

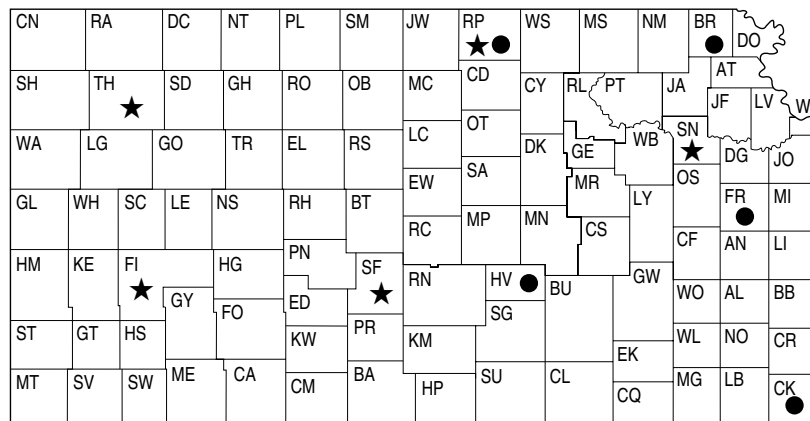


**KSTATE**  
Kansas State University

# 1997

KANSAS PERFORMANCE TESTS WITH

# SOYBEAN VARIETIES



● dryland                      ★ irrigated

Report of Progress 798

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## 1997 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 14 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 13. Relative yields of each entry from all locations are shown in Table 14. Results of the tests can also be found at the Kansas crop performance tests' homepage: <http://www.ksu.edu/kscept>.

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 5 years is included in Table 13 (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.

## 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 since 1994 has been 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 can 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 can 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.

## 1997 ENVIRONMENTAL FACTORS

**Brown County:** Dry conditions prevailed throughout the growing season. Total rainfall was over 8 inches below normal for May through September, but timely rains in July and August resulted in yields of 40 to 50 bushel per acre.

**Shawnee County:** This test was relocated to the Topeka Unit of the Kansas River Valley Experiment Field because the Rossville site was infested with soybean cyst nematode. Rainfall amounts were below average

throughout the season, but supplemental irrigation resulted in a few entries yielding 80 bushels per acre.

Franklin County: Growing conditions during the season were generally favorable, with below average rainfall amounts, but timely moisture.

Cherokee County: Good growing conditions existed throughout most of the season. Moderate lodging occurred in specific entries in maturity groups III, IV, and V. At the soybean cyst nematode (SCN) site, SCN populations continued to be high. High yielding, SCN resistant entries reached 40 bushels per acre in seed yields.

Republic County: Both the Belleville and Scandia locations experienced a dry growing season. The drought stress at Belleville resulted in a wide range in yields, but the three supplemental irrigations at the Scandia site resulted in high yields.

Harvey County: Rainfall amounts were above average during most of the season, with a few brief periods of drought stress. Although seed yields were not as high as last season, yields around 50 bushels per acre by the top entries represented an excellent level of productivity at this location.

Stafford County: Cool conditions occurred from planting through June. Overall, growing conditions were good, and harvest conditions were excellent.

Thomas County: This irrigated site generally produces some of the highest yields in the performance tests. Conditions again this season were favorable for high yields

Finney County: Rainfall during the season exceed the long-term average. Growing conditions were good, with few iron chlorosis problems observed in the field. A *Rhizobium* inoculant was applied to the seed at planting to ensure good nodulation.

TABLE 1. SUMMARY OF ENTRANTS AND ENTRIES IN PERFORMANCE TESTS

ENTRANT	BRAND OR ENTRY
Illinois A.E.S. and USDA-ARS	Hamilton, Macon, Williams 82
Indiana A.E.S. and USDA-ARS	Probst
Iowa A.E.S.	IA2022
Kansas A.E.S.	Crawford, K1235, K1276, K1277, K1307, KS3494, KS4694, KS4895, KS4997, KS5292
Maryland A.E.S.	Manokin
Missouri A.E.S.	Delsoy 4710, Delsoy 5500, Hartwig
North Carolina A.E.S.	Holladay
Ohio A.R.D.C. and USDA-ARS	Edison, Flyer, Stressland, Resnik, Sherman
Virginia A.E.S.	Essex, Hutcheson, Stafford
AgriPro Seeds, Inc. (AgriPro) 23959 580th Ave. Ames, IA 50010 phone: 800-373-1741	AP3868, AP 3880, AP4400, AP 4500
Advanced Genetics Box 504 Beloit, KS 67420 phone: 785-738-5775	Blazer, Celebrity, Express II, Galaxy, Legacy II, Quest
Asgrow Seed Co. (Asgrow) 2605 E. Kilgore Kalamazoo, MI 49001 phone: 616-384-5548	A3244, A3834, A3904, A4341, A4922, A5547
Dekalb Genetics Corp. (Dekalb) 3100 Sycamore Rd. Dekalb, IL 60115 phone: 815-758-3461	CX348, CX351, CX368, CX373, CX377, CX399, CX411, CX434, CX445, CX450C, CX494, CX510C
DeLange Seed House, Inc. P.O. Box 7 (DeLange) Girard, KS 66743 phone: 316-724-6223	DS-390, DS-410, DS-454, DS-466, DS-485
Pueblo Chemical Co. (Dyna-Gro) P.O. Box 1279, 2502 John St. Garden City, KS 67846 phone: 316-275-6127	3367, 3368, 3378N, 3395, 3444N
Fontanelle Hybrids (Fontanelle) 10981 8 St. Nickerson, NE 68044-9706 phone: 402-721-1410	3373(EXP9474), 6104
Freedom Seed Co. (Freedom) US Rte.24 East Astoria, IL 61501 phone: 309-759-4480	4355, 4437
Garst Seed Co. (Garst) 2369 330th St. Slater, IA 50244 phone: 515-685-3574	D454, D473, EX 7357, EX 7398, EX 7470N, SC 400
The J.C. Robinson Seed Co. (Golden Harvest) 100 J.C. Robinson Blvd. P.O. Box A Waterloo, NE 68069 phone: 800-228-9906	H-1353, H-1388, H-1454, H-1500, X-487
Hamon Seed Farms (Hamon) 5557 190th St. Valley Falls, KS 66088 phone: 785-945-3584	H-447
Hoegemeyer Hybrids (Hoegemeyer) 1755 Hoegemeyer Rd. Hooper, NE 68031 phone: 402-654-3399	312, 365, 380, 401, 435, 471 SCN
Hornbeck Seed Co., Inc. P.O. Box 472 (Hornbeck) Dewitt, AR 72042 phone: 501-946-2087	HBK 4600

TABLE 1. SUMMARY OF ENTRANTS AND ENTRIES IN PERFORMANCE TESTS

ENTRANT	BRAND OR ENTRY
Lewis Hybrids, Inc. (Lewis) P.O. Box 38, West Maple St. Ursa, IL 62376 phone: 217-964-2131	349, 360, 390
Merschman Seeds (Merschman) 103 Ave. D West Point, IA 52656 phone: 800-848-7333	Atlanta III, Eisenhower IV, Fillmore IV, Madison V, Richmond IV
Midland Seeds Inc. (Midland) 1906 Kingman Rd. Ottawa, KS 66067 phone: 785-242-3598	8282(XP282), 8321(XP321), 8333STS(XP333STS), 8355, 8356, 8371(XP371), 8375, 8377RR, 8386STS, 8393, 8397RR, 8401, 8410, 8413, 8431(XP431), 8433RR, 8475, 8486, 8487NB, XP 291RR, XP 341RR, XP 342RR, XP 361RR, XP362, XP381RR, XP 391, XP 412, XP 414, XP 521N, XP 530N
Midwest Seed Genetics P.O. Box 518 (MSG/Ohlde) Carroll, IA 51401 phone: 712-792-6691	G 3141, G 3242, G 3300, G 3608RR, G 3996, G 4555, O 4440
Missouri Seed Improvement Association (MSIA) 3211 Lemone Industrial Blvd. Columbia, MO 65201-8245 phone: 573-449-0586	Magellan, Maverick, Mustang
Mycogen Seeds (Mycogen) RR #1 Box 22A York, NE 68467 phone: 402-362-3094	429, 5373, 5404
NC+ Hybrids (NC+) Box 4408 Lincoln, NE 68504 phone: 402-467-2517	2A91, 3A25, 3A44, 3A67, 4A10, 4A27, 4A47, 5A15, 5A44
NeCo Seed Farms, Inc. (NeCo) P.O. Box 379 Garden City, MO 64747 phone: 816-862-8203	7446
Novartis Seeds Inc. (Novartis) 1060 Wheatland Dr. Buhler, KS 67522 phone: 316-543-2707	57-11, 3474, 3505, S33-P2, S36-Q6, S38-L5, S42-60, S43-B5, S46-44
Patriot Seed Co. (Patriot) 208 S. Worrell Box 97 Bowen, IL 62316 phone: 217-842-5612	380, 383N, 388, 391, 398, 412N, 452N, 457N, 482N, 488
Pioneer Hi-Bred Int'l., Inc. 1616 S. Kentucky, (Pioneer) Suite C-150 Amarillo, TX 79102 phone: 806-356-0160	93B51, 93B82, 93B83, 94B01, 94B41, 9352, 9362, 9395, 9396, 9412, 9421, 9492, 9521
Stine Seed Co. (Stine) 2225 Laredo Trail Adel, IA 50003 phone: 515-677-2605	3290, 3660, 3683, 3870, 3883, 4292, 4562, 4650, 4680
Taylor Seed Farms, Inc. (Taylor) RR2 Box 27A White Cloud, KS 66094 phone: 785-595-3236	355, 395, 396, 454, 470
Terra Industries Inc. (Terra) P.O. Box 6000 Sioux City, IA 51102-6000 phone: 712-233-3609	E364T, E387, TS415(E415), TS474(E474), TS504, TS4792(E4792)
Midland Seed Development (Willcross) P.O. Box 379 Garden City, MO 64747 phone: 816-862-8203	AP-40N, 92, 357, 397, 398, 407, 467, 517, 9447, 9536, 9539N+, 9541N, 9639, 9640, 9644N, 9650N, 9738, 9741
Wilson Seeds, Inc. (Wilson) P.O. Box 391 Harlan, IA 51537 phone: 712-755-3841	3380, 3670

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

TABLE 2. LOCATIONS, CULTURAL PRACTICES, AND RAINFALL FOR 1997 SOYBEAN PERFORMANCE TESTS.

COUNTY: DRYLAND						
ITEM	BROWN	FRANKLIN	CHEROKEE	CHEROKEE*	REPUBLIC	HARVEY
Cooperator	B. Marsh (785) 474-3469	K. Janssen (785) 242-5616	J. Long (316) 421-4826	J. Long (316) 421-4826	B. Gordon (785) 335-2836	M. Claassen (316) 327-2547
Station or field	Powhattan	Ottawa	Columbus	Columbus	Belleville	Hesston
Soil: Texture	Silty clay loam	Silt loam	Silt loam	Silt loam	Silt loam	Silt loam
PH	6.3	6.1	6.6	---	6.5	6.4
Organic matter (%)	3.0	2.5	---	---	2.4	2.2
P test	H	---	M	---	M	H
K test	H	---	L	---	VH	VH
Planting date	5/14	6/9	6/10	6/21	5/13	5/13
Herbicides** (per acre)	2.5 pt. Broadstrike + Dual	2.33 pt. Tri-Scept	3.0 pt. Squad.	3.0 pt. Squad.	.5 lb. Sencor 1.5 pt. Prowl	1 qt. Detail
Fertilizers (lbs/a)	none	none	12N, 48P, 48K	none	none	13N, 32P, 0K
Test avg. (bu/a)						
MG II						
MG III	44.1(9.5)***	45.3 (6.4)	47.1 (8.1)		36.3 (11.9)	42.9 (13.5)
MG IV	43.0 (10.0)	44.3 (5.8)	52.6 (8.0)		33.3 (13.4)	42.3 (12.7)
MG V			51.0 (7.7)	37.9 (9.3)		
Row length (ft)	25	28	14	14	20	25
Seeding rate (seeds/ft.)	8	8	8	8	10	8
Rows harvested	2	2	2	2	2	2
Rainfall (R) or Irrigation (I)	R	R	R	R	R	R
April	5.40	1.81	1.15	1.15	3.30	3.24
May	3.33	7.61	6.65	6.65	1.30	6.26
June	2.10	2.33	5.30	5.30	2.70	4.88
July	4.02	3.82	6.55	6.55	2.70	5.46
August	3.43	4.47	5.50	5.50	2.20	3.68
September	<u>1.75</u>	<u>4.82</u>	<u>4.55</u>	<u>4.55</u>	<u>3.50</u>	<u>3.78</u>
Total	20.03	24.86	29.70	29.70	15.70	27.30

\* Soybean Cyst Nematode-infested location.

\*\* Squad. = Squadron, Scep. = Sceptor, Tref. = Treflan, Pur. = Pursuit.

\*\*\* Coefficient of variability.

(CONTINUED)



TABLE 2. LOCATIONS, CULTURAL PRACTICES, AND RAINFALL FOR 1997 SOYBEAN PERFORMANCE TESTS. (CONTINUED)

ITEM	COUNTY: IRRIGATED									
	SHAWNEE		REPUBLIC		STAFFORD		FINNEY		THOMAS	
Cooperator	L. Maddux (785) 354-7236		B. Gordon (785) 335-2836		V. Martin (316) 549-3345		M. Witt (316) 276-8286		P. Evans (785) 462-6281	
Station or field	Topeka		Scandia		St. John		Garden City		Colby	
Soil: Texture	Silt loam		Silt loam		Sandy loam		Silt loam		Silt loam	
PH	6.6		6.5		6.5		7.8		7.4	
Organic matter (%)	1.7		2.1		0.6		1.2		1.7	
P test	M		M		H		---		---	
K test	H		VH		H		---		---	
Planting date	5/14		5/13		6/9		5/13		5/20	
Herbicides** (per acre)	1 qt. Tref 2.8 oz. Scep. DG		2.5 pt. Pur. Plus		1 qt. Dual 4 oz. Pur.		2.5 pt. Pur. Plus		1.5 pt. Tref.	
Fertilizers (lbs/a)	none		none		0N, 23P, 0K		18N, 46P, 0K		30N, 28P, 0K	
Test avg. (bu/a)										
MG II									68.1 (5.0)	
MG III	67.0 (10.8)		69.3 (5.6)		43.6 (12.3)		51.7 (16.5)		72.7 (6.8)	
MG IV	63.7 (8.3)		64.8 (5.4)		45.7 (9.3)		53.0 (21.4)			
MG V										
Row length (ft)	16		25		25		20		20	
Seeding rate (seeds/ft.)	7		12		7		10			
Rows harvested	2		2		2		4		2	
Rainfall (R) or Irrigation (I)	R	I	R	I	R	I	R	I	R	I
April	2.94		2.00		3.00		1.30		0.55	
May	2.32		1.20		1.90		4.49		0.58	4.00
June	1.49		2.20		6.00		5.55		2.70	
July	2.61	3.50	2.10	6.00	3.70	6.75	1.10	10.00	3.69	6.00
August	4.60	1.60	2.90	2.50	2.30	1.75	6.93		4.29	3.00
September	<u>1.83</u>	—	<u>1.90</u>	—	<u>2.77</u>	<u>1.00</u>	<u>0.80</u>	<u>5.00</u>	<u>1.29</u>	—
Total	15.79	5.10	12.3	8.5	19.67	9.50	20.17	15.00	13.10	13.00

\* Soybean Cyst Nematode-infested location.

\*\* Squad. = Squadron, Scep. = Sceptor, Tref. = Treflan, Pur. = Pursuit.

\*\*\* Coefficient of variability.

TABLE 3. BROWN COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1994-1997.

