	---	---	---	---	---	---	98	---	---	---	1	1.0	30
NC+	3A67	55.7	---	---	---	---	---	---	103	---	---	---	2	1.0	31
ASGROW	A3834	60.6	49.6	---	---	55.1	---	---	112	101	---	---	2	1.0	32
TEST AVERAGES		54.2	49.2	50.0	41.7										
LSD (.1:'94-96, .05:'93)		4.3	5.7	4.8	NS										

(CONTINUED)

TABLE 9. STAFFORD COUNTY SOYBEAN PERFORMANCE (IRRIGATED), 1993-96.

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT	LODGING SCORE	HT IN
		1996	1995	1994	1993	2-Yr	3-Yr	4-Yr	1996	1995	1994	1993			
MATURITY GROUP IV															
PIONEER	9412	53.8	---	---	---	---	---	---	93	---	---	---	-1	1.0	32
MIDLAND	8401CN	50.2	---	---	---	---	---	---	87	---	---	---	0	1.0	33
WILSON	4010	59.5	57.3	---	---	58.4	---	---	103	112	---	---	0	1.3	35
	FLYER	52.3	52.3	49.7	42.5	52.3	51.5	49.2	91	102	103	101	9/26	1.0	34
NC+	4A10	66.6	58.9	57.8	44.9	62.8	61.1	57.1	115	115	119	106	1	1.0	35
	K1231	57.1	50.8	50.8	37.7	53.9	52.9	49.1	99	99	105	89	2	1.3	35
NORTHRUP KING	S42-60	59.6	56.5	52.8	40.0	58.0	56.3	52.2	103	110	109	95	3	1.5	39
	K1298	52.8	---	---	---	---	---	---	91	---	---	---	3	1.3	39
	STRESSLAND	63.0	54.0	51.9	---	58.5	56.3	---	109	105	107	---	3	1.3	41
DEKALB	CX434	60.3	---	---	---	---	---	---	104	---	---	---	3	1.0	36
DELANGE	DS 410	62.1	48.9	---	---	55.5	---	---	108	95	---	---	3	1.3	39
MIDLAND	8431	57.1	---	---	---	---	---	---	99	---	---	---	4	1.0	34
	K1235	57.4	44.0	47.8	41.0	50.7	49.7	47.5	99	86	99	97	4	1.0	36
DEKALB	CX445	65.0	49.1	---	---	57.1	---	---	113	96	---	---	4	1.3	39
MIDLAND	XP411	52.1	---	---	---	---	---	---	90	---	---	---	4	1.0	32
NORTHRUP KING	S46-44	55.1	---	---	---	---	---	---	95	---	---	---	4	1.5	41
ASGROW	A4341	60.8	---	---	---	---	---	---	105	---	---	---	4	1.0	35
	KS4694	57.2	47.6	37.3	39.5	52.4	47.4	45.4	99	93	77	94	5	1.0	34
	K1303	55.8	---	---	---	---	---	---	97	---	---	---	5	1.0	36
TEST AVERAGES		57.8	51.2	48.5	42.2										
LSD (.1:'94-96, .05:'93)		4.0	4.9	5.1	5.4										
LSD (.1 BETWEEN MATURITY GROUPS)		5.5	5.6	5.5											

TABLE 10. THOMAS COUNTY SOYBEAN PERFORMANCE (IRRIGATED), 1992-96.

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT	LODGING SCORE	HT IN
		1996	1995	1994	1992	2-Yr	3-Yr	4-Yr	1996	1995	1994	1992			
MATURITY GROUP II															
	IA2007BC	35.0	36.6	---	---	35.8	---	---	81	100	---	---	-14	1.0	27
	IA2022	42.8	---	---	---	---	---	---	99	---	---	---	-13	1.3	30
MSG	G 2804 (X804)	45.0	38.8	---	---	41.9	---	---	105	106	---	---	-10	1.3	28
MSG	2930	47.5	39.2	72.1	---	43.3	52.9	---	110	107	106	---	-9	1.3	27
MIDLAND	8282	45.0	---	---	---	---	---	---	105	---	---	---	-9	1.3	30
TEST AVERAGES		43.1	36.7	68.1	54.4										
LSD (.1:'94-96, .05:'92)		6.4	NS	6.6	3.2										
MATURITY GROUPS III-IV															
	KS3494	56.3	40.9	73.7	60.1	48.6	56.9	57.7	104	119	103	106	-7	1.8	32
	SHERMAN	51.0	36.3	76.1	---	43.7	54.5	---	95	105	106	---	-6	1.5	30
	MACON	52.0	37.3	---	---	44.7	---	---	96	108	---	---	-5	1.8	30
	RESNIK	54.0	35.0	69.2	51.6	44.5	52.7	52.4	100	102	97	91	-5	1.8	32
STINE	3171	51.0	---	---	---	---	---	---	95	---	---	---	-5	1.0	31
	PROBST	56.3	37.7	73.5	---	47.0	55.8	---	104	110	103	---	-5	1.5	31
STINE	3480	54.3	---	---	---	---	---	---	101	---	---	---	-4	1.8	32
	EDISON	52.3	32.7	75.7	54.6	42.5	53.6	53.8	97	95	106	97	-3	1.5	31
	K1231	62.3	35.6	66.1	---	48.9	54.7	---	115	104	92	---	-2	2.0	33
MIDLAND	8371	51.8	---	---	---	---	---	---	96	---	---	---	-1	2.0	32
	FLYER	54.0	34.2	68.4	52.6	44.1	52.2	52.3	100	99	96	93	10/4	2.0	33
	WILLIAMS 82	54.0	30.6	61.9	49.5	42.3	48.8	49.0	100	89	87	88	1	2.5	36
	STRESSLAND	60.0	33.8	71.2	---	46.9	55.0	---	111	98	100	---	5	3.0	38
	K1235	54.8	31.8	72.1	---	43.3	52.9	---	101	92	101	---	5	2.8	33
	KS4694	58.5	26.7	67.3	---	42.6	50.9	---	108	78	94	---	8	3.0	35
TEST AVERAGES		54.0	34.4	71.5	56.5										
LSD (.1:'94-96, .05:'93)		4.1	5.3	5.1	3.7										
LSD (.1 BETWEEN MATURITY GROUPS)		5.5	7.5	6.1											

TABLE 11. FINNEY COUNTY SOYBEAN PERFORMANCE (IRRIGATED), 1993-96.

