



# Missouri Crop Performance

## 1977

### Part I: Grain Sorghum

### Part II: Soybeans

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## PART I, GRAIN SORGHUM

### INTRODUCTION

#### Locations

Grain sorghum performance trials were planted at six locations in 1977. They were: North Missouri Center near Spickard in Grundy County, Greenley Memorial Center near Novelty in Knox County, Agronomy Research Center near Columbia in Boone County, Southwest Center near Mt. Vernon in Lawrence County, Joe Hoffmeister farm near Cape Girardeau in Cape Girardeau County, and the W.L. Conner farm near Parma in Stoddard County. See Fig. 1 location of sites in various parts of the state.

#### Selection of a Hybrid

Small differences in yield should not be overemphasized since there was considerable inherent variability in the soil at each evaluation site. Special planting arrangements and use of the statistical procedure called analysis of variance, from which the L.S.D. (least significant difference) value is computed, help make valid yield comparisons. The L.S.D. value, found at the bottom of the 1977 tables, simply states how much one hybrid must differ from another in yield to be reasonably confident of superior or inferior performance. Since we are presenting L.S.D. values at two levels of probability, 5 and 20%, additional explanation on the use of this statistic is hereby presented. The L.S.D. value at the 5% probability level indicates how much two hybrids must differ from each other to be sure that 19 out of 20 times grown these two hybrids would follow the same relative order of yield. For the 20% level, two hybrids differing by more than the given L.S.D. value can be expected to perform in a similar manner 16 out of 20 times grown on the same field.

Also presented as an aid in identifying superior hybrid performance are the period-of-years tables and the table showing the average over all locations. Hybrids selected on the basis of more than one year's or one location's performance are much more likely to perform as expected than those not selected on this basis.

#### Bird-Resistant Hybrids

Since difficulty is often encountered in marketing bird-resistant hybrids, they should be grown only after careful consideration of potential bird and marketing problems.

#### Environmental and Cultural Factors

Temperature and precipitation patterns encountered during the season at the various evaluation sites are shown in Tables 1 and 2, respectively. Cultural practices applied to the plots at each location are presented in Table 3.

### RESULTS

Results from the grain sorghum plots are presented in Tables 4 through 13.

## EXPERIMENTAL METHODS

### Seed Source

All producers and distributors of grain sorghum seed were eligible to enter the tests in 1977. No limit was placed on the number of hybrids any one company could enter. Also, widely grown hybrids were identified by a mail survey of Missouri farmers and tested on a no-fee basis. Table 20 lists the sources for seed of the hybrids evaluated.

### Field Plot Design

Eighty-one entries were tested at each of the sites (see locations). Individual entries were planted in one-row plots with three replications. The triple lattice field plot design was used to minimize soil and cultural differences. The length of individual plots was 20 feet with a harvested length of 15 feet. The distance between rows was 30 inches at all locations.

### Yield

The acre yield (pounds) was determined in the following manner: The grain was harvested with a research plot combine, weighed and sampled for moisture, and proper calculations were then made. All yields were expressed on an acre basis with 12.5% moisture in the grain.

### Plant Height

The average height of the plants, in inches, was determined for each entry. These data are included in the tables for each location.

### Head Compactness

Compactness was graded from 1 to 5; 1 for the most compact or tight head, and 5 for the most lax or loose head.

### Exsertion

Exsertion is the relative distance that the head base protrudes above the top leaf blade. Grade 1 indicates the least exsertion and grade 5 the greatest.

### Off-Type Heads, Tall Plants, and Lodged Plants

Off-type heads, tall plants, and lodged plants were counted prior to harvest. These data are intended mainly to indicate seed purity and ability of each entry to resist lodging under conditions encountered at each site.

### Planting Rate

The planting rate at the northern, central, and southeastern Missouri locations was 145 seeds per 20 feet of row or approximately 7.9 pounds per acre (126,000 plants per acre). At the Southwest Center (Lawrence County) 135 seeds were planted per 20 feet of row or about 7.3 pounds per acre (117,000 plants per acre).

Table 1. Summary of temperature data for the period May 1 through August 31 at various Missouri locations in 1977.