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT SCORE	LODGING IN	
		1997	1996	1995	1994	2-Yr	3-Yr	4-Yr	1997	1996	1995	1994			
MATURITY GROUPS II-III															
	IA2022	43.6	63.1	---	---	53.3	---	---	99	101	---	---	-14	1.0	27
	KS3494	45.6	58.3	19.8	38.9	52.0	41.2	40.6	103	93	107	101	-8	1.0	26
PATRIOT	388	45.0	---	---	---	---	---	---	102	---	---	---	-8	1.0	28
ASGROW	A3244	47.8	70.1	---	---	59.0	---	---	108	112	---	---	-8	1.0	24
	RESNIK	40.7	57.3	13.0	37.4	49.0	37.0	37.1	92	92	70	97	-8	1.0	24
	PROBST	43.0	59.8	20.0	39.4	51.4	40.9	40.6	98	95	108	102	-8	1.3	27
	365	45.1	65.0	23.1	39.5	55.0	44.4	43.2	102	104	124	102	-8	1.3	26
HOEGEMEYER	3373 (EXP9474)	38.1	58.4	---	---	48.2	---	---	86	93	---	---	-8	1.3	23
FONTANELLE	FILLMORE IV	50.6	---	---	---	---	---	---	115	---	---	---	-8	1.0	27
MERSCHMAN	9536	43.4	64.1	---	---	53.7	---	---	99	102	---	---	-8	1.0	25
WILLCROSS	XP362	49.3	---	---	---	---	---	---	112	---	---	---	-8	1.3	26
MIDLAND	S36-Q6	46.6	---	---	---	---	---	---	106	---	---	---	-8	1.0	28
STINE	3660	49.0	71.0	28.8	37.7	60.0	49.6	46.6	111	113	155	98	-8	1.0	26
PIONEER	93B51	39.4	---	---	---	---	---	---	89	---	---	---	-6	1.0	25
PIONEER	9395	44.7	62.7	---	---	53.7	---	---	101	100	---	---	-6	1.0	26
TERRA	E364T	46.0	---	---	---	---	---	---	104	---	---	---	-6	1.0	25
DEKALB	CX351	43.4	---	---	---	---	---	---	98	---	---	---	-6	1.0	27
TAYLOR	355	43.9	---	---	---	---	---	---	100	---	---	---	-6	1.0	27
DYNA-GRO	3367	42.2	---	---	---	---	---	---	96	---	---	---	-6	1.0	23
PATRIOT	398	42.9	---	---	---	---	---	---	97	---	---	---	-4	1.3	31
PATRIOT	380	45.7	---	---	---	---	---	---	104	---	---	---	-4	1.0	29
	EDISON	40.2	60.1	21.5	39.1	50.1	40.6	40.2	91	96	116	101	-4	1.0	24
MYCOGEN	5373	45.5	---	---	---	---	---	---	103	---	---	---	-4	1.0	26
ADVANCED GENETICS	BLAZER	45.8	---	---	---	---	---	---	104	---	---	---	-3	1.0	30
	MACON	45.6	61.8	18.8	---	53.7	42.1	---	103	99	101	---	-3	1.0	25
LEWIS	360	44.3	70.6	---	---	57.5	---	---	100	113	---	---	-3	1.0	25
DEKALB	CX348	46.8	---	---	---	---	---	---	106	---	---	---	-3	1.0	25
HOEGEMEYER	380	47.7	68.1	27.0	38.5	57.9	47.6	45.3	108	109	146	100	-3	1.3	26
MIDLAND	8355	46.0	62.8	16.4	40.7	54.4	41.7	41.5	104	100	88	106	-3	1.0	22
DEKALB	CX373	41.9	---	---	---	---	---	---	95	---	---	---	-2	1.0	28
STINE	3683	44.3	---	---	---	---	---	---	101	---	---	---	-2	1.0	24
ADVANCED GENETICS	EXPRESS II	46.2	62.3	25.1	---	54.2	44.5	---	105	99	135	---	-2	1.0	25
NC+	3A67	43.5	70.9	---	---	57.2	---	---	99	113	---	---	-2	1.0	25
PATRIOT	383N	43.2	---	---	---	---	---	---	98	---	---	---	-2	1.3	26
	SHERMAN	43.0	65.9	26.6	35.4	54.5	45.2	42.7	98	105	143	92	-2	1.0	27
LEWIS	349	44.8	65.7	22.6	---	55.2	44.3	---	102	105	122	---	-1	1.0	25
AGRIPRO	AP 3880	42.1	---	---	---	---	---	---	95	---	---	---	-1	1.3	26
ADVANCED GENETICS	QUEST	46.0	69.4	15.2	---	57.7	43.5	---	104	111	82	---	-1	1.0	24
GARST	EX 7398	49.6	---	---	---	---	---	---	113	---	---	---	-1	1.0	26
MSIA	MAVERICK	42.8	---	---	---	---	---	---	97	---	---	---	-1	2.0	35
PIONEER	9396	39.1	---	---	---	---	---	---	89	---	---	---	0	1.0	25
MIDLAND	8371 (XP371)	46.6	---	---	---	---	---	---	106	---	---	---	0	1.0	26
NC+	3A44	38.4	---	---	---	---	---	---	87	---	---	---	0	1.0	25
WILLCROSS	357	36.1	---	---	---	---	---	---	82	---	---	---	0	1.0	24
DYNA-GRO	3368	39.9	68.1	23.2	42.2	54.0	43.7	43.3	90	109	125	110	0	1.0	26
GOLDEN HARVEST	H-1388	46.0	---	---	42.9	---	---	---	104	---	---	111	2	1.3	27

(CONTINUED)

TABLE 3. BROWN COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1994-1997. (CONTINUED)

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT SCORE	LOGGING IN	
		1997	1996	1995	1994	2-Yr	3-Yr	4-Yr	1997	1996	1995	1994			
MERSCHMAN	EISENHOWER IV	41.4	---	---	---	---	---	---	94	---	---	---	2	1.0	25
MIDLAND	8377RR	38.8	---	---	---	---	---	---	88	---	---	---	2	1.0	22
AGRIPRO	AP 3868	44.9	---	---	---	---	---	---	102	---	---	---	2	1.0	25
NOVARTIS	S38-L5	50.3	---	---	---	---	---	---	114	---	---	---	2	1.0	27
TERRA	E387	42.7	---	---	---	---	---	---	97	---	---	---	2	1.0	25
DYNA-GRO	3395	44.3	65.9	---	---	55.1	---	---	100	105	---	---	2	1.0	26
MIDLAND	WILLIAMS 82	41.1	51.7	23.6	32.0	46.4	38.8	37.1	93	83	127	83	2	1.7	27
FONTANELLE	8393	39.8	60.4	18.1	37.7	50.1	39.5	39.0	90	97	98	98	2	1.3	30
MERSCHMAN	6104	41.4	60.9	19.1	37.1	51.2	40.5	39.6	94	97	103	96	2	1.0	25
MSG(OHLDE)	MADISON V	50.3	---	---	---	---	---	---	114	---	---	---	3	1.0	27
TAYLOR	G 3996	48.5	64.9	18.9	---	56.7	44.1	---	110	104	102	---	3	1.0	25
WILLCROSS	395	46.4	63.7	---	---	55.0	---	---	105	102	---	---	3	1.0	29
LEWIS	92	39.8	62.7	16.9	45.6	51.2	39.8	41.2	90	100	91	118	3	1.0	26
WILLCROSS	390	50.6	62.4	21.6	---	56.5	44.9	---	115	100	116	---	3	1.0	26
WILLCROSS	397	40.4	---	---	---	---	---	---	92	---	---	---	3	1.0	26
WILLCROSS	9738	42.3	---	---	---	---	---	---	96	---	---	---	3	1.0	25
PATRIOT	391	43.1	63.2	---	---	53.2	---	---	98	101	---	---	3	1.7	28
TEST AVERAGES		44.1	62.6	18.5	38.5										
LSD (.10)		5.7	4.0	4.8	3.9										
MATURITY GROUP IV															
MYCOGEN	429	41.4	59.8	---	---	50.6	---	---	96	99	---	---	-1	1.0	26
FLYER	401	41.3	61.5	18.2	37.8	51.4	40.3	39.7	96	102	89	95	9/26	1.0	29
HOEGEMEYER	401	44.4	70.3	15.9	40.6	57.3	43.5	42.8	103	116	77	102	2	1.0	28
WILLCROSS	AP-40N	42.9	---	---	---	---	---	---	100	---	---	---	2	1.0	29
NC+	4A10	43.5	---	26.0	40.0	---	---	---	101	---	127	100	3	1.0	28
NOVARTIS	HAMILTON	43.6	55.8	13.3	39.4	49.7	37.5	38.0	101	92	65	99	3	1.3	30
S42-60	8410	40.9	61.3	24.6	41.5	51.1	42.2	42.1	95	101	120	104	3	1.0	29
MIDLAND	8410	44.7	63.9	15.8	46.8	54.3	41.5	42.8	104	106	77	117	3	1.0	27
GARST	D454	42.7	68.7	---	---	55.7	---	---	99	114	---	---	3	1.0	31
HAMON	H-447	45.3	---	---	---	---	---	---	105	---	---	---	3	1.3	32
DEKALB	CX411	43.9	64.3	20.1	41.9	54.1	42.8	42.6	102	106	98	105	3	1.0	25
WILLCROSS	9741	46.5	---	---	---	---	---	---	108	---	---	---	3	1.0	25
HOEGEMEYER	435	42.4	59.9	24.7	---	51.1	42.3	---	98	99	121	---	3	1.0	30
NOVARTIS	S43-B5	42.9	---	---	---	---	---	---	100	---	---	---	3	1.0	28
TERRA	TS415 (E415)	47.2	---	---	---	---	---	---	110	---	---	---	3	1.3	28
MYCOGEN	5404	42.2	---	---	---	---	---	---	100	---	---	---	3	1.0	30
STRESSLAND	40.7	58.4	17.5	40.4	49.6	38.9	39.3	39.3	95	97	85	101	3	1.7	30
MSIA	MAGELLAN	45.5	---	---	---	---	---	---	106	---	---	---	4	1.3	30
MSIA	MUSTANG	42.2	---	---	---	---	---	---	98	---	---	---	4	1.0	34
K1235	41.5	52.5	20.5	46.4	47.0	38.2	40.2	40.2	97	87	100	116	5	1.0	27
MSG(OHLDE)	O 4440	44.4	---	28.7	44.1	---	---	---	103	---	140	111	5	1.0	34
KS4694	39.9	50.9	22.9	38.4	45.4	37.9	38.0	38.0	93	84	112	96	5	1.0	29
TERRA	TS474 (E474)	39.7	---	---	---	---	---	---	92	---	---	---	11	1.3	31
TEST AVERAGES		43.0	60.4	20.5	39.9										
LSD (.10)		5.9	4.7	4.3	2.9										
LSD (.1 BETWEEN MATURITY GROUPS)															
MATURITY IS MEASURED AS DAYS EARLIER OR LATER THAN FLYER															
LOGGING SCORE IS BASED ON 1-5 SCALE WITH 1=EXCELLENT, 5=POOR															

TABLE 4. SHAWNEE COUNTY SOYBEAN PERFORMANCE (IRRIGATED), 1993-1997.

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT LODGING SCORE	IN	
		1997	1995	1994	1993	2-Yr	3-Yr	4-Yr	1997	1995	1994	1993			
MATURITY GROUPS II-III															
HOEGEMEYER	IA2022	64.4	---	---	---	---	---	---	---	---	---	---	---	---	---
ADVANCED GENETICS	365	59.0	53.7	63.4	43.0	56.3	58.7	54.8	96	95	103	89	-14	1.7	45
NOVARTIS	S33-P2	63.0	---	---	---	---	---	---	103	---	---	---	-7	1.8	50
MIDLAND	8355	62.7	---	54.2	---	---	---	---	94	---	88	---	-6	1.0	34
TAYLOR	355	72.9	---	---	---	---	---	---	109	---	---	---	-5	1.5	44
MIDLAND	RESNIK	80.2	53.2	54.7	37.5	66.7	62.7	56.4	120	94	89	78	-5	1.7	39
STINE	KS3494	80.8	59.1	61.1	53.9	70.0	67.0	63.7	121	105	99	112	-5	1.7	44
HOEGEMEYER	XP341RR	54.0	---	---	---	---	---	---	81	---	---	---	-5	2.3	44
TERRA	3883	62.8	---	---	---	---	---	---	94	---	---	---	-5	1.7	47
PATRIOT	SHERMAN	57.0	57.9	55.4	60.3	57.5	56.8	57.7	85	102	90	125	-4	3.7	45
	380	73.6	58.0	61.9	54.8	65.8	64.5	62.1	110	103	100	114	-4	2.0	43
	E364T	72.8	---	---	---	---	---	---	109	---	---	---	-4	1.5	43
	380	60.1	---	---	---	---	---	---	90	---	---	---	-3	1.5	46
	MACON	69.9	56.5	---	---	63.2	---	---	104	100	---	---	-3	1.5	44
	PROBST	57.8	52.2	57.3	---	55.0	55.7	---	86	92	93	---	-3	2.7	45
PIONEER	93B51	68.6	---	---	---	---	---	---	102	---	---	---	-3	2.0	43
MIDLAND	8371 (XP371)	70.1	---	---	---	---	---	---	105	---	---	---	-3	2.2	44
MIDLAND	XP362	67.6	---	---	---	---	---	---	101	---	---	---	-3	1.2	42
MIDLAND	XP361RR	63.9	---	---	---	---	---	---	95	---	---	---	-2	1.8	44
STINE	3290	57.0	---	---	---	---	---	---	85	---	---	---	-2	1.5	38
PATRIOT	398	50.4	---	---	---	---	---	---	75	---	---	---	-2	2.0	48
PIONEER	9395	61.3	---	---	---	---	---	---	91	---	---	---	-1	2.2	45
DEKALB	EDISON	76.4	54.9	61.8	35.3	65.6	64.3	57.1	114	97	100	73	-1	1.3	44
WILLCROSS	CX368	72.1	64.3	---	---	68.2	---	---	108	114	---	---	-1	1.5	45
WILLCROSS	92	70.5	55.9	60.7	50.8	63.2	62.4	59.5	105	99	98	106	-1	1.8	46
WILLCROSS	DEKALB	62.8	59.8	---	---	61.3	---	---	94	106	---	---	-1	1.8	46
WILLCROSS	9536	72.3	---	---	---	---	---	---	108	---	---	---	-1	1.5	41
WILLCROSS	MIDLAND	64.1	---	---	---	---	---	---	96	---	---	---	-1	1.7	42
WILLCROSS	8377RR	65.6	---	---	---	---	---	---	98	---	---	---	0	1.3	42
WILLCROSS	398	71.2	---	---	---	---	---	---	106	---	---	---	0	1.7	47
WILLCROSS	388	69.7	59.4	---	---	64.5	---	---	104	105	---	---	0	1.3	42
ASGROW	A3834	58.0	---	---	---	---	---	---	87	---	---	---	0	1.8	45
DYNA-GRO	3378N	69.5	---	---	---	---	---	---	104	---	---	---	0	2.7	45
DYNA-GRO	3395	67.2	62.8	67.1	---	65.0	65.7	---	100	111	109	---	0	1.7	42
STINE	3660	61.6	56.5	67.9	---	59.0	62.0	---	92	100	110	---	0	2.2	44
DYNA-GRO	3368	77.4	64.4	66.2	42.1	70.9	69.3	62.5	116	114	107	87	0	2.3	41
GOLDEN HARVEST	H-1353	74.8	---	---	---	---	---	---	112	---	---	---	0	1.7	42
MSG(OHLDE)	G 3608RR	64.1	---	---	---	---	---	---	96	---	---	---	0	1.5	44
WILLCROSS	9738	69.2	---	---	---	---	---	---	103	---	---	---	0	1.5	45
WILLCROSS	397	61.9	---	---	---	---	---	---	92	---	---	---	0	2.2	46
STINE	3870	66.9	---	---	---	---	---	---	100	---	---	---	1	2.3	44
MYCOGEN	5373	69.5	---	---	---	---	---	---	104	---	---	---	1	2.2	44
MIDLAND	8386STS	68.3	---	---	---	---	---	---	102	---	---	---	1	1.2	42
WILLCROSS	9639	65.4	---	---	---	---	---	---	98	---	---	---	1	1.7	51
MSIA	MAVERICK	58.6	48.2	53.1	53.2	53.4	53.3	53.3	88	85	86	111	1	2.3	49
ADVANCED GENETICS	WILLIAMS 82	53.0	59.0	---	---	56.0	---	---	79	104	---	---	1	2.3	41
EXPRESS II															

(CONTINUED)

TABLE 4. SHAWNEE COUNTY SOYBEAN PERFORMANCE (IRRIGATED), 1993-1997. (CONTINUED)

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE					MAT LODGING SCORE	HT IN	
		1997	1995	1994	1993	2-Yr	3-Yr	4-Yr	1997	1995	1994	1993	MAT LODGING SCORE			HT IN
		YIELD							YIELD AS % OF TEST AVERAGE							
TAYLOR	396	83.4	---	---	---	---	---	---	124	---	---	---	1	2.5	43	
TERRA	E387	74.2	---	---	---	---	---	---	111	---	---	---	1	2.0	43	
PATRIOT	391	70.7	---	---	---	---	---	---	106	---	---	---	1	1.7	47	
WILLCROSS	357	64.5	---	---	---	---	---	---	96	---	---	---	1	1.8	44	
MSG(OHLDE)	G 3996	79.0	61.7	---	70.4	---	---	---	118	109	---	---	1	2.0	42	
GOLDEN HARVEST	H-1388	61.2	---	63.1	---	---	---	---	91	---	102	---	1	1.8	44	
ADVANCED GENETICS GALAXY		68.1	58.0	62.5	49.9	63.0	62.9	59.6	102	103	101	104	1	2.0	45	
ADVANCED GENETICS QUEST		72.7	61.9	---	---	67.3	---	---	109	110	---	---	1	2.0	44	
TEST AVERAGES		67.0	56.5	61.8	48.1	---	---	---	---	---	---	---	---	---	---	
LSD (.10)		9.8	6.5	6.7	8.0	---	---	---	---	---	---	---	---	---	---	
MATURITY GROUP IV																
FLYER		69.5	58.1	57.6	53.1	63.8	61.7	59.6	109	105	94	100	9/29	1.7	47	
HOEGEMEYER	401	68.2	54.6	58.4	58.6	61.4	60.4	59.9	107	98	95	110	0	1.8	45	
MIDLAND	XP414RR	69.1	---	---	---	---	---	---	109	---	---	---	1	1.7	51	
WILLCROSS	9640	68.6	---	---	---	---	---	---	108	---	---	---	1	3.0	45	
WILLCROSS	AP-40N	55.2	---	---	---	---	---	---	87	---	---	---	1	1.7	51	
TERRA	HAMILTON	59.6	63.7	60.9	57.3	61.6	61.4	60.4	94	115	99	107	1	2.3	45	
PIONEER	TS415 (E415)	70.6	---	---	---	---	---	---	111	---	---	---	1	2.5	49	
MIDLAND	94B01	55.0	---	---	---	---	---	---	86	---	---	---	1	1.3	48	
HAMON	8410	65.0	56.2	65.4	53.2	60.6	62.2	59.9	102	101	107	100	1	1.7	44	
WILLCROSS	STRESSLAND	64.6	55.9	57.5	---	60.3	59.3	---	102	101	94	---	1	1.8	48	
WILLCROSS	H-447	70.5	---	---	---	---	---	---	111	---	---	---	1	1.5	47	
HOEGEMEYER	9741	63.5	---	---	---	---	---	---	100	---	---	---	1	1.7	47	
NC+	DEKALB	71.3	60.9	69.8	---	66.1	67.3	---	112	110	114	---	2	1.5	40	
NOVARTIS	435	66.7	49.7	---	---	58.2	---	---	105	90	---	---	2	1.8	50	
WILLCROSS	4A10	66.4	63.1	66.8	61.6	64.8	65.4	64.5	104	114	109	115	2	2.0	44	
DYNA-GRO	S42-60	78.2	63.7	72.9	---	71.0	71.6	---	123	115	119	---	2	1.8	47	
MYCOGEN	407	60.7	---	---	---	---	---	---	95	---	---	---	2	1.8	47	
NC+	3444N	64.0	---	---	---	---	---	---	100	---	---	---	2	1.2	46	
MSIA	429	55.9	59.8	---	---	57.9	---	---	88	108	---	---	3	1.3	47	
MIDLAND	4A27	64.0	---	61.1	---	---	---	---	101	---	100	---	3	2.7	44	
DELANGE	MUSTANG	61.0	---	---	---	---	---	---	96	---	---	---	3	1.3	51	
ADVANCED GENETICS LEGACY II	8431 (XP431)	61.5	---	---	---	---	---	---	97	---	---	---	3	2.3	47	
MIDLAND	DS-410	63.3	---	---	---	---	---	---	99	---	---	---	4	1.3	47	
MIDLAND	ADVANCED GENETICS LEGACY II	49.4	---	---	---	---	---	---	78	---	---	---	4	1.7	51	
MIDLAND	XP412	67.7	---	---	---	---	---	---	106	---	---	---	4	2.0	44	
MIDLAND	MSIA	56.2	---	---	---	---	---	---	88	---	---	---	4	3.0	51	
DELANGE	8433RR	60.0	---	---	---	---	---	---	94	---	---	---	4	1.7	47	
NECO	DS-454	70.6	---	---	---	---	---	---	111	---	---	---	4	2.0	50	
TERRA	7446	61.9	---	---	---	---	---	---	97	---	---	---	5	1.3	48	
TEST AVERAGES	TS474 (E474)	66.7	---	---	---	---	---	---	105	---	---	---	6	2.0	50	
LSD (.10)	KS4694	54.8	50.5	59.6	57.9	52.6	54.9	55.7	86	91	97	109	7	1.8	48	
	K1235	63.3	52.7	58.2	60.2	58.0	58.1	58.6	99	95	95	113	7	2.2	43	
	4562	57.8	---	---	---	---	---	---	91	---	---	---	8	2.2	42	
TEST AVERAGES		63.7	55.5	61.2	53.3	---	---	---	---	---	---	---	---	---	---	
LSD (.10)		7.2	7.0	5.9	8.9	---	---	---	---	---	---	---	---	---	---	
LSD (.1 BETWEEN MATURITY GROUPS) 9.2 7.3 7.1																
MATURITY IS MEASURED AS DAYS EARLIER OR LATER THAN FLYER																
LODGING SCORE IS BASED ON 1-5 SCALE WITH 1=EXCELLENT, 5=POOR																

TABLE 5. FRANKLIN COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1994-1997.