BRAND	ENTRY	YIELD (Bu/A)						YIELD AS % OF TEST AVERAGE				MAT	LODGING SCORE	HT IN	
		1996	1995	1994	1993	2-Yr	3-Yr	4-Yr	1996	1995	1994				1993
MATURITY GROUPS II-III															
MIDLAND	8393	56.8	39.9	69.3	---	48.3	55.3	---	111	120	122	---	-	2.7	29
PIONEER	9381	48.5	30.1	49.7	49.8	39.3	42.8	44.5	95	91	88	98	-	1.0	27
	IA2022	45.9	---	---	---	---	---	---	90	---	---	---	-	1.0	26
PIONEER	9393	57.4	37.7	58.9	53.6	47.6	51.3	51.9	112	113	104	106	-	1.0	29
PIONEER	9362	37.9	28.2	42.0	---	33.0	36.0	---	74	85	74	---	-	1.0	25
	PROBST	47.3	28.4	43.6	---	37.8	39.8	---	93	85	77	---	-	1.0	26
ASGROW	A3834	52.9	34.2	---	---	43.5	---	---	104	103	---	---	-	1.0	27
	WILLIAMS 82	55.7	32.6	53.7	48.3	44.2	47.3	47.6	109	98	95	95	-	1.0	32
MSG	G3996(OHLDE 3996)	51.1	38.4	---	---	44.7	---	---	100	115	---	---	-	1.0	29
	RESNIK	52.7	29.0	52.1	43.6	40.8	44.6	44.3	103	87	92	86	-	1.0	28
	IA2007BC	41.1	28.3	---	---	34.7	---	---	81	85	---	---	-	1.0	26
	EDISON	52.4	34.7	57.1	56.4	43.5	48.1	50.2	103	104	101	111	-	1.0	27
	MACON	50.9	27.9	---	---	39.4	---	---	100	84	---	---	-	1.0	27
GREAT LAKES	GL 3396	47.8	---	---	---	---	---	---	94	---	---	---	-	1.0	28
MIDLAND	8356	54.2	34.9	---	---	44.6	---	---	106	105	---	---	-	1.0	28
	SHERMAN	53.4	26.9	54.6	---	40.1	45.0	---	104	81	96	---	-	1.7	27
	KS3494	57.2	31.5	62.5	52.0	44.4	50.4	50.8	112	95	110	103	-	1.0	28
MIDLAND	8371	51.0	---	---	---	---	---	---	100	---	---	---	-	1.0	28
MSG	G 3555	53.0	---	---	---	---	---	---	104	---	---	---	-	1.3	28
MSG	G 3626	48.8	---	---	---	---	---	---	96	---	---	---	-	1.0	25
STINE	3470	55.1	---	---	---	---	---	---	108	---	---	---	-	1.0	24
STINE	3786	52.6	---	---	---	---	---	---	103	---	---	---	-	1.0	27
TEST AVERAGES		51.1	33.3	56.7	50.8										
LSD (.1:'94-96, .05:'93)		7.5	6.0	9.2	7.7										
MATURITY GROUP IV															
	FLYER	55.8	33.3	49.5	49.1	44.5	46.2	46.9	108	91	87	110	-	1.3	30
	KS4694	47.8	36.9	53.7	49.5	42.3	46.1	47.0	93	101	94	111	-	1.3	33
	K1231	47.7	38.8	56.1	45.1	43.3	47.6	46.9	93	106	99	101	-	1.7	28
	K1235	53.8	40.5	65.4	46.9	47.1	53.2	51.6	104	111	115	106	-	2.3	32
ASGROW	A4341	52.1	---	---	---	---	---	---	101	---	---	---	-	1.3	30
DEKALB	CX411	58.2	37.3	66.8	---	47.7	54.1	---	113	102	117	---	-	1.3	29
DEKALB	CX445	52.8	41.8	---	---	47.3	---	---	103	114	---	---	-	2.3	31
	STRESSLAND	54.7	49.8	58.3	---	52.2	54.2	---	106	136	102	---	-	1.3	31
	SPARKS	46.1	37.1	60.2	55.1	41.6	47.8	49.6	89	101	106	124	-	2.0	29
	K1278	46.8	37.2	---	---	42.0	---	---	91	102	---	---	-	1.0	31
AGRIPRO	AP 4100	53.7	---	---	---	---	---	---	104	---	---	---	-	1.0	27
AGRIPRO	AP 4464	43.9	---	---	---	---	---	---	85	---	---	---	-	1.3	36
GREAT LAKES	GL 4341	52.8	---	---	---	---	---	---	102	---	---	---	-	1.3	33
PIONEER	9421	54.4	---	---	---	---	---	---	106	---	---	---	-	1.0	30
TEST AVERAGES		51.5	36.6	56.9	44.5										
LSD (.1:'94-96, .05:'93)		NS	4.7	10.6	11.3										
LSD (.1 BETWEEN MATURITY GROUPS)		9.6	5.7	11.1											

TABLE 13. YIELD AS % OF TEST AVERAGE FROM 1996 LOCATIONS.

BRAND	NAME	BRO*	FRA	LAB	RPD	RPI	HAR	STA	THO	FIN	SCN	AVG
	CRAWFORD	---	82	93	---	---	---	---	---	---	---	88
	DELSONY 4710	---	---	101	---	---	---	---	---	---	104	101
	DELSONY 4900	---	---	95	---	---	---	---	---	---	99	95
	DELSONY 5500	---	---	98	---	---	---	---	---	---	---	98
	DUNBAR	102	---	---	96	104	---	---	---	---	---	101
	EDISON	96	95	95	90	96	104	93	97	103	---	97
	ESSEX	---	---	92	---	---	---	---	---	---	74	92
	FLYER	102	100	100	100	100	88	91	100	108	84	99
	FORREST	---	---	91	---	---	---	---	---	---	106	91
	HAMILTON	92	---	---	102	100	---	---	---	---	---	98
	HARTWIG	---	---	86	---	---	---	---	---	---	94	86
	HOLLADAY	---	---	105	---	---	---	---	---	---	87	105
	HUTCHESON	---	---	103	---	---	---	---	---	---	86	103
	IA2007BC	94	66	80	97	97	74	70	81	81	---	82
	IA2022	101	89	92	115	96	83	97	99	90	---	96
	K1218	---	---	112	---	---	---	---	---	---	---	112
	K1231	111	107	90	105	105	92	99	115	93	---	102
	K1235	87	96	108	105	99	114	99	101	104	---	101
	K1276	---	---	110	---	---	---	---	---	---	---	110
	K1277	---	---	108	---	---	---	---	---	---	---	108
	K1278	---	---	---	---	---	---	---	---	91	---	91
	K1298	---	---	---	---	---	---	91	---	---	---	91
	K1303	---	---	---	---	---	---	97	---	---	---	97
	K1305	---	---	102	---	---	---	---	---	---	---	102
	K1307	---	---	105	---	---	---	---	---	---	101	105
	K1308	---	---	104	---	---	---	---	---	---	---	104
	K1309	---	---	95	---	---	---	---	---	---	---	95
	K1330	---	---	106	---	---	---	---	---	---	---	106
	K1331	---	---	101	---	---	---	---	---	---	---	101
	K1333	---	---	105	---	---	---	---	---	---	---	105
	K1335	---	---	102	---	---	---	---	---	---	---	102
	KS3494	93	90	104	90	102	97	90	104	112	---	98
	KS4694	84	90	106	99	100	105	90	108	93	---	98
	KS4895	---	82	103	---	---	---	---	---	---	---	93
	KS5292	---	---	101	---	---	---	---	---	---	92	101
	MACON	99	112	106	109	101	107	109	96	100	---	104
	MANOKIN	---	---	94	---	---	---	---	---	---	124	94
	PROBST	95	98	101	104	104	88	114	104	93	---	100
	RESNIK	92	89	96	103	93	103	87	100	103	---	96
	SHERMAN	105	108	104	98	96	90	109	95	104	---	101
	SPARKS	---	---	---	---	---	---	---	---	89	---	89
	STAFFORD	---	---	100	---	---	---	---	---	---	85	100
	STRESSLAND	97	98	103	95	96	102	109	111	106	88	102
	WILLIAMS 82	83	92	96	80	92	99	91	100	109	---	94
AGRIPRO	AP 3727	95	---	98	---	---	66	---	---	---	---	86
AGRIPRO	AP 4100	117	---	103	---	---	104	---	---	104	---	107
AGRIPRO	AP 4464	85	---	---	---	---	94	---	---	85	---	88
ASGROW	A3244	112	---	---	---	104	---	103	---	---	---	106
ASGROW	A3834	99	111	---	---	98	95	112	---	104	---	103
ASGROW	A4341	99	105	---	---	---	105	105	---	101	64	103
ASGROW	A4922	---	---	---	---	---	---	---	---	---	111	---
ASGROW	A5547	---	---	---	---	---	---	---	---	---	110	---
DEKALB	CX368	99	109	---	---	100	---	---	---	---	---	103
DEKALB	CX377	98	---	---	---	103	---	---	---	---	---	101
DEKALB	CX399	91	103	---	102	---	---	107	---	---	---	101
DEKALB	CX411	106	---	---	---	110	---	---	---	113	---	110
DEKALB	CX434	---	---	---	---	---	---	104	---	---	---	104
DEKALB	CX445	---	106	106	---	---	---	113	---	103	---	107