Locations	Month	Avg. Temp.	Degrees From Normal	Number of Days Above	
				90°	100°
Spickard	May	69.0	5.7	0	0
	June	74.3	2.2	6	0
	July	80.5	3.6	22	0
	August	73.1	-0.6	4	0
Edina	May	68.2	5.1	0	0
	June	73.0	1.4	7	0
	July	80.4	4.4	22	0
	August	73.1	-1.3	3	0
Norborne	May	69.0	3.8	0	0
	June	74.7	0.9	6	0
	July	79.4	1.6	21	0
	August	75.2	0.0	6	0
Columbia	May	68.0	3.6	0	0
	June	73.5	0.5	3	0
	July	79.3	2.0	18	0
	August	77.0	1.0	11	0
Mexico	May	68.2	4.3	0	0
	June	73.1	0.2	8	0
	July	78.9	1.7	19	0
	August	73.5	-2.3	7	0
Mt. Vernon	May	69.0	3.8	0	0
	June	75.1	1.4	9	0
	July	79.1	1.2	17	0
	August	77.5	0.3	11	0
Cape Girardeau	May	71.9	4.6	4	0
	June	76.7	0.7	8	1
	July	81.1	1.7	19	0
	August	77.5	0.8	10	0
Sikeston	May	73.0	5.1	8	0
	June	77.6	1.2	11	1
	July	81.8	2.5	23	0
	August	78.5	0.8	15	0



Table 2. Total rainfall, number of days with rain, and dry periods\* from May 1 through August 31 at each testing site.

Location	Growing Season		May		June		July		August		Dry Periods*
	Total Rainfall	Days with Rain	Rain	Days with Rain	Rain	Days with Rain	Rain	Days with Rain	Rain	Days with Rain	
Spickard	16.39	43	4.49	12	1.78	6	1.33	5	8.79	20	
Edina	13.36	37	1.44	5	3.16	9	2.36	6	6.40	17	
Norborne	23.31	53	3.95	13	6.03	14	7.38	12	5.95	14	(8-16 to 8-31)
Columbia	13.43	36	4.31	10	5.24	15	1.62	4	2.26	7	
Mexico	13.13	38	3.63	12	3.56	10	2.43	6	3.51	10	
Mt. Vernon	21.60	49	3.53	8	8.11	19	2.84	8	7.12	14	
Cape Girardeau	13.11	35	1.61	4	4.40	12	2.29	7	4.81	12	(5-5 to 5-21)
Sikeston	17.45	46	2.28	6	5.02	15	4.54	13	5.61	12	(6-1 to 6-17; 5-7 to 5-22)

\*A dry period is 15 or more days with less than 0.25 inch precipitation in any one day. All dates are inclusive. The beginning date is the day after rainfall of 0.25 inch or more and the ending date is the day before a 0.25 inch rainfall.

Table 3. Cultural practices applied to the 1977 grain sorghum evaluation plots.

Location	Soil Test			Fertilizer Added	Insect- icide	Herb- icide*	Row Width (in.)	Planting		Har- vest Date	Cooperator (Town)
	O. M.	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O					Rate **	Date		
District 1 (Grundy Co.)	4.1	104	280	208-96-122	None	Ramrod+ Atrazine	30	7	5-17	----	North Missouri Center (Spickard)
District 2 (Knox Co.)	2.6	202	160	120-40-120	Mala- thion	Ramrod+ Atrazine	30	7	5-13	10-27	Greenley Memorial Center (Novelty)
District 3 (Boone Co.)	2.0	315	355	165-50-190	None	Ramrod+ Atrazine	30	7	5-12	9-22	Agronomy Research Center (Columbia)
District 4 (Lawrence Co.)	2.3	364	280	150-100-100	None	Ramrod+ Atrazine	30	7	5-16	10-20	Southwest Center (Mt. Vernon)
District 5 (Cape Girardeau Co.)	2.3	334	204	200-0-0	None	Ramrod+ Atrazine	30	7	5-18	10-06	Joe Hoffmeister Farm (Cape Girardeau)
District 6 (Stoddard Co.)	1.4	69	134	153-66-0	Rebel- ate	Ramrod+ Atrazine	38	7	5-04	9-21	W. L. Conner Farm (Parma)

\*Applied at recommend rates. See MU Guide 4348 for 1977 weed control recommendations.

\*\*Seeds per foot of row.