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT LODGING SCORE	HT IN	
		1997	1996	1995	1994	2-Yr	3-Yr	4-Yr	1997	1996	1995	1994			
		MATURITY GROUPS II-III													
		37.5	46.7	---	---	42.1	---	---	83	89	---	---	-14	1.5	29
HOEGEMEYER	IA2022	45.1	45.5	35.5	49.2	45.3	42.0	43.8	100	87	98	110	-9	1.3	27
	365	40.3	47.3	36.4	43.8	41.3	41.9	41.9	89	90	101	98	-6	1.0	27
	KS3494	39.3	46.7	33.5	42.7	43.0	39.8	40.5	87	89	93	95	-6	1.0	26
	RESNIK	42.3	51.2	36.2	45.5	46.8	43.2	43.8	100	98	100	101	-4	1.3	31
	PROBST	49.3	---	---	---	---	---	---	109	---	---	---	-4	1.3	28
NOVARTIS	S33-P2	46.1	56.3	37.4	48.4	51.2	46.6	47.1	102	108	104	108	-3	1.5	28
	SHERMAN	45.8	---	---	---	---	---	---	101	---	---	---	-3	1.0	28
MYCOGEN	5373	47.5	---	---	---	---	---	---	105	---	---	---	-3	1.2	27
DYNA-GRO	3367	43.2	---	---	---	---	---	---	95	---	---	---	-3	1.3	31
PATRIOT	388	40.0	49.6	33.6	45.4	44.8	41.1	42.2	88	95	93	101	-3	1.0	29
WILLCROSS	EDISON	45.9	56.0	---	---	50.9	---	---	101	107	---	---	-3	1.3	28
STINE	9536	46.2	54.6	39.8	---	50.4	46.9	---	102	104	110	---	-3	1.3	27
PATRIOT	3660	45.8	---	---	---	---	---	---	101	---	---	---	-3	1.3	30
WILLCROSS	380	40.8	---	---	---	---	---	---	90	---	---	---	-2	1.0	29
DYNA-GRO	3368	45.7	56.3	35.9	45.9	51.0	46.0	46.0	101	108	100	102	-2	1.2	28
TERRA	E364T	48.0	---	---	---	---	---	---	106	---	---	---	-2	1.2	28
MSIA	MAVERICK	45.1	---	---	---	---	---	---	100	---	---	---	-2	1.7	37
AGRIPRO	AP 3880	45.2	---	---	---	---	---	---	100	---	---	---	-1	1.0	29
WILLCROSS	9539N+	43.1	---	---	---	---	---	---	95	---	---	---	-1	1.5	34
	MACON	46.0	58.7	35.9	---	52.3	46.9	---	101	112	100	---	-1	1.0	27
PATRIOT	398	44.5	---	---	---	---	---	---	98	---	---	---	-1	1.3	33
TAYLOR	396	49.4	---	---	---	---	---	---	109	---	---	---	-1	1.0	26
PIONEER	9395	45.7	52.4	---	---	49.1	---	---	101	100	---	---	-1	1.0	30
NC+	3A67	50.8	---	---	---	---	---	---	112	---	---	---	-1	1.3	27
TAYLOR	395	44.6	---	---	---	---	---	---	98	---	---	---	-1	1.0	31
DEKALB	CX368	42.0	57.0	36.2	---	49.5	45.1	---	93	109	100	---	-1	1.0	29
WILLCROSS	92	46.4	58.1	38.8	44.2	52.3	47.8	46.9	103	111	108	99	0	1.2	30
LEWIS	390	49.5	53.3	---	---	51.4	---	---	109	102	---	---	0	1.0	27
	WILLIAMS 82	43.7	48.0	30.1	44.4	45.9	40.6	41.6	97	92	84	99	0	1.5	35
DYNA-GRO	3395	48.2	55.0	39.7	---	51.6	47.6	---	106	105	110	---	0	1.2	31
STINE	3870	49.4	57.5	---	---	53.4	---	---	109	110	---	---	0	1.0	27
ASGROW	A3904	44.7	---	---	---	---	---	---	99	---	---	---	0	1.0	30
WILLCROSS	9738	46.5	---	---	---	---	---	---	103	---	---	---	0	1.0	27
MIDLAND	XP391	43.5	---	---	---	---	---	---	96	---	---	---	0	1.2	35
GOLDEN HARVEST	H-1388	45.0	54.3	37.6	---	49.7	45.7	---	99	104	104	---	0	1.2	31
ADVANCED GENETICS	GALAXY	41.7	52.0	36.2	48.3	46.9	43.3	44.6	92	99	100	108	0	1.0	30
DEKALB	CX399	47.1	53.8	35.9	---	50.5	45.6	---	104	103	100	---	0	1.0	32
WILLCROSS	398	44.9	---	---	---	---	---	---	99	---	---	---	0	1.0	27
MIDLAND	8393	43.0	49.3	38.1	46.1	46.2	43.5	44.1	95	94	106	103	0	1.5	33
AGRIPRO	AP 3868	41.8	---	---	---	---	---	---	92	---	---	---	1	1.0	27
MSG(OHLDE)	G 3996	47.2	55.2	38.4	---	51.2	46.9	---	104	105	107	---	1	1.0	27
MIDLAND	8377R	47.5	---	---	---	---	---	---	105	---	---	---	1	1.0	27
TERRA	E387	49.4	---	---	---	---	---	---	109	---	---	---	1	1.0	28
GARST	EX 7398	49.6	---	---	---	---	---	---	109	---	---	---	1	1.0	27
PATRIOT	391	48.5	---	---	---	---	---	---	107	---	---	---	1	1.2	33
WILLCROSS	397	41.5	---	---	---	---	---	---	92	---	---	---	1	1.0	34
ASGROW	A3834	52.3	57.9	37.9	---	55.1	49.4	---	115	111	105	---	2	1.0	29

(CONTINUED)

TABLE 5. FRANKLIN COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1994-1997. (CONTINUED)

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT LODGING SCORE	HT IN	
		1997	1996	1995	1994	2-Yr	3-Yr	4-Yr	1997	1996	1995	1994			
		Maturity Group IV													
WILLCROSS MIDLAND	9639	43.6	51.7	---	---	47.7	---	---	96	99	---	---	2	1.0	27
WILLCROSS MIDLAND	8397RR	44.5	---	---	---	---	---	---	99	---	---	---	2	1.0	34
TEST AVERAGES		45.3	52.4	36.1	44.9				98	---	---	---			
LSD (.10)		3.9	4.4	3.3	2.7										
WILLCROSS MIDLAND	AP-40N	42.5	---	---	---	---	---	---	96	---	---	---	-2	1.0	29
WILLCROSS MIDLAND	8401	43.9	---	---	---	---	---	---	99	---	---	---	0	1.0	29
WILLCROSS MIDLAND	9741	46.5	---	---	---	---	---	---	105	---	---	---	0	1.0	31
HOEGEMEYER NC+	401	43.2	51.1	36.5	47.5	47.2	43.6	44.6	97	102	110	104	0	1.0	28
HOEGEMEYER NC+	4A27	44.2	---	---	---	---	---	---	100	---	---	---	0	1.0	29
HOEGEMEYER NC+	94B01	41.1	---	---	---	---	---	---	93	---	---	---	0	1.0	31
HOEGEMEYER NC+	429	40.2	48.2	---	---	44.2	---	---	91	96	---	---	0	1.0	30
HOEGEMEYER NC+	AP 4400	45.6	---	---	---	---	---	---	103	---	---	---	0	1.0	30
HOEGEMEYER NC+	XP414RR	37.9	---	---	---	---	---	---	85	---	---	---	0	1.0	34
HOEGEMEYER NC+	8410	46.0	57.4	34.3	48.3	51.7	45.9	46.5	104	114	104	105	0	1.0	28
HOEGEMEYER NC+	9640	45.7	52.5	---	---	49.1	---	---	103	104	---	---	0	1.3	30
HOEGEMEYER NC+	FLYER	43.0	50.2	33.7	43.8	46.6	42.3	42.7	97	100	102	96	10/1	1.0	31
HOEGEMEYER NC+	STRESSLAND	41.8	49.2	31.8	41.6	45.5	40.9	41.1	94	98	96	91	1	1.3	35
HOEGEMEYER NC+	471 SCN	43.4	---	---	---	---	---	---	98	---	---	---	1	1.0	33
HOEGEMEYER NC+	CX445	45.1	53.2	---	46.1	49.2	---	---	102	106	---	101	1	1.2	35
HOEGEMEYER NC+	MAGELLAN	43.4	---	---	---	---	---	---	98	---	---	---	1	1.5	32
HOEGEMEYER NC+	TERRA	48.1	54.3	39.6	---	51.2	47.3	---	109	108	120	---	1	1.2	31
HOEGEMEYER NC+	ADVANCED GENETICS LEGACY II	43.0	---	---	---	---	---	---	97	---	---	---	1	1.0	32
HOEGEMEYER NC+	407	41.6	---	---	---	---	---	---	94	---	---	---	1	1.0	31
HOEGEMEYER NC+	NOVARTIS	44.0	45.3	31.7	---	44.7	40.3	---	99	90	96	---	1	1.0	35
HOEGEMEYER NC+	S46-44	47.0	55.6	---	48.4	51.3	---	---	106	110	---	106	2	1.2	31
HOEGEMEYER NC+	NOVARTIS	43.5	60.4	33.0	---	51.9	45.6	---	98	120	100	---	2	1.2	33
HOEGEMEYER NC+	435	46.9	50.9	35.8	49.1	48.9	44.5	45.7	108	101	108	107	3	1.0	28
HOEGEMEYER NC+	8413	43.3	---	---	---	---	---	---	98	---	---	---	3	1.0	33
HOEGEMEYER NC+	MUSTANG	44.8	52.8	33.4	---	48.8	43.7	---	101	105	101	---	3	1.0	32
HOEGEMEYER NC+	DELANGE	46.2	---	---	---	---	---	---	104	---	---	---	3	1.2	33
HOEGEMEYER NC+	AGRIPRO	44.4	---	---	---	---	---	---	100	---	---	---	3	1.0	32
HOEGEMEYER NC+	PIONEER	44.4	---	---	---	---	---	---	109	---	---	---	3	1.0	33
HOEGEMEYER NC+	G 4555	44.7	48.6	---	---	46.7	---	---	101	97	---	---	4	1.0	31
HOEGEMEYER NC+	NECO	46.7	53.0	33.5	48.5	49.9	44.4	45.4	106	105	101	106	4	1.0	28
HOEGEMEYER NC+	ASGROW	46.6	50.9	---	---	48.7	---	---	105	101	---	---	4	1.2	34
HOEGEMEYER NC+	MIDLAND	43.9	44.7	---	---	44.3	---	---	99	89	---	---	5	1.0	39
HOEGEMEYER NC+	9644N	46.6	---	---	---	---	---	---	105	---	---	---	5	1.0	34
HOEGEMEYER NC+	DS-454	41.6	---	---	---	---	---	---	94	---	---	---	5	1.0	29
HOEGEMEYER NC+	XP412	47.3	58.8	---	---	53.0	---	---	107	117	---	---	5	1.5	33
HOEGEMEYER NC+	454	45.3	48.5	34.6	---	46.9	42.8	---	102	96	105	---	5	1.0	35
HOEGEMEYER NC+	8486	45.5	54.0	32.1	45.0	49.7	43.9	44.1	103	107	97	98	5	1.0	35
HOEGEMEYER NC+	9447	46.6	55.3	33.2	49.9	50.9	45.0	46.2	105	110	100	109	5	1.0	36
HOEGEMEYER NC+	O 4440	41.7	51.0	33.8	---	46.4	42.2	---	94	101	102	---	6	1.0	35
HOEGEMEYER NC+	DS-485	45.2	---	---	---	---	---	---	102	---	---	---	6	1.0	35
HOEGEMEYER NC+	3474	48.0	53.3	---	---	50.7	---	---	108	106	---	---	6	1.5	33
HOEGEMEYER NC+	4A47	45.9	54.9	36.9	51.2	50.4	45.9	47.2	104	109	112	112	6	1.3	32
HOEGEMEYER NC+	MERSCHMAN	46.5	---	---	---	---	---	---	105	---	---	---	6	1.5	34
HOEGEMEYER NC+	ATLANTA III														
HOEGEMEYER NC+	TAYLOR														

(CONTINUED)

TABLE 5. FRANKLIN COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1994-1997. (CONTINUED)

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT LODGING SCORE	HT IN	
		1997	1996	1995	1994	2-Yr	3-Yr	4-Yr	1997	1996	1995	1994			
TERRA	CRAWFORD	36.4	41.1	24.7	39.4	38.7	34.1	35.4	82	82	75	86	7	1.5	43
	TS474 (E474)	45.7	48.9	36.3	---	47.3	43.6	---	103	97	110	---	7	1.3	36
	467	37.3	---	---	---	---	---	---	84	---	---	---	7	1.0	40
	4680	46.5	56.4	36.6	48.6	51.4	46.5	47.0	105	112	111	106	7	1.5	34
	HORNBECK	40.0	---	---	---	---	---	---	90	---	---	---	7	1.0	35
STINE	K1235	43.8	48.2	35.0	49.8	46.0	42.3	44.2	99	96	106	109	7	1.0	29
	KS4694	46.7	45.4	35.5	49.8	46.1	42.5	44.3	105	90	107	109	7	1.0	32
	KS4895	42.3	41.3	33.4	---	41.8	39.0	---	95	82	101	---	8	1.0	38
	4562	47.3	---	---	---	---	---	---	107	---	---	---	8	1.0	29
TEST AVERAGES		44.3	50.4	33.1	45.8	---	---	---	---	---	---	---	---	---	---
LSD (.10)		3.5	5.7	3.3	3.0	---	---	---	---	---	---	---	---	---	---

LSD (.1 BETWEEN MATURITY GROUPS) 3.9 5.6 3.5 3.3  
 MATURITY IS MEASURED AS DAYS EARLIER OR LATER THAN FLYER  
 LODGING SCORE IS BASED ON 1-5 SCALE WITH 1=EXCELLENT, 5=POOR

TABLE 6. CHEROKEE COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1994-1997.