(CONTINUED)

TABLE 13. YIELD AS % OF TEST AVERAGE FROM 1996 LOCATIONS. (CONTINUED)

BRAND	NAME	BRO*	FRA	LAB	RPD	RPI	HAR	STA	THO	FIN	SCN	AVG
DEKALB	CX469C	---	---	---	---	---	---	---	---	---	102	---
DEKALB	CX494	---	---	99	---	---	---	---	---	---	---	99
DEKALB	CX510C	---	---	---	---	---	---	---	---	---	106	---
DELANGE	DS 390	---	---	---	---	---	90	98	---	---	---	94
DELANGE	DS 410	---	105	87	---	---	79	108	---	---	---	95
DELANGE	DS 466	---	---	---	---	---	---	---	---	---	126	---
DELANGE	DS 485	---	101	102	---	---	---	---	---	---	---	102
DYNA-GRO	3368	109	108	---	96	---	93	---	---	---	---	102
DYNA-GRO	3395 (UAPX-145)	105	105	112	91	---	116	---	---	---	---	106
DYNA-GRO	3444N	---	---	101	---	---	---	---	---	---	108	101
DYNA-GRO	3502N (3502)	---	---	93	---	---	---	---	---	---	95	93
FONTANELLE	3376	96	---	---	84	99	---	---	---	---	---	93
FONTANELLE	6100	93	---	---	---	---	---	---	---	---	---	93
FONTANELLE	6104	97	---	---	---	---	---	---	---	---	---	97
FONTANELLE	EXP9474	93	---	---	115	104	---	---	---	---	---	104
GOLDEN HARVEST	H-1353	110	---	---	---	---	---	---	---	---	---	110
GOLDEN HARVEST	H-1388	---	104	---	---	---	---	---	---	---	---	104
GOLDEN HARVEST	H-1454 (X 454)	---	97	101	---	---	---	---	---	---	99	99
GOLDEN HARVEST	H-1485	---	94	99	---	---	---	---	---	---	---	97
GOLDEN HARVEST	H-1500 (X 500)	---	---	97	---	---	---	---	---	---	104	97
GREAT LAKES	GL 3145	---	---	---	---	---	---	84	---	---	---	84
GREAT LAKES	GL 3396	---	---	---	---	---	---	102	---	94	---	98
GREAT LAKES	GL 4341	---	---	---	---	---	---	---	---	102	---	102
HAMON	435	101	---	---	---	---	---	---	---	---	---	101
HOEGEMEYER	312	---	---	---	---	98	---	---	---	---	---	98
HOEGEMEYER	362	---	---	---	---	94	---	---	---	---	---	94
HOEGEMEYER	365	104	87	---	---	99	---	---	---	---	---	97
HOEGEMEYER	380	109	99	---	---	103	---	---	---	---	---	104
HOEGEMEYER	401	116	102	---	---	---	---	---	---	---	---	109
HOEGEMEYER	435	99	120	---	---	---	---	---	---	---	---	110
ICI	D371	109	---	---	---	100	---	---	---	---	---	105
ICI	D454	114	105	---	---	101	---	---	---	---	88	107
ICI	D473	---	---	---	---	---	---	---	---	---	108	---
ICI	D478	---	---	104	---	---	---	---	---	---	---	104
ICI	D485	---	---	101	---	---	---	---	---	---	99	101
LEWIS	349	105	---	---	---	---	---	---	---	---	---	105
LEWIS	360	113	---	---	---	---	---	---	---	---	---	113
LEWIS	390	100	102	---	---	---	---	---	---	---	---	101
LEWIS	409	111	---	---	---	---	---	---	---	---	---	111
MEDALLION	M 3909	100	106	---	---	---	---	---	---	---	---	103
MEDALLION	M 4007	110	99	101	---	---	---	---	---	---	---	103
MEDALLION	M 4805	---	---	103	---	---	---	---	---	---	---	103
MERSCHMAN	ATLANTA III	---	109	---	---	---	---	---	---	---	---	109
MERSCHMAN	MADISON IV	103	---	---	---	---	---	---	---	---	---	103
MERSCHMAN	NASHVILLE	---	96	---	---	---	---	---	---	---	---	96
MERSCHMAN	PHOENIX	---	---	---	---	---	---	---	---	---	74	---
MIDLAND	8282	---	---	---	100	100	---	---	105	---	---	102
MIDLAND	8321	---	---	---	95	106	---	---	---	---	---	101
MIDLAND	8325	---	---	---	95	102	---	---	---	---	---	99
MIDLAND	8333STS	---	---	---	92	94	---	---	---	---	---	93
MIDLAND	8340	---	---	---	---	---	112	---	---	---	---	112
MIDLAND	8355	100	---	---	104	101	---	---	---	---	---	102
MIDLAND	8356	99	---	---	94	105	87	102	---	106	---	99
MIDLAND	8371	---	---	---	---	100	119	100	96	100	---	103
MIDLAND	8375	---	---	---	---	---	---	103	---	---	---	103

(CONTINUED)