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT LODGING SCORE	HT IN	
		1997	1996	1995	1994	2-Yr	3-Yr	4-Yr	1997	1996	1995	1994			
TERRA	IA2022	41.0	43.8	---	---	42.4	---	---	87	92	---	---	-10	1.3	31
	RESNIK	42.9	45.5	16.6	44.4	44.2	35.0	37.4	91	96	103	97	-5	1.0	31
	KS3494	42.6	49.6	15.2	46.6	46.1	35.8	38.5	90	104	94	102	-4	1.3	33
	PROBST	47.9	48.2	15.6	42.5	48.1	37.2	38.5	102	101	96	93	-3	2.0	31
	SHERMAN	46.2	49.3	12.8	51.1	47.7	36.1	39.8	98	104	79	112	-2	2.7	33
	3883	48.2	---	---	---	---	---	---	102	---	---	---	-2	1.7	34
	EDISON	45.1	45.2	12.5	46.3	45.2	34.3	37.3	96	95	77	101	-2	1.0	32
	E364T	47.3	---	---	---	---	---	---	100	---	---	---	-2	1.3	30
	MACON	48.1	50.7	17.3	---	49.4	38.7	---	102	106	107	---	-1	1.0	30
	3870	52.3	---	---	---	---	---	---	111	---	---	---	2	1.0	31
STINE	DYNA-GRO	51.4	53.4	---	---	52.4	---	---	109	112	---	---	2	1.7	33
	92	50.3	50.6	19.9	46.1	50.4	40.3	41.7	107	106	123	101	2	1.7	32
	WILLCROSS	50.0	---	---	---	---	---	---	106	---	---	---	2	1.3	29
TERRA	E387	45.8	45.5	16.4	41.3	45.6	35.9	37.2	97	96	102	90	3	2.7	40
	WILLIAMS 82	48.0	---	---	---	---	---	---	102	---	---	---	3	1.0	28
398	47.1	47.6	16.1	45.8	---	---	---	---	---	---	---	---	---	---	
TEST AVERAGES		5.3	4.0	3.2	3.8	---	---	---	---	---	---	---	---	---	---
LSD (.10)		---	---	---	---	---	---	---	---	---	---	---	---	---	---

(CONTINUED)



TABLE 6. CHEROKEE COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1994-1997. (CONTINUED)

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT LODGING SCORE	IN	
		1997	1996	1995	1994	2-Yr	3-Yr	4-Yr	1997	1996	1995	1994			
MATURITY GROUP IV															
WILLCROSS	FLYER	48.0	43.2	17.4	45.6	45.6	36.2	38.5	91	100	93	94	9/25	1.3	34
WILLCROSS	9640	52.4	46.0	---	---	49.2	---	---	100	107	---	---	0	1.7	33
MYCOGEN	5404	49.0	---	---	---	---	---	---	93	---	---	---	0	2.0	36
TERRA	TS415 (E415)	48.5	50.8	---	---	49.7	---	---	92	118	---	---	1	1.0	33
MIDLAND	8410	53.9	43.3	16.3	50.1	48.6	37.8	40.9	102	100	87	103	1	1.3	32
	STRESSLAND	53.3	44.4	20.0	46.6	48.8	39.2	41.1	101	103	107	96	1	1.7	34
DEKALB	CX445	47.6	45.9	19.4	48.2	46.8	37.6	40.3	91	106	104	100	2	1.7	36
MIDLAND	8413	55.7	42.4	18.3	53.2	49.0	38.8	42.4	100	98	98	110	2	1.0	30
WILLCROSS	407	47.8	---	---	---	---	---	---	91	---	---	---	2	1.3	33
DELANGE	DS-410	54.9	37.4	---	---	46.1	---	---	83	87	---	---	3	1.7	34
MSIA	MAGELLAN	43.4	---	---	---	---	---	---	83	---	---	---	4	2.7	34
MSIA	MUSTANG	46.8	---	---	---	---	---	---	89	---	---	---	5	2.0	37
DELANGE	DS-454	53.7	---	---	---	---	---	---	102	---	---	---	5	1.7	35
MIDLAND	8433RR	49.7	---	---	---	---	---	---	95	---	---	---	6	1.0	34
NOVARTIS	S46-44	49.5	40.0	22.9	43.0	44.7	37.4	38.8	94	93	122	89	6	2.0	36
	KS4694	59.0	45.6	17.2	49.9	52.3	40.6	42.9	112	106	92	103	7	1.3	33
GARST	EX 7470N	50.0	---	---	---	---	---	---	95	---	---	---	7	1.0	34
WILLCROSS	9447	48.1	45.7	17.9	54.7	46.9	37.2	41.6	91	106	96	113	8	1.7	35
MIDLAND	8431 (XP431)	57.9	44.4	---	---	51.2	---	---	110	103	---	---	8	2.3	40
MIDLAND	8475	52.7	41.1	21.3	47.4	46.9	38.4	40.6	100	95	114	98	8	1.3	35
	K1235	56.7	46.7	25.3	49.1	51.7	42.9	44.5	108	108	135	102	8	1.0	31
HORNBECK	HBK 4600	50.1	---	---	---	---	---	---	95	---	---	---	8	1.0	36
DEKALB	CX494	53.1	42.9	---	---	48.0	---	---	101	99	---	---	8	2.0	40
MIDLAND	8486	53.1	44.5	19.9	---	48.8	39.1	---	101	103	106	---	8	1.3	38
	CRAWFORD	42.0	40.2	16.1	42.3	41.1	32.7	35.1	80	93	86	87	8	3.7	43
WILLCROSS	467	53.4	---	---	---	---	---	---	101	---	---	---	8	1.3	40
MIDLAND	8487NB	58.2	40.2	25.5	---	49.2	41.3	---	111	93	136	---	9	1.3	38
DELANGE	DS-485	52.4	44.2	18.8	---	48.3	38.4	---	100	102	100	---	9	2.0	39
STINE	4650	59.2	---	13.4	---	---	---	---	112	---	72	---	9	2.7	37
NOVARTIS	3474	53.5	---	---	---	---	---	---	102	---	---	---	9	2.3	39
NC+	4A47	57.2	45.6	---	---	51.4	---	---	109	106	---	---	10	3.3	34
ASGROW	KS4895	53.1	43.2	22.4	47.2	48.2	39.6	41.5	101	100	120	98	10	1.0	37
TERRA	A4922	54.6	---	16.1	---	---	---	---	104	---	86	---	11	1.3	37
	TS474 (E474)	66.3	45.0	15.7	---	55.7	42.3	---	126	104	84	---	11	3.0	39
WILLCROSS	9650N	57.0	37.5	---	---	47.2	---	---	108	87	---	---	13	2.3	38
TEST AVERAGES		52.6	43.2	18.7	48.4										
LSD (.10)		5.8	3.9	3.4	3.7										

(CONTINUED)

TABLE 6. CHEROKEE COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1994-1997. (CONTINUED)

BRAND	ENTRY	YIELD (Bu/A)					YIELD AS % OF TEST AVERAGE					MAT LODGING SCORE	HT IN		
		1997	1996	1995	1994	1994	4-Yr	3-Yr	2-Yr	1997	1996			1995	1994
Maturity Groups IVS-V															
NOVARTIS	DELSOY 4710	45.3	42.1	16.1	44.8	43.7	34.5	37.1	89	101	74	108	9	2.3	41
	KS4997(K1218)	57.2	46.9	25.5	43.9	52.0	43.2	43.4	112	112	117	106	11	1.0	32
	3505	48.1	---	---	---	---	---	---	94	---	---	---	13	2.3	35
	K1307	49.4	43.9	---	46.6	---	---	---	97	105	---	---	14	3.7	34
	MANOKIN	48.6	39.2	22.2	45.0	43.9	36.7	38.7	95	94	102	108	14	4.3	37
MIDLAND	ESSEX	47.6	38.3	21.1	43.2	43.0	35.7	37.6	93	92	97	104	15	1.0	30
	STAFFORD	51.2	41.9	23.4	43.1	46.5	38.8	39.9	101	100	107	104	16	1.7	33
	XP530N	56.0	---	---	---	---	---	---	110	---	---	---	17	2.3	35
NC+	5A44	48.6	39.8	22.9	44.2	37.1	---	---	95	95	105	---	18	2.0	39
	KS5292	48.1	42.3	20.1	43.6	45.2	36.8	38.5	94	101	92	105	18	2.0	37
MIDLAND	HOLLADAY	50.7	43.6	23.8	45.0	47.2	39.4	40.8	100	105	109	108	19	2.0	33
	XP521N	49.8	---	---	---	---	---	---	98	---	---	---	19	2.0	33
WILLCROSS	DELSOY 5500	57.1	40.9	---	49.0	---	---	---	112	98	---	---	19	1.3	35
	K1276	53.6	45.8	22.1	49.7	40.5	---	---	105	110	101	---	20	1.0	32
ASGROW	517	47.9	---	---	---	---	---	---	94	---	---	---	22	2.7	40
	A5547	51.9	---	---	---	---	---	---	102	---	---	---	22	2.3	35
NOVARTIS	S57-11	54.8	41.8	---	48.3	---	---	---	108	100	---	---	23	2.7	40
	HUTCHESON	51.3	42.9	20.6	42.6	47.1	38.2	39.3	101	103	94	103	23	1.3	35
TEST AVERAGES	HARTWIG	40.0	35.9	21.1	31.9	37.9	32.3	32.2	78	86	97	77	23	4.7	41
	K1277	62.0	45.2	18.4	---	53.6	41.9	---	122	108	85	---	23	1.7	38
LSD (.10)		5.0	41.7	21.8	41.5										
		5.4	3.8	3.8	5.1										

LSD (.1 BETWEEN MATURITY GROUPS) 5.8 4.1 3.5 4.5  
 MATURITY IS MEASURED AS DAYS EARLIER OR LATER THAN FLYER  
 LODGING SCORE IS BASED ON 1-5 SCALE WITH 1=EXCELLENT, 5=POOR

TABLE 7. REPUBLIC COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1994-1997.

BRAND	ENTRY	YIELD (Bu/A)					YIELD AS % OF TEST AVERAGE					MAT LODGING SCORE	HT IN		
		1997	1996	1995	1994	1994	4-Yr	3-Yr	2-Yr	1997	1996			1995	1994
Maturity Groups II-III															
MIDLAND	IA2022	23.3	73.9	---	---	48.6	---	---	64	115	---	---	8	1.0	26
	XP291RR	38.0	---	---	---	---	---	---	105	---	---	---	8	1.0	23
MIDLAND	8321 (XP321)	48.5	61.4	---	---	55.0	---	---	134	95	---	---	5	1.0	26
	ADVANCED GENETICS CELEBRITY	32.9	71.2	40.4	37.4	52.0	48.1	45.5	91	110	90	118	5	1.0	24
MIDLAND	XP341RR	41.2	---	---	---	---	---	---	114	---	---	---	5	1.0	26
	KS3494	51.8	58.3	42.8	30.5	55.0	50.9	45.8	143	90	95	96	4	1.0	28
MIDLAND	XP342RR	25.6	---	---	---	---	---	---	70	---	---	---	4	1.0	24
	ADVANCED GENETICS QUEST	46.7	69.4	43.9	---	58.1	53.3	---	129	108	98	---	4	1.0	26
GARST	EX 7357	37.5	---	---	---	---	---	---	104	---	---	---	4	1.0	25
	CX351	47.2	---	---	---	---	---	---	130	---	---	---	4	1.0	28
WILLCROSS	PROBST	40.3	67.3	44.3	32.7	53.8	50.6	46.2	111	104	99	103	4	1.0	27
	357	29.3	---	---	---	---	---	---	81	---	---	---	4	1.0	27
FONTANELLE	3373 (EXP9474)	47.9	74.5	---	---	61.2	---	---	132	115	---	---	3	1.0	26
	WILLCROSS	47.4	---	---	---	---	---	---	131	---	---	---	3	1.0	27
DYNA-GRO	3367	25.7	---	---	---	---	---	---	71	---	---	---	3	1.0	25
	8371 (XP371)	39.6	---	---	---	---	---	---	109	---	---	---	3	1.0	25

(CONTINUED)

TABLE 7. REPUBLIC COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1994-1997. (CONTINUED)

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE					MAT LODGING IN	HT IN
		1997	1996	1995	1994	2-Yr	3-Yr	4-Yr	1997	1996	1995	1994			
WILLCROSS	9536	41.7	68.9	---	---	55.3	---	---	115	107	---	---	-3	1.0	28
STINE	3660	38.0	67.5	---	---	52.7	---	---	105	105	---	---	-3	1.0	25
MIDLAND	8355	46.3	67.0	49.9	31.5	56.6	54.4	48.7	128	104	111	100	-3	1.0	27
MIDLAND	8386STS	32.1	---	---	---	---	---	---	89	---	---	---	-3	1.0	27
DYNA-GRO	3368	33.1	62.1	47.6	30.7	47.6	47.6	43.4	91	96	106	97	-3	1.0	25
STINE	3683	22.2	---	---	---	---	---	---	61	---	---	---	-3	1.0	23
NC+	3A67	50.9	---	---	---	---	---	---	140	---	---	---	-2	1.0	28
MACON	30.5	70.4	42.9	---	50.4	47.9	---	---	84	109	96	---	-2	1.0	24
ADVANCED GENETICS	BLAZER	38.3	68.8	---	---	53.6	---	---	106	107	---	---	-2	1.0	29
EDISON	20.3	58.3	41.4	29.7	39.3	40.0	37.4	56	90	92	94	94	-2	1.0	30
SHERMAN	25.0	63.5	44.5	30.5	44.3	44.4	40.9	69	98	99	97	97	-2	1.0	24
WILLIAMS 82	18.1	51.7	41.6	30.6	34.9	37.1	35.5	50	80	93	97	97	-2	1.0	28
ADVANCED GENETICS	GALAXY	36.8	64.4	39.3	33.6	50.6	46.8	43.5	102	100	88	106	-2	1.0	25
ADVANCED GENETICS	EXPRESS II	34.4	64.9	53.0	---	49.6	50.8	---	95	101	118	---	-2	1.0	26
MIDLAND	XP391	28.9	---	---	---	---	---	---	80	---	---	---	-2	1.0	32
WILLCROSS	397	34.8	---	---	---	---	---	---	96	---	---	---	-2	1.0	27
NOVARTIS	S38-L5	47.0	---	---	---	---	---	---	130	---	---	---	-2	1.0	26
PIONEER	9395	41.0	---	---	---	---	---	---	113	---	---	---	-2	1.0	28
DYNA-GRO	3395	42.9	58.7	---	---	50.8	---	---	118	91	---	---	-2	1.0	28
MIDLAND	8377RR	36.5	---	---	---	---	---	---	101	---	---	---	-1	1.0	25
MSG(OHLDE)	G 3996	30.3	69.1	45.4	---	49.7	48.3	---	84	107	101	---	-1	1.0	27
GARST	EX 7398	26.8	---	---	---	---	---	---	74	---	---	---	-1	1.0	25
WILLCROSS	9639	46.1	68.6	---	---	57.3	---	---	127	106	---	---	-1	1.0	25
STINE	3883	40.7	---	---	---	---	---	---	112	---	---	---	-1	1.0	28
RESNIK	25.5	66.6	48.7	30.0	46.1	46.9	42.7	70	103	108	95	---	-1	1.0	27
ASGROW	A3834	42.1	---	---	---	---	---	---	116	---	---	---	-1	1.0	26
WILLCROSS	92	25.9	59.1	48.2	---	42.5	44.4	---	71	92	---	---	0	1.0	27
TEST AVERAGES		36.3	64.5	44.9	31.6										
LSD (.10)		5.9	6.1	6.2	2.0										
MATURITY GROUP IV															
MIDLAND	XP414RR	18.7	---	---	---	---	---	---	56	---	---	---	-1	1.0	32
PIONEER	94B01	41.8	---	---	---	---	---	---	126	---	---	---	-1	1.0	28
MSG(OHLDE)	G 4555	40.7	---	---	---	---	---	---	122	---	---	---	0	1.0	29
FLYER	29.8	61.1	43.7	28.8	45.5	44.9	40.9	40.9	90	100	107	100	10/2	1.0	29
STRESSLAND	47.8	57.6	34.1	27.9	52.7	46.5	41.9	144	144	95	83	97	0	1.0	31
AP-40N	24.3	---	---	---	---	---	---	---	73	---	---	---	0	1.0	26
WILLCROSS	4A10	27.9	61.5	---	---	44.7	---	---	84	101	---	---	0	1.0	26
NC+	5404	42.7	---	---	---	---	---	---	128	---	---	---	0	1.0	30
WILLCROSS	9640	41.5	69.2	---	---	55.3	---	---	125	114	---	---	0	1.0	26
MIDLAND	8431 (XP431)	27.3	58.5	---	---	42.9	---	---	82	96	---	---	0	1.0	28
MIDLAND	8433RR	29.3	---	---	---	---	---	---	88	---	---	---	0	1.0	26
WILLCROSS	9741	37.8	---	---	---	---	---	---	113	---	---	---	1	1.0	27
K1235	30.9	64.1	46.2	26.2	47.5	47.1	41.9	93	105	113	91	2	1.0	26	
HAMILTON	47.7	62.2	---	---	55.0	---	---	---	143	102	---	---	2	1.0	29
7446	24.2	52.6	---	---	38.4	---	---	---	73	86	---	---	2	1.0	28
NECO	O 4440	27.5	---	40.1	26.6	---	---	---	83	---	---	---	2	1.0	29
MSG(OHLDE)	KS4694	25.7	60.4	40.8	29.0	43.1	42.3	39.0	77	99	100	101	2	1.0	27
TEST AVERAGES		33.3	60.9	40.9	28.9										
LSD (.10)		6.2	NS	NS	3.3										
LSD (.1 BETWEEN MATURITY GROUPS)															
6.4 8.2 6.5 2.7															
MATURITY IS MEASURED AS DAYS EARLIER OR LATER THAN FLYER															
LODGING SCORE IS BASED ON 1-5 SCALE WITH 1=EXCELLENT, 5=POOR															

TABLE 8. REPUBLIC COUNTY SOYBEAN PERFORMANCE (IRRIGATED), 1994-1997.

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT LODGING SCORE	HT IN	
		1997	1996	1995	1994	2-Yr	3-Yr	4-Yr	1997	1996	1995	1994			
MATURITY GROUPS II-III															
MIDLAND	IA2022	66.8	59.1	---	---	63.0	---	---	96	96	---	---	---	-5	1.0
MIDLAND	XP291RR	69.6	---	---	---	---	---	---	100	---	---	---	---	-5	1.0
MIDLAND	8282 (XP282)	65.4	61.5	---	---	63.4	---	---	94	100	---	---	---	-3	1.0
MIDLAND	8333STS(XP333STS)	62.5	57.7	---	---	60.1	---	---	90	94	---	---	---	-2	1.0
MIDLAND	8356	69.2	---	---	---	---	---	---	100	---	---	---	---	-2	1.0
MIDLAND	XP342RR	58.9	---	---	---	---	---	---	85	---	---	---	---	-2	1.0
MIDLAND	KS3494	78.3	62.8	60.8	77.7	70.5	67.3	69.9	113	102	109	110	110	-2	1.0
MIDLAND	8377RR	74.4	---	---	---	---	---	---	107	---	---	---	---	-2	1.0
WILLCROSS	9738	72.3	---	---	---	---	---	---	104	---	---	---	---	-2	1.0
WILLCROSS	9639	64.0	61.5	---	---	62.8	---	---	92	100	---	---	---	-2	1.0
MSG(OHLDE)	G 3300	75.9	---	---	---	---	---	---	110	---	---	---	---	-2	3.0
MIDLAND	8321 (XP321)	75.8	65.3	---	---	70.5	---	---	109	106	---	---	---	-2	1.0
MIDLAND	XP341RR	65.5	---	---	---	---	---	---	94	---	---	---	---	-2	1.0
MIDLAND	8386STS	63.6	62.2	---	---	62.9	---	---	92	101	---	---	---	-1	1.0
ADVANCED GENETICS	GALAXY	66.8	69.1	58.0	79.5	68.0	64.7	68.4	96	113	104	112	112	-1	1.0
ASGROW	A3244	61.1	63.5	---	---	62.3	---	---	88	104	---	---	---	-1	1.0
WILLCROSS	357	66.3	---	---	---	---	---	---	96	---	---	---	---	-1	1.0
DEKALB	CX373	77.1	---	---	---	---	---	---	111	---	---	---	---	-1	1.0
HOEGEMEYER	312	78.8	59.9	---	---	69.4	---	---	114	98	---	---	---	-1	1.0
ADVANCED GENETICS	MACON	64.4	61.7	62.7	---	63.0	62.9	---	93	101	112	---	---	-1	1.0
EXPRESS II	PROBST	70.8	63.4	58.5	---	67.1	64.2	---	102	103	105	---	---	-1	1.0
MIDLAND	8355	77.0	62.0	57.9	72.7	66.4	63.5	65.8	99	104	104	103	103	-1	1.0
WILLCROSS	92	65.6	57.8	---	---	61.7	---	---	111	101	103	113	113	-1	1.0
PIONEER	93B51	65.8	---	---	---	---	---	---	95	94	---	---	---	-1	1.0
ADVANCED GENETICS	RESNIK	60.3	56.8	53.3	65.1	58.5	56.8	58.9	97	93	95	92	92	-1	1.0
BLAZER	9536	67.1	---	---	---	---	---	---	97	---	---	---	---	-1	1.0
WILLCROSS	CX377	71.0	61.8	---	---	66.4	---	---	102	101	---	---	---	-1	1.0
DEKALB	SHERMAN	79.5	63.2	59.1	79.7	71.4	67.3	70.4	115	103	106	112	112	-1	1.0
MSG(OHLDE)	G 3608RR	74.3	58.6	61.2	72.7	66.5	64.7	66.7	107	96	109	103	103	-1	3.0
STINE	3870	64.9	---	---	---	---	---	---	94	---	---	---	---	-1	1.0
ADVANCED GENETICS	QUEST	69.2	---	---	---	---	---	---	100	---	---	---	---	-1	1.0
GARST	EX 7357	68.0	59.6	60.0	---	63.8	62.5	---	98	97	107	---	---	-1	1.0
MSG(OHLDE)	G 3996	68.3	---	---	---	---	---	---	99	---	---	---	---	-1	1.0
HOEGEMEYER	365	68.7	63.4	61.0	---	66.1	64.4	---	99	103	109	---	---	-1	1.0
PIONEER	9395	76.0	60.7	56.1	67.0	68.4	64.3	65.0	110	99	100	95	95	-1	1.0
HOEGEMEYER	380	77.9	58.9	56.0	71.4	68.4	64.3	66.1	112	96	100	101	101	0	1.0
MYCOGEN	5373	76.6	---	---	---	---	---	---	111	---	---	---	---	0	1.0
WILLCROSS	397	74.0	63.2	51.7	75.5	68.6	63.0	66.1	107	103	92	106	106	0	1.0
NC+	3A67	71.7	---	---	---	---	---	---	103	---	---	---	---	0	1.0
MIDLAND	8371 (XP371)	62.6	---	---	---	---	---	---	90	---	---	---	---	0	1.0
GARST	EX 7398	68.5	---	---	---	---	---	---	99	---	---	---	---	0	1.0
WILLIAMS 82	8371 (XP371)	66.9	61.4	---	---	64.1	---	---	96	100	---	---	---	0	1.0
TEST AVERAGES	---	74.7	---	---	---	---	---	---	108	---	---	---	---	0	1.0
LSD (.10)	---	54.4	56.3	50.8	65.5	55.3	53.8	56.7	79	92	91	92	92	0	1.0
		69.3	61.3	55.9	70.9										
		5.3	3.3	4.9	8.5										

(CONTINUED)

TABLE 8. REPUBLIC COUNTY SOYBEAN PERFORMANCE (IRRIGATED), 1994-1997. (CONTINUED)

BRAND	ENTRY	YIELD (Bu/A)					YIELD AS % OF TEST AVERAGE					MAT LODGING SCORE IN		
		1997	1996	1995	1994	1994	4-Yr	3-Yr	2-Yr	1997	1996		1995	1994
MATURITY GROUP IV														
MYCOGEN	FLYER	66.7	63.6	52.9	66.9	65.1	61.1	62.5	103	100	97	94	10/4	1.0
	429	57.5	61.2	---	---	59.3	---	---	89	96	---	---	0	1.0
	STRESSLAND	63.1	61.1	47.8	74.1	62.1	57.3	61.5	97	96	88	104	0	1.0
	AP-40N	65.1	---	---	---	---	---	---	100	---	---	---	0	1.0
	WILLCROSS	69.4	---	---	---	---	---	---	107	---	---	---	0	1.0
	741	72.7	---	58.1	---	---	---	---	112	---	---	---	0	1.0
	NC+	79.3	69.6	62.2	80.8	74.4	70.3	72.9	122	110	114	114	0	1.0
	DEKALB	66.5	63.4	---	---	64.9	---	---	98	100	---	---	0	3.0
	WILLCROSS	63.6	---	---	---	---	---	---	98	---	---	---	0	1.0
	NOVARTIS	57.2	63.0	50.2	61.2	60.1	56.8	57.9	88	99	92	86	1	3.0
	K1235	64.0	63.1	54.9	77.6	63.5	60.7	64.9	99	99	101	109	1	1.0
	NOVARTIS	55.8	---	---	---	---	---	---	86	---	---	---	1	1.0
	MIDLAND	63.7	61.7	---	---	62.7	---	---	98	97	---	---	1	1.0
	XP414RR	66.5	---	---	---	---	---	---	103	---	---	---	1	1.0
	7446	54.6	63.7	48.1	51.1	59.2	55.5	54.4	84	100	88	72	2	1.0
	8433RR	71.4	63.4	---	---	67.4	---	---	110	100	---	---	3	1.0
	KS4694	64.8	63.5	54.5	71.2	---	---	---	---	---	---	---	---	---
	HAMILTON	4.9	3.0	5.5	8.2	---	---	---	---	---	---	---	---	---
TEST AVERAGES														
LSD (.10)														

LSD (.1 BETWEEN MATURITY GROUPS) 5.1 3.6 5.5 10.4  
 MATURITY IS MEASURED AS DAYS EARLIER OR LATER THAN FLYER  
 LODGING SCORE IS BASED ON 1-5 SCALE WITH 1=EXCELLENT, 5=POOR

TABLE 9. HARVEY COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1994-1997.

BRAND	ENTRY	YIELD (Bu/A)					YIELD AS % OF TEST AVERAGE					MAT LODGING SCORE IN		
		1997	1996	1995	1994	1994	4-Yr	3-Yr	2-Yr	1997	1996		1995	1994
MATURITY GROUPS II-III														
ASGROW	IA2022	36.2	44.8	---	---	40.5	---	---	84	83	---	---	-15	1.2
	KS3494	39.7	52.4	24.0	20.1	46.0	38.7	34.0	93	97	98	100	-12	1.2
	A3244	42.8	---	---	---	---	---	---	100	---	---	---	-10	1.0
	PIONEER	43.6	49.9	30.3	24.4	46.7	41.2	37.0	101	93	124	121	-9	1.0
	SHERMAN	41.7	48.3	25.3	19.6	45.0	38.5	33.7	97	90	103	97	-8	1.1
	WILSON	45.4	---	---	---	---	---	---	106	---	---	---	-8	1.1
	3380	38.6	55.4	25.9	19.2	47.0	40.0	34.8	90	103	106	95	-7	1.0
	RESNIK	40.7	---	---	---	---	---	---	95	---	---	---	-6	1.1
	XP341RR	39.4	54.8	---	---	47.1	---	---	92	102	---	---	-6	1.0
	3A67	44.6	---	---	---	---	---	---	104	---	---	---	-6	1.0
	PIONEER	39.8	---	---	---	---	---	---	93	---	---	---	-6	1.0
	MIDLAND	44.1	47.5	23.0	20.4	45.8	38.2	33.7	103	88	94	101	-5	1.5
	XP381RR	48.3	64.3	---	---	56.3	---	---	113	119	---	---	-5	1.2
	MIDLAND	48.9	57.5	23.3	---	53.2	43.2	---	114	107	95	---	-5	1.0
	PROBST	48.1	62.7	---	---	55.4	---	---	112	116	---	---	-5	1.2
	MIDLAND	43.3	56.1	24.4	17.5	49.7	41.3	35.3	101	104	100	87	-5	1.1
	8371 (XP371)	46.8	72.8	---	---	59.8	---	---	109	135	---	---	-4	1.2
	MACON	51.3	67.6	24.8	---	59.4	47.9	---	119	126	101	---	-4	1.0
	3395													
	DYNA-GRO													
	EDISON													
	3870													
	STINE													
	ADVANCED GENETICS EXPRESS II													

(CONTINUED)

TABLE 9. HARVEY COUNTY SOYBEAN PERFORMANCE (DRYLAND), 1994-1997. (CONTINUED)

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT SCORE	LODGING SCORE	IN	
		1997	1996	1995	1994	2-Yr	3-Yr	4-Yr	1997	1996	1995	1994				
WILSON	3670	40.8	55.1	24.2	---	47.9	40.0	---	95	102	99	---	-4	1.6	33	
DEKALB	CX399	47.0	---	---	---	---	---	---	110	---	---	---	-3	1.3	36	
MIDLAND	XP391	41.0	---	---	---	---	---	---	96	---	---	---	-3	1.3	39	
MSG(OHLDE)	G 3996	52.3	62.6	23.0	---	57.4	46.0	---	122	116	94	---	-2	1.3	33	
ADVANCED GENETICS GALAXY		49.8	61.9	26.2	---	55.8	46.0	---	116	115	107	---	-2	1.1	35	
WILLIAMS 82		28.8	53.2	20.9	17.1	41.0	34.3	30.0	67	99	86	84	-1	1.5	38	
MIDLAND	8386STS	41.7	53.1	---	---	47.4	---	---	97	99	---	---	-1	1.2	37	
DELANGE	DS-390	29.8	48.3	---	24.1	39.1	---	---	69	90	---	119	-1	1.1	38	
MIDLAND	8377RR	41.6	---	---	---	---	---	---	97	---	---	---	1	1.1	30	
ASGROW	A3834	45.7	51.3	24.7	---	48.5	40.6	---	107	95	101	---	1	1.0	31	
TEST AVERAGES		42.9	53.9	24.5	20.2											
LSD (.10)		6.8	8.3	2.3	1.7											
MATURITY GROUP IV																
NC+	4A10	48.8	---	---	---	---	---	---	115	---	---	---	0	1.2	34	
FLYER	48.4	49.2	24.3	21.8	48.8	40.6	35.9	114	88	98	106	9/24	1.2	38		
5404	45.0	---	---	---	---	---	---	107	---	---	---	---	0	1.5	41	
MIDLAND	XP414RR	40.7	---	---	---	---	---	96	---	---	---	---	1	1.2	40	
PIONEER	9412	43.1	47.1	---	---	45.1	---	102	85	---	---	---	1	1.1	32	
AGRIPRO	AP 4500	44.9	---	---	---	---	---	106	---	---	---	---	1	1.7	40	
STRESSLAND		39.8	56.5	24.7	22.1	48.2	40.3	94	102	100	107	2	1.2	40		
DELANGE	DS-454	47.7	---	---	---	---	---	113	---	---	---	---	2	1.8	40	
ASGROW	A4341	44.2	58.4	---	---	51.3	---	105	105	---	---	---	3	1.2	35	
AGRIPRO	AP 4400	41.6	---	---	---	---	---	98	---	---	---	---	3	1.1	34	
MIDLAND	8431 (XP431)	43.3	67.0	---	---	55.1	---	102	120	---	---	---	4	1.7	40	
MIDLAND	8433RR	38.5	---	---	---	---	---	91	---	---	---	---	4	1.1	35	
MIDLAND	XP412	41.1	---	---	---	---	---	97	---	---	---	---	4	1.4	35	
DELANGE	DS-410	40.4	44.2	25.7	---	42.3	36.8	96	79	104	---	---	5	1.4	38	
	K1235	39.0	63.7	30.4	21.8	51.4	44.4	92	114	123	106	6	1.9	34		
HORNBECK	HBK 4600	38.0	---	---	---	---	---	90	---	---	---	---	6	1.6	38	
	KS4694	34.4	58.5	24.7	21.8	46.5	39.2	81	105	100	106	7	1.3	36		
TEST AVERAGES		42.3	55.7	24.8	20.6											
LSD (.10)		6.4	8.0	2.6	1.7											
LSD (.1 BETWEEN MATURITY GROUPS)																
6.9 8.3 2.4 1.9																
MATURITY IS MEASURED AS DAYS EARLIER OR LATER THAN FLYER																
LODGING SCORE IS BASED ON 1-5 SCALE WITH 1=EXCELLENT, 5=POOR																

TABLE 10. STAFFORD COUNTY SOYBEAN PERFORMANCE (IRRIGATED), 1994-1997.

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT SCORE	LOGGING IN	
		1997	1996	1995	1994	2-Yr	3-Yr	4-Yr	1997	1996	1995	1994			
MATURITY GROUPS II-III															
MSG(OHLDE)	IA2022	42.2	52.4	---	---	47.3	---	---	97	97	---	---	-11	1.8	33
WILSON	G 3242	50.0	---	---	---	---	---	---	115	---	---	---	-8	1.5	31
RESNIK	3380	42.9	---	---	---	---	---	---	98	---	---	---	-8	1.3	30
ASGROW	RESNIK	34.2	47.0	47.3	49.2	40.6	42.9	44.5	79	87	96	98	-7	1.0	29
STINE	A3244	42.8	55.9	---	---	49.4	---	---	98	103	---	---	-6	1.0	29
MIDLAND	KS3494	41.9	48.5	49.8	50.9	45.2	46.7	47.8	96	90	101	102	-5	1.0	34
DEKALB	3683	44.3	---	---	---	---	---	---	102	---	---	---	-4	1.3	33
WILSON	8375	38.2	56.0	52.4	55.2	47.1	48.8	50.4	88	103	106	110	-4	1.0	28
MIDLAND	EDISON	42.0	50.6	46.5	49.4	46.3	46.4	47.1	96	93	94	99	-4	1.0	30
PIONEER	PROBST	48.1	61.5	49.9	47.6	54.8	53.2	51.8	110	114	101	95	-3	1.5	33
ADVANCED GENETICS	CX373	35.0	---	---	---	---	---	---	80	---	---	---	-3	1.0	33
WILSON	3670	42.0	54.8	48.9	---	48.4	48.6	---	96	101	99	---	-3	1.3	31
MIDLAND	8371 (XP371)	46.1	54.4	---	---	50.3	---	---	106	100	---	---	-3	1.3	35
PIONEER	93B82	43.2	---	---	---	---	---	---	99	---	---	---	-3	1.0	33
ADVANCED GENETICS	EXPRESS II	41.3	52.1	56.5	---	46.7	50.0	---	95	96	115	---	-2	1.0	28
SHERMAN	48.6	59.0	46.9	55.2	53.8	51.5	52.4	112	109	95	110	---	-2	2.0	35
GARST	EX 7398	47.2	---	---	---	---	---	---	108	---	---	---	-2	1.0	29
MIDLAND	XP341RR	43.2	---	---	---	---	---	---	99	---	---	---	-2	1.0	32
DYNA-GRO	3368	41.7	---	---	---	---	---	---	96	---	---	---	-2	1.3	31
DYNA-GRO	MACON	47.0	59.0	62.2	---	53.0	56.0	---	108	109	126	---	-2	1.3	33
STINE	3395	40.9	---	---	---	---	---	---	94	---	---	---	-2	1.0	32
PIONEER	3870	41.9	58.7	---	---	50.3	---	---	96	108	---	---	-2	1.0	31
ADVANCED GENETICS	9395	46.6	---	---	---	---	---	---	107	---	---	---	-2	1.0	32
GARST	ADVANCED GENETICS GALAXY	47.4	60.6	55.0	52.6	54.0	54.3	53.9	109	112	112	105	-1	1.0	33
MSG(OHLDE)	SC 400	45.9	---	---	---	---	---	---	105	---	---	---	-1	1.3	33
NC+	G 3996	49.4	60.4	56.2	---	54.9	55.3	---	113	112	114	---	-1	1.0	28
MIDLAND	3A67	44.0	55.7	---	---	49.8	---	---	101	103	---	---	0	1.8	32
WILLIAMS 82	8377RR	42.0	---	---	---	---	---	---	96	---	---	---	0	1.0	30
MIDLAND	8386STS	35.6	49.4	43.1	36.8	42.5	42.7	41.2	82	91	88	74	0	1.5	38
ASGROW	A3834	51.8	61.1	---	---	56.5	---	---	119	113	---	---	0	1.8	36
DELANGE	DS-390	42.9	60.6	49.6	---	51.8	51.1	---	99	112	101	---	1	1.0	30
TEST AVERAGES		44.5	52.9	47.7	43.7	48.7	48.4	47.2	102	98	97	87	1	1.0	37
LSD (.10)		6.3	4.3	5.7	4.8										

(CONTINUED)

TABLE 10. STAFFORD COUNTY SOYBEAN PERFORMANCE (IRRIGATED), 1994-1997. (CONTINUED)

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT SCORE	LODGING SCORE	HT IN
		1997	1996	1995	1994	2-Yr	3-Yr	4-Yr	1997	1996	1995	1994			
MATURITY GROUP IV															
NC+	4A10	55.0	66.6	58.9	57.8	60.8	60.2	59.6	120	115	115	119	-1	1.3	34
DEKALB	CX434	42.4	60.3	---	---	51.3	---	---	93	104	---	---	0	1.0	33
	FLYER	42.5	52.3	52.3	49.7	47.4	49.0	49.2	93	91	102	103	9/29	1.0	32
DELANGE	DS-454	51.6	---	---	---	---	---	---	113	---	---	---	1	1.3	35
PIONEER	9421	49.9	---	---	---	---	---	---	109	---	---	---	1	1.5	38
DELANGE	DS-410	40.0	62.1	48.9	---	51.1	50.3	---	88	108	95	---	1	1.0	35
MIDLAND	XP414RR	43.4	---	---	---	---	---	---	95	---	---	---	1	1.3	36
DEKALB	CX445	50.7	65.0	49.1	---	57.9	55.0	---	111	113	96	---	1	1.3	37
	K1235	37.3	57.4	44.0	47.8	47.3	46.2	46.6	82	99	86	99	2	1.0	34
NC+	4A27	43.1	---	---	---	---	---	---	94	---	---	---	2	1.0	36
MIDLAND	8433RR	45.0	---	---	---	---	---	---	98	---	---	---	2	1.0	34
	STRESSLAND	49.9	63.0	54.0	51.9	56.4	55.6	54.7	109	109	105	107	2	1.8	40
	KS4694	43.3	57.2	47.6	37.3	50.2	49.4	46.3	95	99	93	77	2	1.0	37
ASGROW	A4341	46.2	60.8	---	---	53.5	---	---	101	105	---	---	3	1.0	34
TEST AVERAGES		45.7	57.8	51.2	48.5	---	---	---	---	---	---	---	---	---	---
LSD (.10)		5.1	4.0	4.9	5.1	---	---	---	---	---	---	---	---	---	---

LSD (.1 BETWEEN MATURITY GROUPS) 6.4 5.5 5.6 5.5  
 MATURITY IS MEASURED AS DAYS EARLIER OR LATER THAN FLYER

LOGGING SCORE IS BASED ON 1-5 SCALE WITH 1=EXCELLENT, 5=POOR



TABLE 11. THOMAS COUNTY SOYBEAN PERFORMANCE (IRRIGATED), 1994-1997.