TABLE 13. YIELD AS % OF TEST AVERAGE FROM 1996 LOCATIONS. (CONTINUED)

BRAND	NAME	BRO*	FRA	LAB	RPD	RPI	HAR	STA	THO	FIN	SCN	AVG
MIDLAND	8386STS (EXP 38STS)	96	---	---	---	101	99	113	---	---	---	102
MIDLAND	8393	97	94	---	---	---	---	---	---	111	---	101
MIDLAND	8401CN	---	---	---	101	---	80	87	---	---	93	89
MIDLAND	8410	106	114	100	---	100	---	---	---	---	---	105
MIDLAND	8413	---	101	98	---	---	---	---	---	---	---	100
MIDLAND	8431	---	101	103	96	96	120	99	---	---	---	103
MIDLAND	8475	---	---	95	---	---	---	---	---	---	112	95
MIDLAND	8486 (EXP 481)	---	96	103	---	---	---	---	---	---	---	100
MIDLAND	8487NB (EXP 48N)	---	---	93	---	---	---	---	---	---	---	93
MIDLAND	XP283	---	---	---	95	97	---	---	---	---	---	96
MIDLAND	XP411	90	93	---	94	---	108	90	---	---	---	95
MSG	2930	---	---	---	---	---	---	---	110	---	---	110
MSG	G 2804 (X804)	---	---	---	---	---	---	---	105	---	---	105
MSG	G 3555	103	---	---	---	101	---	105	---	104	---	103
MSG	G 3626	---	---	---	104	---	---	98	---	96	---	99
MSG	G 3996 (OHLDE 3996)	104	105	---	107	103	116	112	---	100	---	107
MSG	G 4320	---	---	---	---	---	---	---	---	---	105	---
MSG	G 5023N	---	---	---	---	---	---	---	---	---	97	---
MSG	O 4440 (OHLDE)	---	110	---	---	---	---	---	---	---	---	110
MYCOGEN	395	---	---	---	---	100	95	---	---	---	---	98
MYCOGEN	429	99	96	---	---	96	---	---	---	---	105	97
MYCOGEN	470	88	105	---	99	---	---	---	---	---	---	97
MYCOGEN	J-399	93	---	---	---	---	---	---	---	---	---	93
NC+	3A67	113	---	---	---	---	102	103	---	---	---	106
NC+	3A75	---	---	---	107	---	---	---	---	---	---	107
NC+	3A96	---	92	---	101	---	---	96	---	---	---	96
NC+	4A10	---	107	---	101	---	---	115	---	---	---	108
NC+	4A27	---	---	---	---	---	---	---	---	---	109	---
NC+	4A47	---	106	106	---	---	---	---	---	---	---	106
NC+	5A15	---	---	---	---	---	---	---	---	---	111	---
NC+	5A44	---	---	95	---	---	---	---	---	---	117	95
NECO	7446	---	97	---	86	97	---	---	---	---	---	93
NORTHRUP KING	S30-06	105	83	---	99	96	96	---	---	---	---	96
NORTHRUP KING	S35-35	91	---	---	---	---	---	91	---	---	---	91
NORTHRUP KING	S39-41	93	---	---	---	---	---	92	---	---	---	93
NORTHRUP KING	S42-60	101	110	102	---	99	109	103	---	---	---	104
NORTHRUP KING	S46-44	---	90	93	---	---	112	95	---	---	113	98
NORTHRUP KING	S52-25	---	---	95	---	---	---	---	---	---	97	95
NORTHRUP KING	S57-11	---	---	100	---	---	---	---	---	---	111	100
PATRIOT	390	99	---	---	---	---	---	---	---	---	---	99
PATRIOT	391	101	---	---	---	---	---	---	---	---	---	101
PATRIOT	457N	---	96	---	---	---	---	---	---	---	---	96
PATRIOT	482N	---	---	88	---	---	---	---	---	---	---	88
PATRIOT	530N	---	---	103	---	---	---	---	---	---	---	103
PATRIOT	555N	---	---	99	---	---	---	---	---	---	---	99
PATRIOT	7372N	89	---	---	---	---	---	---	---	---	---	89
PATRIOT	7430N	---	81	---	---	---	---	---	---	---	---	81
PATRIOT	7459N	---	91	---	---	---	---	---	---	---	---	91
PATRIOT	7520N	---	---	95	---	---	---	---	---	---	---	95
PIONEER	9321	---	---	---	104	100	---	---	---	---	---	102
PIONEER	9333	---	---	---	99	---	---	---	---	---	---	99
PIONEER	9343	---	---	---	---	108	---	---	---	---	---	108
PIONEER	9362	101	---	---	---	---	93	93	---	74	---	90
PIONEER	9381	---	---	---	---	---	---	---	---	95	---	95
PIONEER	9391	99	90	---	---	---	---	---	---	---	---	95
PIONEER	9393	---	---	---	---	---	109	100	---	112	---	107
PIONEER	9395	100	100	---	---	---	---	---	---	---	---	100
PIONEER	9412	---	95	---	---	---	85	93	---	---	---	91
PIONEER	9421	---	---	---	---	---	---	---	---	106	---	106
PIONEER	9481	---	---	93	---	---	---	---	---	---	114	93

(CONTINUED)

TABLE 13. YIELD AS % OF TEST AVERAGE FROM 1996 LOCATIONS. (CONTINUED)