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT SCORE	LODGING IN	HT
		1997	1996	1995	1994	2-Yr	3-Yr	4-Yr	1997	1996	1995	1994			
MATURITY GROUP II															
NC+	IA2022	66.4	42.8	---	---	54.6	---	---	97	99	---	---	-15	1.0	35
NC+	2A91	68.1	---	---	---	---	---	---	100	---	---	---	-15	1.3	34
NC+	3A25	69.7	---	---	---	---	---	---	102	---	---	---	-11	1.8	33
TEST AVERAGES		68.1	43.1	36.7	68.1										
LSD (.10)		4.7	6.4	5.7	6.6										
MATURITY GROUPS III-IV															
MSG(OHLDE)	G 3141	73.0	---	---	---	---	---	---	100	---	---	---	-11	1.0	33
PIONEER	9352	71.7	---	---	---	---	---	---	99	---	---	---	-6	1.0	34
	KS3494	73.0	56.3	40.9	73.7	64.6	56.7	60.9	100	104	119	103	-5	1.3	39
	RESNIK	71.9	54.0	35.0	69.2	63.0	53.6	57.5	99	100	102	97	-4	1.5	35
STINE	3660	72.8	---	---	---	---	---	---	100	---	---	---	-4	1.0	36
	PROBST	71.9	56.3	37.7	73.5	64.1	55.3	59.9	99	104	110	103	-3	1.5	39
	MACON	77.9	52.0	37.3	---	64.9	55.7	---	107	96	108	---	-3	1.0	34
	SHERMAN	72.3	51.0	36.3	76.1	61.7	53.2	58.9	100	95	105	106	-2	1.0	38
	EDISON	70.4	52.3	32.7	75.7	61.3	51.8	57.8	97	97	95	106	-2	1.3	39
PIONEER	9395	79.6	---	---	---	---	---	---	110	---	---	---	-1	1.0	37
	FLYER	72.2	54.0	34.2	68.4	63.1	53.5	57.2	99	100	99	96	9/30	1.8	41
PIONEER	94B41	69.4	---	---	---	---	---	---	95	---	---	---	2	1.0	39
	WILLIAMS 82	60.4	54.0	30.6	61.9	57.2	48.3	51.7	83	100	89	87	2	1.5	42
	K1235	74.0	54.8	31.8	72.1	64.4	53.5	58.2	102	101	92	101	3	2.3	41
	STRESSLAND	74.8	60.0	33.8	71.2	67.4	56.2	59.9	103	111	98	100	3	1.3	41
	KS4694	77.3	58.5	26.7	67.3	67.9	54.2	57.5	106	108	78	94	7	1.5	44
TEST AVERAGES		72.7	54.0	34.4	71.5										
LSD (.10)		5.9	4.1	5.3	5.1										
LSD (.1 BETWEEN MATURITY GROUPS) 6.3 5.5 7.5 6.1															
MATURITY IS MEASURED AS DAYS EARLIER OR LATER THAN FLYER															
LODGING SCORE IS BASED ON 1-5 SCALE WITH 1=EXCELLENT, 5=POOR															



TABLE 13. CHEROKEE COUNTY SOYBEAN PERFORMANCE ON SOIL INFESTED WITH SOYBEAN CYST NEMATODE, RACE 3 (DRYLAND), 1994-1997.

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE			MAT LODGING SCORE	HT IN		
		1997	1996	1995	1994	2-Yr	3-Yr	4-Yr	1997	1996	1995			1994	
MATURITY GROUPS IV-V															
MIDLAND	8401	30.3	28.2	---	---	29.2	---	---	80	93	---	---	-1	1.0	25
WILLCROSS	AP-40N	35.6	---	---	---	---	---	---	94	---	---	---	0	1.0	29
WILLCROSS	9539N+	36.7	---	---	---	---	---	---	97	---	---	---	0	1.0	30
	FLYER	27.9	25.3	18.1	20.2	26.6	23.7	22.9	74	84	67	57	9/28	1.0	24
DYNA-GRO	3395	32.2	---	---	---	---	---	---	85	---	---	---	1	1.0	25
WILLCROSS	9541N	40.6	32.9	---	---	36.8	---	---	107	109	---	---	2	1.0	27
PATRIOT	412N	40.1	---	---	---	---	---	---	106	---	---	---	2	1.0	30
DELANGE	DS-466	31.2	38.0	---	---	34.6	---	---	82	126	---	---	3	1.0	26
HOEGEMEYER	471 SCN	37.5	---	---	---	---	---	---	99	---	---	---	3	1.0	34
NC+	4A27	39.5	32.8	30.3	41.3	36.2	34.2	36.0	104	109	112	116	3	1.0	28
	STRESSLAND	32.9	26.7	19.3	---	29.8	26.3	---	87	88	72	---	3	1.0	30
MYCOGEN	429	25.9	31.7	25.6	---	28.8	27.7	---	68	105	95	---	3	1.0	28
DEKALB	CX450C	31.7	---	---	---	---	---	---	84	---	---	---	3	1.3	32
MERSCHMAN	RICHMOND IV	38.2	---	---	---	---	---	---	101	---	---	---	3	1.0	28
GOLDEN HARVEST	H-1454	34.8	29.9	25.6	---	32.4	30.1	---	92	99	95	---	3	1.0	32
STINE	4292	37.7	---	---	---	---	---	---	100	---	---	---	4	1.0	31
PIONEER	94B41	41.7	---	---	---	---	---	---	110	---	---	---	4	1.0	29
PATRIOT	452N	37.2	---	---	---	---	---	---	98	---	---	---	4	1.0	33
MSIA	MAGELLAN	34.4	---	---	---	---	---	---	91	---	---	---	4	1.0	29
DYNA-GRO	3444N	40.9	32.7	---	---	36.8	---	---	108	108	---	---	5	1.0	28
MSIA	MUSTANG	40.3	---	---	---	---	---	---	106	---	---	---	5	1.0	32
GARST	EX 7470N	41.3	---	---	---	---	---	---	109	---	---	---	6	1.0	32
WILLCROSS	9644N	40.1	34.6	---	---	37.3	---	---	106	115	---	---	6	1.0	36
MIDLAND	8475	40.1	33.9	28.4	39.3	37.0	34.1	35.4	106	112	105	110	6	1.0	32
NOVARTIS	S46-44	39.8	34.1	27.3	33.6	37.0	33.8	33.7	105	113	102	95	6	1.0	34
PATRIOT	457N	45.0	---	---	---	---	---	---	119	---	---	---	7	1.0	30
TERRA	TS4792 (E4792)	38.9	31.5	27.5	33.8	35.2	32.7	32.9	103	104	102	95	7	1.3	40
	DELSOY 4710	34.9	31.4	26.9	39.2	33.2	31.1	33.1	92	104	100	110	7	1.8	38
HORNBECK	HBK 4600	38.9	---	---	---	---	---	---	103	---	---	---	8	1.0	30
WILLCROSS	467	35.4	---	---	---	---	---	---	93	---	---	---	8	1.0	34
GARST	D473	39.8	32.6	---	---	36.2	---	---	105	108	---	---	8	1.5	34
PIONEER	9492	40.7	---	---	---	---	---	---	107	---	---	---	9	1.0	28
PATRIOT	482N	37.9	---	---	---	---	---	---	100	---	---	---	9	1.0	34
GOLDEN HARVEST	X 487	40.3	---	---	---	---	---	---	106	---	---	---	9	1.0	34
NOVARTIS	3505	40.4	---	---	---	---	---	---	107	---	---	---	11	2.0	28
TERRA	TS504	41.3	31.0	---	---	36.1	---	---	109	103	---	---	11	2.0	29
WILLCROSS	9650N	40.3	32.6	---	---	36.5	---	---	106	108	---	---	12	1.5	28
GOLDEN HARVEST	H-1500	38.6	31.3	30.4	---	34.9	33.4	---	102	104	113	---	13	1.8	28
DEKALB	CX510C	41.7	32.0	---	---	36.9	---	---	110	106	---	---	13	1.3	27
	STAFFORD	32.2	25.7	20.9	29.3	29.0	26.3	27.0	85	85	78	82	14	1.0	25
MIDLAND	XP530N	41.4	---	---	---	---	---	---	109	---	---	---	14	1.8	28
	K1307	37.8	30.5	---	---	34.1	---	---	100	101	---	---	15	2.0	28
ESSEX	34.2	22.2	19.3	28.8	28.2	25.2	26.1	74	90	74	72	81	15	1.0	25
NOVARTIS	S57-11	41.2	33.4	28.4	---	37.3	34.3	---	109	111	105	---	15	2.0	37
	MANOKIN	40.7	37.4	32.3	42.2	39.1	36.8	38.2	108	124	120	119	17	2.8	30

(CONTINUED)

TABLE 13. CHEROKEE COUNTY SOYBEAN PERFORMANCE ON SOIL INFESTED WITH SOYBEAN CYST NEMATODE, RACE 3 (DRYLAND), 1994-1997.

BRAND	ENTRY	YIELD (Bu/A)							YIELD AS % OF TEST AVERAGE				MAT LODGING SCORE	HT IN	
		1997	1996	1995	1994	2-Yr	3-Yr	4-Yr	1997	1996	1995	1994			
NC+	5A44	41.9	35.3	---	---	38.6	---	---	111	117	---	---	18	1.3	33
	9521	40.0	38.7	31.2	42.5	39.3	36.6	38.1	105	128	116	120	18	1.8	32
WILLCROSS	517	39.9	---	---	---	---	---	---	105	---	---	---	19	2.0	37
	KS5292	39.1	27.7	28.7	---	33.4	31.9	---	103	92	107	---	19	1.3	29
MIDLAND	XP521N	42.7	---	---	---	---	---	---	113	---	---	---	20	1.5	28
	HOLLADAY	36.4	26.4	22.1	34.9	31.4	28.3	29.9	96	87	82	98	20	1.0	25
DELSOY 5500	---	40.4	---	---	---	---	---	---	107	---	---	---	22	1.0	29
	HUTCHESON	36.6	26.0	23.2	31.5	31.3	28.6	29.3	97	86	86	89	23	1.0	29
HARTWIG	---	38.3	28.2	30.5	36.1	33.3	32.4	33.3	101	94	113	101	26	3.0	33
	---	37.9	30.2	26.9	35.6	---	---	---	---	---	---	---	---	---	---
TEST AVERAGES	---	37.9	30.2	26.9	35.6	---	---	---	---	---	---	---	---	---	---
LSD (.10)	---	4.1	3.8	2.7	3.6	---	---	---	---	---	---	---	---	---	---

MATURITY IS MEASURED AS DAYS EARLIER OR LATER THAN FLYER  
 LODGING SCORE IS BASED ON 1-5 SCALE WITH 1=EXCELLENT, 5=POOR

TABLE 14. YIELD AS % OF TEST AVERAGE FROM 1997 LOCATIONS. (CONTINUED)

BRAND	NAME	BRO	SHA	FRA	CHE	RPD	RPI	HAR	STA	THO	FIN	SCN	AVG
	CRAWFORD	---	---	82	80	---	---	---	---	---	---	---	81
	DELLOY 4710	---	---	---	89	---	---	---	---	---	---	92	89
	DELLOY 5500	---	---	---	112	---	---	---	---	---	---	107	112
	EDISON	91	114	88	96	56	112	101	96	97	120	---	97
	ESSEX	---	---	---	93	---	---	---	---	---	---	---	90
	FLYER	96	109	97	91	90	103	114	93	99	107	74	100
	HAMILTON	101	94	---	---	143	110	---	---	---	---	---	112
	HARTWIG	---	---	---	78	---	---	---	---	---	---	101	78
	HOLLADAY	---	---	---	100	---	---	---	---	---	---	---	96
	HUTCHESON	---	---	---	101	---	---	---	---	---	---	---	97
	IA2022	99	96	83	87	64	96	84	97	97	75	---	88
	K1235	97	99	99	108	93	88	92	82	102	105	---	97
	K1276	---	---	---	105	---	---	---	---	---	---	---	105
	K1277	---	---	---	122	---	---	---	---	---	---	---	122
	K1307	---	---	---	97	---	---	---	---	---	---	100	97
	KS3494	103	121	89	90	143	113	93	96	100	112	---	106
	KS4694	93	86	105	112	77	84	81	95	106	84	---	92
	KS4895	---	---	95	101	---	---	---	---	---	---	---	98
	KS4997	---	---	---	112	---	---	---	---	---	---	---	112
	KS5292	---	---	---	94	---	---	---	---	---	---	103	94
	MACON	103	104	101	102	84	93	114	108	107	118	---	103
	MANOKIN	---	---	---	95	---	---	---	---	---	---	108	95
	PROBST	98	86	93	102	111	99	103	110	99	112	---	101
	RESNIK	92	120	87	91	70	87	90	79	99	91	---	91
	SHERMAN	98	85	102	98	69	107	97	112	100	105	---	97
	STAFFORD	---	---	---	101	---	---	---	---	---	---	85	101
	STRESSLAND	95	102	94	101	144	97	94	109	103	114	87	105
	WILLIAMS 82	93	88	97	97	50	79	67	82	83	75	---	81
AGRIPRO	AP 3868	102	---	92	---	---	---	---	---	---	---	---	97
AGRIPRO	AP 3880	95	---	100	---	---	---	---	---	---	79	---	91
AGRIPRO	AP 4400	---	---	103	---	---	---	98	---	---	102	---	101
AGRIPRO	AP 4500	---	---	104	---	---	---	106	---	---	109	---	106
ADVANCED GENETICS	BLAZER	104	103	---	---	106	97	---	---	---	---	---	103
ADVANCED GENETICS	CELEBRITY	---	---	---	---	91	---	---	---	---	---	---	91
ADVANCED GENETICS	EXPRESS II	105	79	---	---	95	102	119	95	---	---	---	99
ADVANCED GENETICS	GALAXY	---	102	92	---	102	96	116	109	---	---	---	103
ADVANCED GENETICS	LEGACY II	---	78	97	---	---	---	---	---	---	---	---	88
ADVANCED GENETICS	QUEST	104	109	---	---	129	98	---	---	---	---	---	110
ASGROW	A3244	108	---	---	---	---	88	100	98	---	---	---	99
ASGROW	A3834	---	104	115	---	116	---	107	99	---	85	---	104
ASGROW	A3904	---	---	99	---	---	---	---	---	---	---	---	99
ASGROW	A4341	---	---	106	---	---	---	105	101	---	89	---	100
ASGROW	A4922	---	---	---	104	---	---	---	---	---	---	---	104
ASGROW	A5547	---	---	---	102	---	---	---	---	---	---	---	102
DEKALB	CX348	106	---	---	---	---	---	---	---	---	---	---	106
DEKALB	CX351	98	---	---	---	130	---	---	---	---	---	---	114
DEKALB	CX368	---	108	93	---	---	---	---	---	---	---	---	101
DEKALB	CX373	95	---	---	---	---	111	---	80	---	---	---	95
DEKALB	CX377	---	---	---	---	---	115	---	---	---	---	---	115
DEKALB	CX399	---	94	104	---	---	---	110	---	---	---	---	103
DEKALB	CX411	102	112	---	---	---	122	---	---	---	111	---	112
DEKALB	CX434	---	---	---	---	---	---	---	93	---	---	---	93
DEKALB	CX445	---	---	102	91	---	---	---	111	---	99	---	101
DEKALB	CX450C	---	---	---	---	---	---	---	---	---	---	84	---
DEKALB	CX494	---	---	---	101	---	---	---	---	---	---	---	101
DEKALB	CX510C	---	---	---	---	---	---	---	---	---	---	110	---
DELANGE	DS-390	---	---	---	---	---	---	69	102	---	---	---	86
DELANGE	DS-410	---	99	101	104	---	---	96	88	---	---	---	98
DELANGE	DS-454	---	111	105	102	---	---	113	113	---	---	---	109
DELANGE	DS-466	---	---	---	---	---	---	---	---	---	---	82	---
DELANGE	DS-485	---	---	94	100	---	---	---	---	---	---	---	97

(CONTINUED)

TABLE 14. YIELD AS % OF TEST AVERAGE FROM 1997 LOCATIONS. (CONTINUED)

BRAND	NAME	BRO	SHA	FRA	CHE	RPD	RPI	HAR	STA	THO	FIN	SCN	AVG
DYNA-GRO	3367	96	---	105	---	71	---	---	---	---	---	---	91
DYNA-GRO	3368	90	92	101	---	91	---	---	96	---	---	---	94
DYNA-GRO	3378N	---	87	---	---	---	---	---	---	---	---	---	87
DYNA-GRO	3395	100	104	106	109	118	---	112	94	---	---	85	106
DYNA-GRO	3444N	---	100	---	---	---	---	---	---	---	---	108	100
FONTANELLE	3373 (EXP9474)	86	---	---	---	132	---	---	---	---	---	---	109
FONTANELLE	6104	94	---	---	---	---	---	---	---	---	---	---	94
FREEDOM	4355	---	---	---	---	---	---	---	---	---	101	---	101
FREEDOM	4437	---	---	---	---	---	---	---	---	---	84	---	84
GARST	D454	99	---	---	---	---	---	---	---	---	---	---	99
GARST	D473	---	---	---	---	---	---	---	---	---	---	105	---
GARST	EX 7357	---	---	---	---	104	99	---	---	---	---	---	102
GARST	EX 7398	113	---	109	---	74	108	---	108	---	---	---	102
GARST	EX 7470N	---	---	---	95	---	---	---	---	---	---	109	95
GARST	SC 400	---	---	---	---	---	---	---	105	---	---	---	105
GOLDEN HARVEST	H-1353	---	116	---	---	---	---	---	---	---	---	---	116
GOLDEN HARVEST	H-1388	104	91	99	---	---	---	---	---	---	---	---	98
GOLDEN HARVEST	H-1454	---	---	---	---	---	---	---	---	---	---	92	---
GOLDEN HARVEST	H-1500	---	---	---	---	---	---	---	---	---	---	102	---
GOLDEN HARVEST	X 487	---	---	---	---	---	---	---	---	---	---	106	---
HAMON	H-447	105	111	---	---	---	---	---	---	---	---	---	108
HOEGEMEYER	312	---	---	---	---	---	114	---	---	---	---	---	114
HOEGEMEYER	365	102	88	100	---	---	110	---	---	---	---	---	100
HOEGEMEYER	380	108	110	---	---	---	107	---	---	---	---	---	108
HOEGEMEYER	401	103	107	97	---	---	---	---	---	---	---	---	102
HOEGEMEYER	435	98	105	98	---	---	---	---	---	---	---	---	100
HOEGEMEYER	471 SCN	---	---	98	---	---	---	---	---	---	---	99	98
HORNBECK	HBK 4600	---	---	90	95	---	---	90	---	---	---	103	92
LEWIS	349	102	---	---	---	---	---	---	---	---	---	---	102
LEWIS	360	100	---	---	---	---	---	---	---	---	---	---	100
LEWIS	390	115	---	109	---	---	---	---	---	---	---	---	112
MERSCHMAN	ATLANTA III	---	---	104	---	---	---	---	---	---	---	---	104
MERSCHMAN	EISENHOWER IV	94	---	---	---	---	---	---	---	---	---	---	94
MERSCHMAN	FILLMORE IV	115	---	---	---	---	---	---	---	---	---	---	115
MERSCHMAN	MADISON V	114	---	---	---	---	---	---	---	---	---	---	114
MERSCHMAN	RICHMOND IV	---	---	---	---	---	---	---	---	---	---	101	---
MIDLAND	8282 (XP282)	---	---	---	---	---	94	---	---	---	---	---	94
MIDLAND	8321 (XP321)	---	---	---	---	134	109	---	---	---	---	---	122
MIDLAND	8333STS(XP333STS)	---	---	---	---	---	90	---	---	---	---	---	90
MIDLAND	8355	104	94	---	---	128	111	---	---	---	---	---	109
MIDLAND	8356	---	---	---	---	---	100	---	---	---	---	---	100
MIDLAND	8371 (XP371)	106	105	---	---	109	96	113	106	---	---	---	106
MIDLAND	8375	---	---	---	---	---	---	---	88	---	---	---	88
MIDLAND	8377RR	88	96	105	---	101	107	97	96	---	104	---	99
MIDLAND	8386STS	---	104	---	---	89	92	97	119	---	---	---	100
MIDLAND	8393	90	---	95	---	---	---	---	---	---	86	---	90
MIDLAND	8397RR	---	---	98	---	---	---	---	---	---	---	---	98
MIDLAND	8401	---	---	99	---	---	---	---	---	---	---	80	99
MIDLAND	8410	104	102	104	102	---	---	---	---	---	---	---	103
MIDLAND	8413	---	---	106	106	---	---	---	---	---	---	---	106
MIDLAND	8431 (XP431)	---	97	105	110	82	---	102	---	---	---	---	99
MIDLAND	8433RR	---	94	---	95	88	103	91	98	---	77	---	92
MIDLAND	8475	---	---	---	100	---	---	---	---	---	---	106	100
MIDLAND	8486	---	---	102	101	---	---	---	---	---	---	---	102
MIDLAND	8487NB	---	---	---	111	---	---	---	---	---	---	---	111
MIDLAND	XP291RR	---	---	---	---	105	100	---	---	---	---	---	103
MIDLAND	XP341RR	---	81	---	---	114	94	95	99	---	78	---	94
MIDLAND	XP342RR	---	---	---	---	70	85	---	---	---	---	---	78
MIDLAND	XP361RR	---	95	---	---	---	---	---	---	---	---	---	95
MIDLAND	XP362	112	101	---	---	---	---	---	---	---	---	---	107

(CONTINUED)

TABLE 14. YIELD AS % OF TEST AVERAGE FROM 1997 LOCATIONS. (CONTINUED)

BRAND	NAME	BRO	SHA	FRA	CHE	RPD	RPI	HAR	STA	THO	FIN	SCN	AVG
MIDLAND	XP381RR	---	---	---	---	---	---	93	---	---	---	---	93
MIDLAND	XP391	---	---	96	---	80	---	96	---	---	---	---	91
MIDLAND	XP412	---	106	94	---	---	---	97	---	---	---	---	99
MIDLAND	XP414RR	---	109	85	---	56	86	96	95	---	102	---	90
MIDLAND	XP521N	---	---	---	98	---	---	---	---	---	---	113	98
MIDLAND	XP530N	---	---	---	110	---	---	---	---	---	---	109	110
MSG(OHLDE)	G 3141	---	---	---	---	---	---	---	100	---	---	---	100
MSG(OHLDE)	G 3242	---	---	---	---	---	---	115	---	---	---	---	115
MSG(OHLDE)	G 3300	---	---	---	---	---	110	---	---	---	---	---	110
MSG(OHLDE)	G 3608RR	---	112	---	---	---	94	---	---	---	---	---	103
MSG(OHLDE)	G 3996	110	118	104	---	84	99	122	113	---	107	---	107
MSG(OHLDE)	O 4440	103	---	105	---	83	---	---	---	---	---	---	97
MSG(OHLDE)	G 4555	---	---	109	---	122	---	---	---	---	---	---	116
MSIA	MAGELLAN	106	88	98	83	---	---	---	---	---	---	91	94
MSIA	MAVERICK	97	98	100	---	---	---	---	---	---	---	---	98
MSIA	MUSTANG	98	96	98	89	---	---	---	---	---	---	106	95
MYCOGEN	429	96	88	91	---	---	89	---	---	---	---	68	91
MYCOGEN	5373	103	100	101	---	---	103	---	---	---	---	---	102
MYCOGEN	5404	98	---	---	93	128	---	107	---	---	---	---	107
NC+	2A91	---	---	---	---	---	---	---	100	---	---	---	100
NC+	3A25	---	---	---	---	---	---	---	102	---	---	---	102
NC+	3A44	87	---	---	---	---	---	---	---	---	---	---	87
NC+	3A67	99	---	112	---	140	99	92	101	---	105	---	107
NC+	4A10	101	104	---	---	128	112	115	120	---	118	---	114
NC+	4A27	---	101	100	---	---	---	---	94	---	---	104	98
NC+	4A47	---	---	108	109	---	---	---	---	---	---	---	109
NC+	5A44	---	---	---	95	---	---	---	---	---	---	111	95
NECO	7446	---	97	101	---	73	98	---	---	---	---	---	92
NOVARTIS	3474	---	---	102	102	---	---	---	---	---	---	---	102
NOVARTIS	3505	---	---	---	94	---	---	---	---	---	---	107	94
NOVARTIS	S33-P2	---	94	109	---	---	---	---	---	---	---	---	102
NOVARTIS	S36-Q6	106	---	---	---	---	---	---	---	---	---	---	106
NOVARTIS	S38-L5	114	---	---	---	130	---	---	---	---	---	---	122
NOVARTIS	S42-60	95	123	106	---	---	99	---	---	---	---	---	106
NOVARTIS	S43-B5	100	---	---	---	---	98	---	---	---	---	---	99
NOVARTIS	S46-44	---	---	99	94	---	---	---	---	---	---	105	97
NOVARTIS	S57-11	---	---	---	108	---	---	---	---	---	---	109	108
PATRIOT	380	104	90	101	---	---	---	---	---	---	105	---	100
PATRIOT	383N	98	---	---	---	---	---	---	---	---	---	---	98
PATRIOT	388	102	106	95	---	---	---	---	---	---	108	---	103
PATRIOT	391	98	106	107	---	---	---	---	---	---	116	---	107
PATRIOT	398	97	75	98	---	---	---	---	---	---	111	---	95
PATRIOT	412N	---	---	---	---	---	---	---	---	---	---	106	---
PATRIOT	452N	---	---	---	---	---	---	---	---	---	---	98	---
PATRIOT	457N	---	---	---	---	---	---	---	---	---	---	119	---
PATRIOT	482N	---	---	---	---	---	---	---	---	---	---	100	---
PATRIOT	488	---	---	---	---	---	---	---	---	---	93	---	93
PIONEER	9352	---	---	---	---	---	---	---	99	---	---	---	99
PIONEER	9362	---	---	---	---	---	---	101	---	---	---	---	101
PIONEER	9395	101	91	101	---	113	111	104	107	110	94	---	104
PIONEER	9396	89	---	---	---	---	---	---	---	---	---	---	89
PIONEER	93B51	89	102	---	---	---	95	---	---	---	---	---	95
PIONEER	93B82	---	---	---	---	---	---	---	99	---	---	---	99
PIONEER	93B83	---	---	---	---	---	---	---	---	---	95	---	95
PIONEER	9412	---	---	---	---	---	---	102	---	---	---	---	102
PIONEER	9421	---	---	---	---	---	---	---	109	---	100	---	105
PIONEER	9492	---	---	---	---	---	---	---	---	---	---	107	---
PIONEER	94B01	---	86	93	---	126	---	---	---	---	---	---	102
PIONEER	94B41	---	---	100	---	---	---	---	---	95	---	110	98
PIONEER	9521	---	---	---	---	---	---	---	---	---	---	105	---

(CONTINUED)

TABLE 14. YIELD AS % OF TEST AVERAGE FROM 1997 LOCATIONS. (CONTINUED)

BRAND	NAME	BRO	SHA	FRA	CHE	RPD	RPI	HAR	STA	THO	FIN	SCN	AVG
STINE	3290	---	85	---	---	---	---	---	---	---	---	---	85
STINE	3660	111	100	102	---	105	---	---	---	100	95	---	102
STINE	3683	101	---	---	---	61	---	---	102	---	96	---	90
STINE	3870	---	92	109	111	---	100	109	96	---	105	---	103
STINE	3883	---	94	---	102	112	---	---	---	---	---	---	103
STINE	4292	---	---	---	---	---	---	---	---	---	---	100	---
STINE	4562	---	91	107	---	---	---	---	---	---	---	---	99
STINE	4650	---	---	---	112	---	---	---	---	---	---	---	112
STINE	4680	---	---	105	---	---	---	---	---	---	---	---	105
TAYLOR	355	100	109	---	---	---	---	---	---	---	---	---	105
TAYLOR	395	105	---	98	---	---	---	---	---	---	---	---	102
TAYLOR	396	---	124	109	---	---	---	---	---	---	---	---	117
TAYLOR	454	---	---	107	---	---	---	---	---	---	---	---	107
TAYLOR	470	---	---	105	---	---	---	---	---	---	---	---	105
TERRA	E364T	104	109	106	100	---	---	---	---	---	---	---	105
TERRA	E387	97	111	109	106	---	---	---	---	---	---	---	106
TERRA	TS415 (E415)	110	111	109	92	---	---	---	---	---	---	---	106
TERRA	TS474 (E474)	92	105	103	126	---	---	---	---	---	---	---	107
TERRA	TS4792 (E4792)	---	---	---	---	---	---	---	---	---	---	103	---
TERRA	TS504	---	---	---	---	---	---	---	---	---	---	109	---
WILLCROSS	357	82	96	90	---	81	96	---	---	---	---	---	89
WILLCROSS	397	92	103	92	---	96	90	---	---	---	---	---	95
WILLCROSS	398	---	98	99	102	---	---	---	---	---	---	---	100
WILLCROSS	407	---	95	94	91	---	---	---	---	---	---	---	93
WILLCROSS	467	---	---	84	101	---	---	---	---	---	---	---	93
WILLCROSS	517	---	---	---	94	---	---	---	---	---	---	105	94
WILLCROSS	92	90	105	103	107	71	95	---	---	---	---	---	95
WILLCROSS	9447	---	---	103	91	---	---	---	---	---	---	---	97
WILLCROSS	9536	99	108	101	---	115	102	---	---	---	---	---	105
WILLCROSS	9539N+	---	---	95	---	---	---	---	---	---	---	---	97
WILLCROSS	9541N	---	---	---	---	---	---	---	---	---	---	---	107
WILLCROSS	9639	---	102	96	---	127	92	---	---	---	---	---	104
WILLCROSS	9640	---	108	103	100	125	103	---	---	---	---	---	108
WILLCROSS	9644N	---	---	99	---	---	---	---	---	---	---	106	99
WILLCROSS	9650N	---	---	---	108	---	---	---	---	---	---	106	108
WILLCROSS	9738	96	96	103	---	131	104	---	---	---	---	---	106
WILLCROSS	9741	108	100	105	---	113	107	---	---	---	---	---	107
WILLCROSS	AP-40N	100	87	96	---	73	100	---	---	---	---	94	91
WILSON	3380	---	---	---	---	---	---	106	98	---	---	---	102
WILSON	3670	---	---	---	---	---	---	95	96	---	---	---	96

\* BRO = BROWN COUNTY, SHA = SHAWNEE COUNTY, FRA = FRANKLIN COUNTY, CHE = CHEROKEE 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).



TABLE 15. DESCRIPTION OF ENTRIES IN 1997 SOYBEAN PERFORMANCE TEST. \* (CONTINUED)

BRAND	NAME	MG	VT	FC	HI	PU	PD	SCN			SOURCE	PHYTO		SHAT	
								R1	R3	R14		RR	TOL		
	CRAWFORD	IV	PL	P	BL	T	BR	S	S	S		S		1	
	DELLOY 4710	IVS	PL	P	BL	T		S	R	R	PI209332 Peking/PI88788	S		2	
	DELLOY 5500	V	PL	W		T	T		R	MR		S		2	
	EDISON	III	PL	P	BL	T	T	S	S	S		S	RPS1k		1
	ESSEX	V	PL	P	BF	G		S	S	S		S	S		1
	FLYER	IV	PL	P	BL	T	T	S	S	S		S	RPS1k		1
	HAMILTON	IV	PL	W	BF	G	T	S	S	S	PI437654	S		1	
	HARTWIG	V	PL	W	BL	T		R	R	R		S		2	
	HOLLADAY	V	PL	P	BF	G	T	S	S	S		S		2	
	HUTCHESON	V	PL	W	BF	G	T	S	S	S		S		2	
	IA2022	II	PL	P	BL	G	BR	S	S	S		S		2	
	K1235	IV	PL							S		S	S		2
	K1276	V	PL							S		S		2	
	K1277	V	PL							S		S		2	
	K1307	V	PL							R		S		1	
	KS3494	III	PL	P	BL	T	BR	S	S	S		S		2	
	KS4694	IV	PL	W	BF	G	BR	S	S	S		S		2	
	KS4895	IVS	PL	P	BL	G	T	S	S	S		S		2	
	KS4997	IVS	PL	W	BL	T	T	S	S	S	PEKING	S		1	
	KS5292	V	PL	W	BF	G	T	R	R	S		S	S		1
	MACON	III	PL	W	BL	T	BR	S	S	S	PEKING	S		1	
	MANOKIN	V	PL	W	BL	T	T	R	R	S		S	S		2
	PROBST	III	PL	P	BL	T	T	S	S	S		S	RPS1k		2
	RESNIK	III	PL	P	BL	T	T	S	S	S		S	RPS1k		1
	SHERMAN	III	PL	W	BF	G	BR	S	S	S			S		1
	STAFFORD	V	PL	P	IB	G	T	S	S	S		S		1	
	STRESSLAND	IV	PL	P	BL	T	T	S	S	S		S		2	
	WILLIAMS 82	III	PL	W	BL	BR	T	S	S	S		RPS1k		2	
AGRIPRO	AP 3868	III	PL	W	BL	T	T	S	S	S		RPS1k	2.5	2	
AGRIPRO	AP 3880	III	PL	P	BL	T	T	S	S	S		RPS1c	2.3	1	
AGRIPRO	AP 4400	IV	PL	W	BL	T	BR	S	S	S		RPS1k	2.8	1	
AGRIPRO	AP 4500	IV	PL	P	BL	T	BR	S	S	S		RPS1c	2.0	2	
APPLIED GENETICS	BLAZER	III	PL					S	S	S				2	
APPLIED GENETICS	CELEBRITY	III	PL	P	BL	BR	T	S	S	S				1	
APPLIED GENETICS	EXPRESS II	III	PL	P	BF	G	T	S	S	S				1	
APPLIED GENETICS	GALAXY	III	PL	P	BR	T	T	S	S	S				1	
APPLIED GENETICS	LEGACY II	IV	PL					S	S	S				1	
APPLIED GENETICS	QUEST	III	PL	W	BF	G	BR	S	S	S				1	
ASGROW	A3244	III	PL	P	IB	G	BR					RPS1c	4.0	2	
ASGROW	A3834	III	PL	P	BL	T	BR						2.0	2	
ASGROW	A3904	III	PL	P	IB	G	BR		R	R			3.0	2	
ASGROW	A4341	IV	PL	P	BL	T	BR					RPS1k	3.0	2	
ASGROW	A4922	IV	PL	W	BL	T	T		R	R			4.0	1	
ASGROW	A5547	V	PL	W	BF	G	T		R	R			3.0	1	
DEKALB	CX348	III	PL	P	BL	T	T	S	S	S		S	4.0	2	
DEKALB	CX351	III	PL	P	BL	T	T	S	S	S		RPS1c	2.0	2	
DEKALB	CX368	III	PL	W	BL	T	T	S	S	S		RPS1c	2.0	1	
DEKALB	CX373	III	PL	W	BL	T	T	S	S	S		RPS1c	2.0	2	
DEKALB	CX377	III	PL	W	BL	T	T	S	S	S		RPS1c	2.0	2	
DEKALB	CX399	III	PL	W	BL	T	T	S	S	S		RPS1c	2.0	1	
DEKALB	CX411	IV	PL	W	BL	T	T	S	S	S		RPS1c	2.0	2	
DEKALB	CX434	IV	PL	P	BL	T	BR	S	S	S		RPS1c	2.0	2	
DEKALB	CX445	IV	PL	W	BL	T	BR	S	S	S		RPS1c	2.0	2	
DEKALB	CX450C	IV	PL	P	BL	T	T	S	R	S		H, RPS1k	2.0	2	
DEKALB	CX494	IV	PL	P	BL	T	BR	S	S	S		S	3.0	1	
DEKALB	CX510C	V	PL	W	BL	T	T	S	R	S		S	2.0	1	
DELANGE	DS-390	III	PL	W	BL	T	BR					RPS1c	3.5	2	
DELANGE	DS-410	IV	PL	P	BL	BR	BR					RPS1c	5.0	1	
DELANGE	DS-454	IV	PL	P	BL	T	BR					RPS1c	4.0	1	
DELANGE	DS-466	IV	PL	W	BL	T	T		R	R			4.0	1	
DELANGE	DS-485	IV	PL	P	BF	T	T						5.0	2	