BRAND	NAME	BRO*	FRA	LAB	RPD	RPI	HAR	STA	THO	FIN	SCN	AVG
PIONEER	9491	---	---	---	---	---	---	---	---	---	101	---
PIONEER	9521	---	---	99	---	---	---	---	---	---	128	99
STAR	BLAZER	---	---	---	107	---	---	100	---	---	---	104
STAR	BOUNTY STS	---	---	---	100	---	---	---	---	---	---	100
STAR	CELEBRITY	---	---	---	110	---	---	---	---	---	---	110
STAR	EXPRESS II	99	104	---	101	103	126	96	---	---	---	105
STAR	GALAXY	---	99	---	100	113	115	112	---	---	---	108
STAR	QUEST	111	110	---	108	97	90	106	---	---	---	104
STINE	3171	---	---	---	---	---	---	---	95	---	---	95
STINE	3470	---	---	---	---	---	---	---	---	108	---	108
STINE	3480	---	---	---	101	---	---	101	---	---	---	101
STINE	3660	113	104	---	105	104	---	---	---	---	---	107
STINE	3786	105	---	---	---	---	---	104	---	103	---	104
STINE	3870	---	110	---	---	---	135	108	---	---	---	118
STINE	4650	---	103	---	---	---	---	---	---	---	---	103
STINE	4680	---	112	---	---	---	---	---	---	---	---	112
TAYLOR	395	102	---	---	---	---	---	---	---	---	---	102
TAYLOR	399	---	101	---	---	---	---	---	---	---	---	101
TAYLOR	454	---	117	---	---	---	---	---	---	---	---	117
TAYLOR	EXP 93T355	101	---	---	---	---	---	---	---	---	---	101
TERRA	TS364	---	105	111	---	---	---	---	---	---	---	108
TERRA	TS393	---	95	96	---	---	---	---	---	---	---	96
TERRA	TS402	---	104	103	---	---	---	---	---	---	---	104
TERRA	TS415 (E415)	---	108	118	---	---	---	---	---	---	---	113
TERRA	TS4292 (E4292)	---	97	101	---	---	---	---	---	---	99	99
TERRA	TS474 (E474)	---	97	104	---	---	---	---	---	---	---	101
TERRA	TS4792 (E4792)	---	89	97	---	---	---	---	---	---	104	93
TERRA	TS5504	---	73	106	---	---	---	---	---	---	103	90
WILLCROSS	92A	100	111	106	92	94	---	---	---	---	---	101
WILLCROSS	92B	108	102	105	95	101	---	---	---	---	---	102
WILLCROSS	9435A	87	109	---	94	95	---	---	---	---	---	96
WILLCROSS	9435B	88	---	---	94	98	---	---	---	---	---	93
WILLCROSS	9447A	---	107	106	---	---	---	---	---	---	---	107
WILLCROSS	9447B	---	112	106	---	---	---	---	---	---	---	109
WILLCROSS	9531	99	---	---	108	102	---	---	---	---	---	103
WILLCROSS	9536	102	107	---	107	101	---	---	---	---	---	104
WILLCROSS	9540A	---	109	98	99	96	---	---	---	---	---	101
WILLCROSS	9540B	---	92	100	---	---	---	---	---	---	---	96
WILLCROSS	9541N	---	---	---	---	---	---	---	---	---	109	---
WILLCROSS	9547N	---	---	---	---	---	---	---	---	---	104	---
WILLCROSS	9635	---	112	---	106	99	---	---	---	---	---	106
WILLCROSS	9639	---	99	---	106	100	---	---	---	---	---	102
WILLCROSS	9640	---	104	107	114	100	---	---	---	---	---	106
WILLCROSS	9644N	---	89	---	---	---	---	---	---	---	115	89
WILLCROSS	9650N	---	---	87	---	---	---	---	---	---	108	87
WILSON	3670	101	---	---	---	---	102	101	---	---	---	101
WILSON	4010	92	---	---	---	---	106	103	---	---	---	100

* BRO = BROWN COUNTY, FRA = FRANKLIN COUNTY, LAB = LABETTE COUNTY, RPD = REPUBLIC COUNTY, BELLEVILLE TEST, RPI = REPUBLIC COUNTY, SCANDIA TEST, HAR = HARVEY COUNTY, STA = STAFFORD COUNTY, THO = THOMAS COUNTY, FIN = FINNEY COUNTY, SCN = CHEROKEE COUNTY SOYBEAN CYST NEMATODE TEST, AND AVG = AVERAGE OF ALL TRIALS, EXCEPT THE SOYBEAN CYST NEMATODE TRIAL (SCN).

(CONTINUED)

TABLE 14. DESCRIPTION OF ENTRIES IN 1996 SOYBEAN PERFORMANCE TEST. *

BRAND	NAME	MG	VT	FC	HI	PU	PB	SCN				PHYTO				
								R1	R3	R14	SOURCE	RR	TOL	SHAT	FE	
	CRAWFORD	IV	PL	P	BL	T	BR	S	S	S					1	5.6
	DELISOY 4710	IVS	PL	P	BL	T		S	R	R	PI209332				1	5.1
	DELISOY 4900	IVS	PL	P	BR	T		R	R	S	PEKING				1	5.5
	DELISOY 5500	V	PL	W		T	T	R	R	MR	Peking/PI88788				1	4.0
	DUNBAR	III	PL	P	BL	G	BR	S	S	S		RPS1			1	4.5
	EDISON	III	PL	P	BL	T	T	S	S	S		RPS1k			1	6.2
	ESSEX	V	PL	P	BF	G		S	S	S					1	4.3
	FLYER	IV	PL	P	BL	T	T	S	S	S		RPS1k			1	4.5
	FORREST	V	PL	W	BL	T		R	R	S	PEKING				1	6.1
	HAMILTON	IV	PL	W	BF	G	T	S	S	S					1	6.0
	HARTWIG	V	PL	W	BL	T		R	R	R	PI437654				1	5.6
	HOLLADAY	V	PL	P	BF	G	T	S	S	S					1	6.0
	HUTCHESON	V	PL	W	BF	G	T	S	S	S					1	4.6
	IA2007BC	II	PL	P	BR	T	BR	S	S	S					1	5.3
	IA2022	II	PL	P	BL	G	BR	S	S	S					2	6.7
	K1218	IVS	PL												1	5.4
	K1231	IV	PL												1	4.8
	K1235	IV	PL												1	5.0
	K1276	V	PL							S					1	2.7
	K1277	V	PL							S					1	5.3
	K1278	IV	PL							S					1	3.3
	K1298	IV	PL							R					1	6.4
	K1303	IV	PL							R					1	5.7
	K1305	V	PL							S					1	4.9
	K1307	V	PL							R					1	5.5
	K1308	V	PL							S					1	4.3
	K1309	V	PL							S					1	6.5
	K1330	V	PL							S					1	6.2
	K1331	V	PL							S					1	6.1
	K1333	V	PL							S					1	5.0
	K1335	V	PL							S					1	4.6
	KS3494	III	PL	P	BL	T	BR	S	S	S					1	5.8
	KS4694	IV	PL	W	BF	G	BR	S	S	S					1	5.1
	KS4895	IVS	PL	P	BL	G	T	S	S	S					1	5.3
	KS5292	V	PL	W	BF	G	T	R	R	S	PEKING				1	5.6
	MACON	III	PL	W	BL	T	BR	S	S	S					1	5.2
	MANOKIN	V	PL	W	BL	T	T	R	R	S	PEKING				1	5.6
	PROBST	III	PL	P	BL	T	T	S	S	S		RPS1k			1	6.7
	RESNIK	III	PL	P	BL	T	T	S	S	S		RPS1k			1	5.8
	SHERMAN	III	PL	W	BF	G	BR	S	S	S					1	6.0
	SPARKS	IV	PL	W	BL	T	T	S	S	S		RPS1			1	3.4
	STAFFORD	V	PL	P	IB	G	T	S	S	S					1	5.5
	STRESSLAND	IV	PL	P	BL	T	T	S	S	S					1	6.4
	WILLIAMS 82	III	PL	W	BL	BR	T	S	S	S		RPS1k			1	5.7
AGRIPRO	AP 3727	III	PL	P	BL	T	T	S	S	S				2.5	1	5.7
AGRIPRO	AP 4100	IV	PL	P	BR	T	T	S	S	S				2.7	1	5.6
AGRIPRO	AP 4464	IV	PL	W	BL	T	BR	S	S	S				2.5	1	4.4
ASGROW	A3244	III	PL	P	IB	G	BR					RPS1c			1	5.7
ASGROW	A3834	III	PL	P	BL	TN	TN					S	2.0	1	6.1	
ASGROW	A4341	IV	PL	P	BL	TN	TN					RPS1k	3.0	1	4.9	
ASGROW	A4922	IV	PL	W	BL	TN	TN		R	R	Peking/PI88788	S	4.0	1	6.5	
ASGROW	A5547	V	PL	W	BL	G	TN		R	R	Peking/PI88788	S	3.0	1	4.8	
DEKALB	CX368	III	PL	W	BL	T		S	S	S		RPS1c	2.0	1	4.6	
DEKALB	CX377	III	PL	W	BL	T	TN	S	S	S		RPS1c	2.0	1	4.5	
DEKALB	CX399	III	PL	W	BL	T	TN	S	S	S		RPS1c	2.0	1	4.4	
DEKALB	CX411	IV	PL	W	BL	T	TN	S	S	S		RPS1c	2.0	1	3.9	
DEKALB	CX434	IV	PL	P	BL	T	BR	S	S	S		RPS1c	2.0	1	4.3	
DEKALB	CX445	IV	PL	W	BL	T	BR	S	S	S		RPS1c	2.0	1	5.1	
DEKALB	CX469C	IV	PL	P	BL	T	BR	S	R	S	PI88788	S	3.0	1	5.0	
DEKALB	CX494	IV	PL	P	BL	T		S	S	S		S	3.0	1	7.1	
DEKALB	CX510C	V	PL	W	BL	T		S	R	S		S	1.0	1	6.1	

(CONTINUED)

TABLE 14. DESCRIPTION OF ENTRIES IN 1996 SOYBEAN PERFORMANCE TEST. * (CONTINUED)

BRAND	NAME	MG	VT	FC	HI	PU	PB	SCN				PHYTO			
								R1	R3	R14	SOURCE	RR	TOL	SHAT	FE
DELANGE	DS 390	III	PL	W	BL	T	BR					RPS1c	3.5	1	4.3
DELANGE	DS 410	IV	PL	P	BL	BR	BR					RPS1c	5.0	1	3.6
DELANGE	DS 466	IV	PL	W	BL	T	T		R	R			4.0	1	5.5
DELANGE	DS 485	IV	PL	P	BF	G	T						5.0	1	7.4
DYNA-GRO	3368	III	PL	P	BR	T	BR	S	S	S			1.0	1	5.7
DYNA-GRO	3395 (UAPX-145)	III	PL	W	BL	T	BR	S	S	S			1.0	1	5.6
DYNA-GRO	3444N	IV	PL	W	BL	BR	T	S	R	S	PI88788		4.0	1	5.6
DYNA-GRO	3502N (3502)	V	PL	S	BL	T	T	S	R	S	PI88788		3.0	1	4.8
FONTANELLE	3376	III	PL	W	BL	T	T	R	R	R	PI88788		1.4	1	4.5
FONTANELLE	6100	III	PL	P	BR	T	T	S	S	S			1.8	1	5.0
FONTANELLE	6104	III	PL	P	BL	BR	T	S	S	S			1.9	1	4.4
FONTANELLE	EXP9474	III	PL					S	S	S				1	4.5
GOLDEN HARVEST	H-1353	III	PL	P	IB	G	BR	S	S	S		RPS1a	1.8	1	6.2
GOLDEN HARVEST	H-1388	III	PL	P	BL	T	BR	S	S	S		RPS1a	2.2	1	4.3
GOLDEN HARVEST	H-1454 (X 454)	IV	PL	W	BF	G	BR	S	R	R	PI88788		2.3	1	4.7
GOLDEN HARVEST	H-1485	IV	PL	P	BL	T	BR	S	S	S			2.0	1	7.4
GOLDEN HARVEST	H-1500 (X 500)	V	PL	W	BL	T	T	S	R	S	PI88788		1.5	1	5.4
GREAT LAKES	GL 3145	III	PL	P	BR	T	BR	S	S	S		RPS1a	2.0	1	5.3
GREAT LAKES	GL 3396	III	PL	W	BF	G	T	S	S	S			2.5	1	4.5
GREAT LAKES	GL 4341	IV	PL	W	BL	T	T	S	R	R	PI88988		2.0	1	6.1
HAMON	435	IV	PL	W	BL	T	BR						2.5	1	5.5
HOEGEMEYER	312	III	PL	P	BL	T	BR	S	S	S			3.0	1	6.3
HOEGEMEYER	362	III	PL	P	BF	G	BR	S	S	S		RPS1a	3.0	1	6.0
HOEGEMEYER	365	III	PL	P	BR	T	BR	S	S	S			1.5	1	5.1
HOEGEMEYER	380	III	PL	P	BR	T	BR	S	S	S			1.5	1	5.7
HOEGEMEYER	401	IV	PL	P	BR	T	T	S	S	S			2.0	1	4.7
HOEGEMEYER	435	IV	PL	W	BL	T	BR	S	S	S			2.0	1	5.5
ICI	D371	III	PL	P	BR	T	BR		S	S		RPS1a	3.0	1	6.1
ICI	D454	IV	PL	W	BF	G	BR		R	MR	PI88788	RPS1A	5.0	1	4.9
ICI	D473	IV	PL	P	BL	T	BR		R	MR	PI88788		5.0	1	6.1
ICI	D478	IV	PL	P	BL	T	T		S	S			4.0	1	7.4
ICI	D485	IV	PL	W	BL	T	T		MR	S			5.0	1	4.9
LEWIS	349	III	PL	P	BR	T	BR	S	S	S		RPS1a	1.6	1	5.4
LEWIS	360	III	PL	W	BF	G	BR	S	S	S		RPS1a	1.6	1	6.3
LEWIS	390	III	PL	W	BL	T	BR	S	S	S		S	1.4	1	5.8
LEWIS	409	IV	PL	P	BR	T	BR	S	S	S		S	2.0	1	5.4
MEDALLION	M 3909	IV	PL	P	BR	T	BR	S	S	S		S	2.0	1	5.4
MEDALLION	M 4007	IV	PL	P	BL	T	T	S	S	S		S	2.0	1	4.9
MEDALLION	M 4805	IV	PL	P	BL	T	T	S	S	S		S	2.0	1	6.9
MERSCHMAN	ATLANTA III	IV	PL	W	BL	T	BR	S	S	S		S	4.0	1	6.2
MERSCHMAN	MADISON IV	III	PL	W	BR	T	T	S	S	S		S	4.0	1	6.5
MERSCHMAN	NASHVILLE	IV	PL	P	BL	T	BR	S	S	S		S	4.0	1	8.2
MERSCHMAN	PHOENIX	IV	PL	P	G	T	T	S	R	S		S	4.0	1	4.6
MIDLAND	8282	II	PL	P	BL	G	G							1	4.5
MIDLAND	8321	III	PL	P	BL	BR	BR	S	S	S		RPS1k	1.9	1	4.6
MIDLAND	8325	III	PL	P	T	T	T	S	S	S		RPS1k	2.0	1	6.2
MIDLAND	8333STS	III	PL	P	BL	T	T	S	S	S			2.7	1	5.8
MIDLAND	8340	III	PL	W	IB	G	T	S	S	S			3.0	1	5.8
MIDLAND	8355	III	PL	P	IB	G	T	S	S	S			2.8	1	5.5
MIDLAND	8356	III	PL	P	BL	BR	BR	S	S	S				1	5.9
MIDLAND	8371	III	PL	P	BL	T	BR							1	5.0
MIDLAND	8375	III	PL	P	BL	T	T	S	S	S			2.0	1	4.9
MIDLAND	8386STS (EXP 38STS)	III	PL	P	BL	T	T	S	S	S			2.8	1	6.0
MIDLAND	8393	III	PL	P	T	T	T	S	S	S			3.0	1	4.5
MIDLAND	8401CN	IV	PL	W	BL	T	T	S	R	MR	PI88788		2.0	1	3.2
MIDLAND	8410	IV	PL	P	BR	T	T	S	S	S			4.0	1	5.4
MIDLAND	8413	IV	PL	P		BR	T	S	S	S		RPS1c	4.0	1	3.7
MIDLAND	8431	IV	PL	P	BL	T	T	S	S	S		RPS1k	2.0	1	6.1
MIDLAND	8475	IV	PL	W	BL	T	T	S	R	R	FAYETTE		4.0	1	5.3
MIDLAND	8486 (EXP 481)	IV	PL	P	BL	BR	BR	S	S	S			2.0	1	7.2