(CONTINUED)

TABLE 15. DESCRIPTION OF ENTRIES IN 1997 SOYBEAN PERFORMANCE TEST. \* (CONTINUED)

BRAND	NAME	MG	VT	FC	HI	PU	PD	SCN			SOURCE	PHYTO			
								R1	R3	R14		RR	TOL	SHAT	
DYNA-GRO	3367	III	PL	W	BR	T	BR					RPS1c	7.0	2	
DYNA-GRO	3368	III	PL	P	BR	BR	T					RPS1c	7.0	2	
DYNA-GRO	3378N	III	PL	P	BL	T	T		R	MR		RPS1k	7.0	2	
DYNA-GRO	3395	III	PL	P/W	BR/BL	T	BR					RPS1c	7.0	2	
DYNA-GRO	3444N	IV	PL	W	BL	BR	T		R		PI88788		7.0	2	
FONTANELLE	3373 (EXP9474)	III	PL	W	BL	T	T	S	S	S			1.8	2	
FONTANELLE	6104	III	PL	P	BL	BR	T	S	S	S			1.9	2	
FREEDOM	4355	III												2	
FREEDOM	4437	IV												1	
GARST	D454	IV	PL	W	BF	G			R	MR	PI88788	RPS1a	3.0	1	
GARST	D473	IV	PL	P	BL	T			R	MR	PI88788			1	
GARST	EX 7357	III	PL	P	BR	T								2	
GARST	EX 7398	III	PL	W	BL	T								2	
GARST	EX 7470N	IV	PL	W	BL	T	BR		R	R				1	
GARST	SC 400	III	PL	P	BR	T								2	
GOLDEN HARVEST	H-1353	III	PL	P	IB	G	BR	S	S	S		RPS1a	1.8	2	
GOLDEN HARVEST	H-1388	III	PL	P	BL	T	BR	S	S	S		RPS1a	2.2	2	
GOLDEN HARVEST	H-1454	IV	PL	W	BF	G	BR	S	R	R	PI88788	RPS1a	2.3	2	
GOLDEN HARVEST	H-1500	V	PL	W	BL	T	T	S	R	S	PI88788		1.5	1	
GOLDEN HARVEST	X 487		PL	P	BL	T	T	S	R	R	PI88788		1.7	2	
HAMON	H-447	IV	PL	P	BL	T	BR					RPS1k	1.8	2	
HOEGEMEYER	312	III	PL	P	BL	T	BR							3	
HOEGEMEYER	365	III	PL	P	BR	T	BR							2	
HOEGEMEYER	380	III	PL	P	BR	T	BR							2	
HOEGEMEYER	401	IV	PL	P	BR	T	BR							2	
HOEGEMEYER	435	IV	PL	W	BL	T	BR							1	
HOEGEMEYER	471 SCN		PL	W	BF	G	BR		R					1	
HORNBECK	HBK 4600	IV	PL	W	BL	T	T		R	R			2.0	2	
LEWIS	349	III	PL		BF	G	BR	S	S	S		RPS1a	1.7	2	
LEWIS	360	III	PL		BF	G	BR	S	S	S		RPS1a	1.7	2	
LEWIS	390	III	PL		BL	T	BR	S	S	S			1.6	2	
MERSCHMAN	ATLANTA III	IV	PL	W	BL	T	T	S	S	S			2.0	2	
MERSCHMAN	EISENHOWER IV	III	PL	P	BL	T	BR	S	S	S		RPS1a	4.0	2	
MERSCHMAN	FILLMORE IV	III	PL	W	BR	T	BR	S	S	S		RPS1a	4.0	2	
MERSCHMAN	MADISON V	III	PL	W	BR	T	T	S	S	S		RPS1a	3.0	2	
MERSCHMAN	RICHMOND IV	IV	PL	P	BF	BR	BR	MS	R	MR	PI88788			2	
MIDLAND	8282 (XP282)	II	PL	P	IB	G	G	S	S	S				1	
MIDLAND	8321 (XP321)	III	PL	P	BL	BR	BR	S	S	S		RPS1k	1.9	2	
MIDLAND	8333STS(XP333STS)	III	PL	P	BL	T	T	S	S	S		S	2.7	1	
MIDLAND	8355	III	PL	P	IB	G	T	S	S	S		S	2.8	2	
MIDLAND	8356	III	PL	P	BL	BR	BR	S	S	S				2	
MIDLAND	8371 (XP371)	III	PL	P	BL	T	BR	S	S	S				2	
MIDLAND	8375	III	PL	P	BL	T	T	S	S	S		S	2.0	1	
MIDLAND	8377RR	III	PL	W	BL	T	T	S	S	S		S	1.5	1	
MIDLAND	8386STS	III	PL	P	BL	T	T	S	S	S		S	208.0	1	
MIDLAND	8393	III	PL	P	BL	T	T	S	S	S		S	3.0	1	
MIDLAND	8397RR	III	PL	P	BL	T	T	S	S	S		RPS1c	2.0	2	
MIDLAND		8401	IV	PL	W	BL	T	T	S	R	MR	PI88788	S	2.0	2
MIDLAND	8410	IV	PL	P	BR	T	T	S	S	S		S	4.0	2	
MIDLAND	8413	IV	PL	P	BL	T	T	S	S	S		RPS1c	4.0	2	
MIDLAND	8431 (XP431)	IV	PL	P	BL	T	T	S	S	S		RPS1k	2.0	2	
MIDLAND	8433RR	IV	PL	W	T	G	T	S	S	S				2	
MIDLAND	8475	IV	PL	W	BL	T	T	S	R	R	FAYETTE	S	4.0	2	
MIDLAND	8486	IV	PL	P	BL	BR	BR	S	S	S		S	2.0	2	
MIDLAND	8487NB	IV	B	M	BL	M	M	S	MR	MR	FAYETTE	S	3.0	2	
MIDLAND	XP291RR	II	PL	P	BL	T	BR	S	S	S		RPS1k	2.0	1	
MIDLAND	XP341RR	III	PL	W	BL	T	T	S	S	S			2.8	2	
MIDLAND	XP342RR	III	PL	P	BL	T	T	S	S	S		RPS1k	1.7	2	
MIDLAND	XP361RR	III	PL	P	BR	T	BR	S	S	S		RPS1a	5.0	2	
MIDLAND	XP362	III	PL	W	BR	T	B	S	S	S		RPS1a	6.0	2	

(CONTINUED)

TABLE 15. DESCRIPTION OF ENTRIES IN 1997 SOYBEAN PERFORMANCE TEST. \* (CONTINUED)

BRAND	NAME	MG	VT	FC	HI	PU	PD	SCN			SOURCE	PHYTO		
								R1	R3	R14		RR	TOL	SHAT
MIDLAND	XP381RR	III	PL	P	BL	T	BR	S	S	S		RPS1c	2.0	1
MIDLAND	XP391	III	PL	P	BR	T	T	S	S	S				1
MIDLAND	XP412	IV	PL	W	BL	T	BR							2
MIDLAND	XP414RR	IV	PL	P										1
MIDLAND	XP521N	V	PL	W	BF	G	T							2
MIDLAND	XP530N	V	PL	M	BL	T	T	S	MR	S			2.0	2
MSG(OHLDE)	G 3141	III	PL	P	BL	T	BR							2
MSG(OHLDE)	G 3242	III	PL	P	IB	G	BR					RPS1a	3.0	2
MSG(OHLDE)	G 3300	III	PL	W	BF	G	T							2
MSG(OHLDE)	G 3608RR	III	PL	P	BR	T	BR					RPS1a	1.7	1
MSG(OHLDE)	G 3996	III	PL	W	BL	T	BR							1
MSG(OHLDE)	O 4440	IV	PL	P	BL	T	BR							1
MSG(OHLDE)	G 4555	IV	PL	P	BL	T	T					RPS1c	1.9	1
MSIA	MAGELLAN	IV	PL	P	BF	G	T	S	S	S		S		2
MSIA	MAVERICK	IV	PL	P	BF	G	BR	S	R	MR	PI88788	RPS1k		2
MSIA	MUSTANG	III	PL	W	BF	G	T	S	R	R	PI88788	S		2
MYCOGEN	429	IV	PL	W	BF	G	BR	S	R	R		RPS1a	3.0	2
MYCOGEN	5373	III	PL	P	BR	T	BR	S	S	S		RPS1a	3.0	2
MYCOGEN	5404	IV	PL	W	BR	T	BR	S	S	S		RPS1a	4.0	2
NC+	2A91	II	PL	W	BR	G	BR						3.0	2
NC+	3A25	III	PL	P	BR	T	BR					RPS1a	3.0	2
NC+	3A44	III	PL	P	BL	T	T					RPS1k	3.0	1
NC+	3A67	III	PL	W	BF	G	BR					RPS1a	3.0	2
NC+	4A10	IV	PL	P	BR	T	T						3.0	2
NC+	4A27	IV	PL	P	BF	G	BR	R	R	R	PI88788		3.0	2
NC+	4A47	IV	PL	P	BL	T	BR						3.0	2
NC+	5A44	V	PL	P	IB	G	T	R	R	R	PI88788		3.0	2
NECO	7446	IV	PL	W	Y	G	BR	S	S	S				2
NOVARTIS	3474		PL	P	BL	T	BR	S	S	S		S	3.0	2
NOVARTIS	3505		PL	W	BL	T	T	S	R	S		S	1.0	2
NOVARTIS	S33-P2		PL	W	BR	T	BR	S	S	S		S	4.0	2
NOVARTIS	S36-Q6		PL	P	BR	T		S	S	S		S	3.0	2
NOVARTIS	S38-L5		PL	W	BR	T	BR	S	S	S		S	4.0	2
NOVARTIS	S42-60		PL	P	BR	T	T	S	S	S		S	3.0	2
NOVARTIS	S43-B5		PL	W	BR	T	T	S	S	S		RPS1c	3.0	2
NOVARTIS	S46-44		PL	P	BL	T	BR	S	R	MR		RPS1c	4.0	2
NOVARTIS	S57-11		PL	P	BL	T	BR	S	R	MR		RPS1c	2.0	2
PATRIOT	380		PL	P	BR	T	BR					S	1.0	2
PATRIOT	383N		PL	P	BL	T	T				PI88788	RPS1k	1.3	1
PATRIOT	388		PL	P	BL	T	BR					S	1.8	2
PATRIOT	391		PL	P	BL	T	T					RPS1a	1.0	2
PATRIOT	398		PL	W	BL	T	T					S	1.6	1
PATRIOT	412N	IV	PL	W	BL	T	T				PI88788	S	1.5	2
PATRIOT	452N	IV	PL	W	BL	G	BR	S	R	S	PI88788	RPS1a	2.3	1
PATRIOT	457N	IV	PL	W	BL	T	T	S	R	R	PI88788	S	2.0	2
PATRIOT	482N	IV	PL	W	BL	BR	T	S	R	S	PI88788	RPS1a	2.3	1
PATRIOT	488	IV	PL	P	BL	T	BR					S	2.0	2
PIONEER	9352		PL	W	BR	G	BR						4.0	2
PIONEER	9362		PL	W	BF	G	BR		R	R		RPS1c	4.0	2
PIONEER	9395		PL	W	BL	T	T						3.0	1
PIONEER	9396		PL	W	BL	T	T						5.0	1
PIONEER	93B51		PL	W	BL	T	T						5.0	2
PIONEER	93B82		PL	P	BL	T	BR					RPS1k	3.0	2
PIONEER	93B83		PL	P	BL	T	BR		R	MR			3.0	2
PIONEER	9412		PL	P	BL	T	T						5.0	1
PIONEER	9421		PL	W	BL	T	T						2.0	2
PIONEER	9492		PL	W	BL	T	T		R	R			5.0	2
PIONEER	94B01		PL	W	BL	T	T		R	R			4.0	2
PIONEER	94B41		PL	W	BF	G	T		R	R		RPS1c	2.0	2
PIONEER	9521		PL	P	BL	T	T	R	R			RPS1c	4.0	2

(CONTINUED)

TABLE 15. DESCRIPTION OF ENTRIES IN 1997 SOYBEAN PERFORMANCE TEST. \* (CONTINUED)

BRAND	NAME	MG	VT	FC	HI	PU	PD	SCN			SOURCE	PHYTO		SHAT
								R1	R3	R14		RR	TOL	
STINE	3290	III	PL	P	BL	T	BR	S	S	S			4.0	2
STINE	3660	III	PL	W	BR	T	BR	S	S	S		H,RPS1a	5.0	1
STINE	3683	III	PL	W	BL	G	T	S	S	S		RPS1a,3	4.0	2
STINE	3870	III	PL	P	BL	T	BR	S	S	S		RPS1a	4.0	2
STINE	3883	III	PL	W	BR	G	T	S	S	S			4.0	1
STINE	4292	IV	PL	W	BL	T	T	S	R	R			4.0	1
STINE	4562	IV	PL	P	G	T	T	S	S	S			7.0	2
STINE	4650	IV	PL	P	BL	T	BR	S	S	S			3.0	2
STINE	4680	IV	PL	P	BL	T	BR	S	S	S			3.0	2
TAYLOR	355	III	PL			T		S	S	S		RPS1a	2.0	1
TAYLOR	395	III	PL			T		S	S	S			1.8	1
TAYLOR	396	III	PL			T		S	S	S		RPS1a	2.0	2
TAYLOR	454		PL			T		S	S	S			2.0	2
TAYLOR	470		PL			T		S	S	S			2.0	2
TERRA	E364T	III	PL	W	BR	TW	BR	S	S	S		RPS1a	5.0	2
TERRA	E387	III	PL	W	BL	TW	BR	S	S	S				2
TERRA	TS415 (E415)	IV	PL	P/W	BL/BR	TW	BR	S	S	S		RPS1a	3.0	2
TERRA	TS474 (E474)	IV	PL	P	BL	TW	BR	S	S	S			3.0	2
TERRA	TS4792 (E4792)	IV	PL	P	BL	G	BR	S	R	R			3.0	2
TERRA	TS504	V	PL	W	BF	TW	T	S	R	R			2.0	1
WILLCROSS	357	III	PL	P	BR	T	BR							2
WILLCROSS	397	III	PL	P	BL	T	T							1
WILLCROSS	398	III	PL	W	BL	T	T							1
WILLCROSS	407	IV	PL	P	BL	T	T							2
WILLCROSS	467	IV	PL	W	BL	T	T							2
WILLCROSS	517	V	PL	P	IB	G	T							2
WILLCROSS	92	III	PL	P	BL	T	T							1
WILLCROSS	9447	IV	PL	P	BL	T	BR							2
WILLCROSS	9536	III	PL	P	BR	T	BR							1
WILLCROSS	9539N+	III	PL	W	BF	G	T		R	R				2
WILLCROSS	9541N	IV	PL	W	BF	G	BR		R	R				2
WILLCROSS	9639	III	PL	W	BL/BR	T	BR	S	S	S				1
WILLCROSS	9640	IV	PL	P/W	BL/BR	T	BR							2
WILLCROSS	9644N	IV	PL	P	BL	T	T		R	R				2
WILLCROSS	9650N	IV	PL	W	BL	T	T		R					1
WILLCROSS	9738	III	PL	P	BL	T	BR							2
WILLCROSS	9741	IV	PL	P	BL	T	T							1
WILLCROSS	AP-40N	IV	PL	W	BF	G	BR		R					1
WILSON	3380		PL	W	BF	G	T	S	S	S			2.5	2
WILSON	3670		PL	P	BR	T	BR	S	S	S		RPS1a	1.8	2

\* 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, H= HETEROGENEOUS; TOL = FIELD TOLERANCE SCORE WITH 1 = EXCELLENT TO 9 = POOR; SHAT = SHATTERING, 1 = NO SHATTERING, 2 = 1 TO 10% SHATTERING.  
ALL INFORMATION EXCEPT SHATTERING SCORES SUPPLIED BY ENTRANT.

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