(CONTINUED)

TABLE 14. DESCRIPTION OF ENTRIES IN 1996 SOYBEAN PERFORMANCE TEST. * (CONTINUED)

BRAND	NAME	MG	VT	FC	HI	PU	PB	SCN				PHYTO				
								R1	R3	R14	SOURCE	RR	TOL	SHAT	FE	
MIDLAND	8487NB (EXP 48N)	IV	B	M	BL	M	M	S	MR	MR	FAYETTE		3.0	1	5.8	
MIDLAND	XP283	II	PL	P	BL	G	G							1	6.0	
MIDLAND	XP411	IV	PL	W	BL	T	BR							1	6.0	
MSG	2930	II	PL	W	BR	T	BR						2.0	2	6.5	
MSG	G 2804 (X804)	II	B	W	BR	T	T					RPS1a	3.0	2	5.6	
MSG	G 3555	III	PL	P	BL	BR	BR					RPS1a	2.8	1	4.4	
MSG	G 3626	III	PL	W	BF	G	BR					RPS1a	2.0	1	5.9	
MSG	G 3996 (OHLDE 3996)	III	PL			T	BR					RPS1a	2.5	1	5.4	
MSG	G 4320	IV	PL	P	BL	T	T		R	R	PI88788		1.8	1	3.8	
MSG	G 5023N	V	PL	W	BL	T	T		R		PI88788		1.5	1	5.3	
MSG	O 4440 (OHLDE)	IV	PL	P	BL	T	BR						2.0	1	6.3	
MYCOGEN	395	III	PL	P	BL	T	T	S	S	S			2.0	1	4.7	
MYCOGEN	429	IV	PL	W	BF	G	BR	S	R	R	PI88788	RPS1a	3.0	1	5.4	
MYCOGEN	470	IV	PL	P	BL	T	BR	S	S	S			4.0	1	7.0	
MYCOGEN	J-399	III	PL					S	S	S			2.0	1	5.7	
NC+	3A67	III	PL	W	BF	G	BR					RPS1a	3.0	1	5.8	
NC+	3A75	III	PL	P	BL	T	T						2.0	1	6.0	
NC+	3A96	III	PL	W	BF	F	BR		R	R	PI88788	RPS1c	2.0	1	4.4	
NC+	4A10	IV	PL	P	BR	T	T						3.0	1	5.7	
NC+	4A27	IV	PL	P	BF	BR	BR		R	R	PI88788		3.0	1	3.4	
NC+	4A47	IV	PL	P	BL	T	BR						3.0	1	6.7	
NC+	5A15	V	PL	W	BF	T	T		R	R	PI88788		3.0	1	4.8	
NC+	5A44	V	PL	P	IB	G	T		R	R	PI88788		3.0	1	6.0	
NECO	7446	IV	PL	W	Y	G	BR	S	S	S				1	3.6	
NORTHROP KING	S30-06	III	PL	P	G	G	BR	S	S	S			4.0	1	4.4	
NORTHROP KING	S35-35	III	PL	P	BL	T	T	S	S	S		RPS1c	2.0	1	4.9	
NORTHROP KING	S39-41	IV	PL	P	BL	T	T	S	S	S		RPS1k	1.0	1	5.2	
NORTHROP KING	S42-60	IV	PL	P	BR	T	T	S	S	S			3.0	1	6.8	
NORTHROP KING	S46-44	IV	PL	P	BL	T	BR		R	R		RPS1c	4.0	1	5.9	
NORTHROP KING	S52-25	V	PL	W	BL	T	BR		R	R		RPS1c	2.0	1	6.1	
NORTHROP KING	S57-11	V	PL	P	BL	T	BR		R	MR		RPS1c	2.0	1	2.4	
PATRIOT	390	III	PL	P	BR	T	BR	S	S	S			1.6	1	4.6	
PATRIOT	391	III	PL	P	BL	T	T	S	S	S		RPS1a	1.0	1	5.4	
PATRIOT	457N	IV	PL	W	BL	T	T	S	R	R	FAYETTE		2.0	1	6.4	
PATRIOT	482N	IV	PL	W	BL	BR	T	S	R	S	PI88788	RPS1a	2.3	1	4.7	
PATRIOT	530N	V	PL	W	BL	T	T	S	R	S	PI88788		2.0	1	5.5	
PATRIOT	555N	V	PL	W	BL	T	T	S	R	S	PI88788		1.5	1	6.2	
PATRIOT	7372N	III	PL	W	BL	BR	T	S	R	R	PI88788		1.7	1	4.8	
PATRIOT	7430N	IV	PL	P	BL	T	BR	S	R	MR	PI88788		1.2	1	5.2	
PATRIOT	7459N	IV	PL	P	BL	T	T	S	R	R	PI88788		1.5	1	3.4	
PATRIOT	7520N	V	PL	P	BL	T	BR	S	R	S	PI88788		2.0	1	5.3	
PIONEER	9321	III	PL	P	BR	T	BR						5.0	1	5.3	
PIONEER	9333	III	PL	P	BL	T	BR					RPS1k	2.0	1	4.4	
PIONEER	9343	III	PL	W	BL	T	BR						4.0	1	4.2	
PIONEER	9362	III	PL	W	BF	G	BR		R	R		RPS1c	4.0	1	7.2	
PIONEER	9381	III	PL	W	BL	T	T						5.0	1	5.6	
PIONEER	9391	III	PL	P	BL	T	T					RPS1c	2.0	1	5.0	
PIONEER	9393	III	PL	P	BL	T	T					RPS1k	2.0	1	4.7	
PIONEER	9395	III	PL	W	BL	T	T						3.0	1	4.0	
PIONEER	9412	IV	PL	P	BL	T	T						5.0	1	4.8	
PIONEER	9421	IV	PL	W	BL	T	T						2.0	1	3.8	
PIONEER	9481	IV	PL	W	BL	T	T		R	MR				1	5.5	
PIONEER	9491	IV	PL	W	BR	T	BR		R	R				1	2.3	
PIONEER	9521	IV	PL	P	BL	T	T	R	R				RPS1c	4.0	1	6.1
STAR	BLAZER	III												1	4.5	
STAR	BOUNTY STS	III	PL	P	BL	T	BR							1	5.2	
STAR	CELEBRITY	III	PL	P	BL	BR	T							1	4.5	
STAR	EXPRESS II	III	PL	P	BF	G	T							1	5.6	
STAR	GALAXY	III	PL	P	BR	T	T							1	5.7	
STAR	QUEST	III	PL	W	BF	G	BR							1	5.8	
STINE	3171	III	PL	P	IB	G	BR	S	S	S		RPS1a	5.0	1	6.6	
STINE	3470	III	PL	P	BR	T	BR	S	S	S			6.0	1	5.0	

(CONTINUED)

TABLE 14. DESCRIPTION OF ENTRIES IN 1996 SOYBEAN PERFORMANCE TEST. * (CONTINUED)

BRAND	NAME	MG	VT	FC	HI	PU	PB	SCN				PHYTO				
								R1	R3	R14	SOURCE	RR	TOL	SHAT	FE	
STINE	3480	III	PL	W	BR	T	BR	S	S	S			4.0	1	6.0	
STINE	3660	III	PL	W	BR	T	BR	S	S	S		RPS1a	5.0	1	6.6	
STINE	3786	III	PL	P	M	M	BR	S	S	S				1	4.0	
STINE	3870	III	PL	P	BL	T	BR	S	S	S		RPS1a	4.0	1	5.8	
STINE	4650	IV	PL	P	BL	T	BR	S	S	S			3.0	1	6.7	
STINE	4680	IV	PL	P	BR	T	BR	S	S	S			4.0	1	5.6	
TAYLOR	395	III	PL			T		S	S	S			1.7	1	5.6	
TAYLOR	399	III	PL			T		S	S	S			1.8	1	4.9	
TAYLOR	454	IV	PL			T		S	S	S			2.5	1	6.4	
TAYLOR	EXP 93T355	III	PL			T		S	S	S		RPS1a	2.5	1	5.6	
TERRA	TS364	III	PL	W	BF	G	BR	S	S	S		RPS1a	5.0	1	5.5	
TERRA	TS393	III	PL	P	BR	T	T	S	S	S		RPS1a	5.0	1	6.1	
TERRA	TS402	IV	PL	P	BR	T	T	S	S	S			3.0	2	5.4	
TERRA	TS415	IV	PL	M	M	T	BR	S	S	S		RPS1a	4.0	1	5.4	
TERRA	TS4292 (E4292)	IV	PL	W	BF	G	BR	S	R	R			5.0	1	5.1	
TERRA	TS474 (E474)	IV	PL	P	BL	T	BR	S	S	S			3.0	1	6.2	
TERRA	TS4792 (E4792)	IV	PL	P	BL	BR	T	S	R	R			3.0	1	5.7	
TERRA	TS5504	V	PL	W	BL	T	T	S	R	S			2.0	1	5.4	
WILLCROSS	92A	III	PL	P	BL	T	T	S	S	S				1	5.4	
WILLCROSS	92B	III	PL	P	BL	T	T	S	S	S				1	5.2	
WILLCROSS	9435A	III	PL	W	BL	T	T	S	S	S				1	5.0	
WILLCROSS	9435B	III	PL	W	BL	T	T	S	S	S				1	5.2	
WILLCROSS	9447A	IV	PL	P	BL	T	BR	S	S	S				1	7.1	
WILLCROSS	9447B	IV	PL	P	BL	T	BR	S	S	S				1	7.0	
WILLCROSS	9531	III	PL	P	BL	T	BR	S	S	S				2	5.3	
WILLCROSS	9536	III	PL	P	BR	T	BR	S	S	S				1	6.3	
WILLCROSS	9540A	III	PL	P	BL	T	T	S	S	S				1	4.7	
WILLCROSS	9540B	III	PL	P	BL	T	T	S	S	S				1	4.4	
WILLCROSS	9541N	IV	PL	W	BF	G	BR		R					1	3.5	
WILLCROSS	9547N	IV	PL	P	BL	BR	T		R					1	5.4	
WILLCROSS	9635	III	PL	W	BF	G	BR	S	S	S				1	6.1	
WILLCROSS	9639	III	PL	W	M	T	BR	S	S	S				1	4.8	
WILLCROSS	9640	IV	PL	M	M	T	BR	S	S	S				1	5.4	
WILLCROSS	9644N	IV	PL	W	BL	T	T		R	R				1	4.0	
WILLCROSS	9650N	IV	PL	W	BL	T	T		R					1	5.1	
WILSON	3670	III	PL	P	BR	T	BR	S	S	S		RPS1a	1.8	1	5.6	
WILSON	4010	IV	PL	P	BR	T	BR	S	S	S			3.2	1	5.6	
														LSD (.1)		0.5
														CV (%)		9.4

* MG = MATURITY GROUP; VT = VARIETY TYPE, PL = PURE LINE, B = BLEND; FC = FLOWER COLOR; P = PURPLE; W = WHITE, M = MIXED; HI = HILUM COLOR; BL = BLACK; IB = IMPERFECT BLACK; BR = BROWN; BF = BUFF; G = GREY; Y = YELLOW, M = MIXED; PU = PUBESCENCE COLOR; T = TAWNY; BR = BROWN; G = GREY; PD = POD COLOR; BR = BROWN; T = TAN; SCN = SOYBEAN CYST NEMATODE; R1, R3, AND R14 = RACE 1, 3, AND 14, RESPECTIVELY; S = SUSCEPTIBLE, R = RESISTANT; MR = MODERATELY RESISTANT; PHYTO = PHYTOPHTHORA ROOT ROT; RR = RACE RESISTANT; RPS1a-etc, INDICATE MAJOR GENES FOR RESISTANCE; TOL = FIELD TOLERANCE SCORE WITH 1 = EXCELLENT TO 9 = POOR; SHAT = SHATTERING, 1 = NO SHATTERING, 2 = 1 TO 10% SHATTERING; FE = IRON CHLOROSIS SCORE, 1 = NO CHLOROSIS TO 9 = SEVERE CHLOROSIS. ALL INFORMATION EXCEPT SHATTERING AND CHLOROSIS SCORES SUPPLIED BY ENTRANT.

(CONTINUED)

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