TABLE 4. SUMMARY PERFORMANCE OF GRAIN SORGHUM HYBRIDS EVALUATED AT THE NORTH MISSOURI CENTER NEAR SPICKARD, MO. (GRUNDY CO.) DURING THE 2-YEAR PERIOD 1975-76.

BRAND / HYBRID	ACRE YIELD (LB)	GRAIN MOIS- TURE (%)	LODGED PLANTS (%)	IN 20 FEET (#)	HEADS CMPT- NESS (1-5)	EXSER- TION (1-5)	OFF- TYPE HEADS (%)	TALL PLANTS (%)	PLANT HEIGHT (")	50% BLOOM DATE
DEKALB BR-54*	5248	17.8	0.0	66	4.6	3.3	0.0	0.3	39	8- 7
T-E BIRD-A-800 II*	4713	18.3	0.0	65	4.8	3.3	0.0	0.0	35	8- 7
FUNK G-516BR*	4611	17.3	0.0	64	4.5	3.0	0.0	0.0	33	8- 7
FUNK G-522**	4485	17.9	0.0	62	3.3	2.5	0.2	0.0	32	8-10
NK SAVANNA 3***	4397	17.9	0.0	60	4.3	3.5	0.0	0.0	34	7-31
MCNAIR 654***	4282	17.6	0.0	62	3.7	2.7	0.0	0.0	34	8- 9
PIONEER 8442**	4184	17.1	0.0	78	3.1	2.3	0.1	0.0	34	8- 4
WARNER W-866	4117	17.6	0.0	62	3.1	3.2	0.0	0.8	36	8- 4
NK 180	4011	17.4	0.2	58	2.8	3.8	0.3	0.0	36	8- 1
DEKALB C-42Y***	3997	17.1	0.0	60	3.5	3.8	0.0	0.0	37	8- 6
PIONEER 8386	3994	17.3	0.0	62	3.5	2.8	0.8	0.0	31	8- 6
PIONEER 8311**	3949	21.1	0.0	56	3.0	2.3	0.0	0.4	35	8- 8
PIONEER 8877	3915	16.8	0.0	70	4.6	3.2	0.0	0.0	32	7-28
ACCO R1090	3910	17.5	0.0	55	4.1	2.6	0.3	0.0	34	8- 7
WARNER W-832	3906	17.8	0.0	55	2.5	2.8	0.0	0.0	34	8- 4
ACCO R109-A**	3878	18.4	0.3	58	3.0	2.5	0.0	0.0	30	8- 8
DEKALB E-59***	3871	17.3	0.0	56	2.6	2.6	0.3	0.0	33	8- 9
ACCO R1029-A	3726	17.6	0.0	54	3.7	3.0	0.0	0.0	33	8- 4
M-F-A GS10**	3723	17.9	0.0	53	2.8	2.6	0.5	0.5	32	8- 8
NK 278	3708	18.8	0.0	57	2.6	3.0	0.0	0.0	31	8- 9
ASGROW DORADO**	3683	17.0	0.0	58	3.1	2.7	0.4	0.0	30	8- 4
ACCO BR-Y93*	3658	18.2	1.3	55	3.1	3.3	0.0	0.0	34	8- 7
FMC ADVANCE 80	3635	17.9	0.0	52	3.3	2.5	0.3	0.0	31	8- 6
DE KALB E-57***	3609	17.8	0.0	52	3.8	3.3	0.0	0.0	36	8- 4
PIONEER 8501	3581	17.6	0.0	57	2.5	3.0	0.3	0.0	35	8- 6
T-E 88A	3555	17.9	0.0	68	2.5	3.5	0.0	0.4	35	8- 6
NK 222G**	3527	18.2	0.4	58	3.5	2.5	0.3	0.0	31	8- 9
ACCO R1019	3446	17.6	0.0	56	3.7	3.0	0.3	0.2	32	8- 1
NK 222A**	3003	17.3	0.0	59	3.3	2.3	0.3	0.0	30	8- 6
FUNK G-766W	2709	20.4	0.0	62	2.0	2.3	0.9	0.0	33	8- 9
MARTIN	1846	19.0	0.0	43	2.8	3.2	0.0	0.0	28	8-11
AVERAGE	3834	17.9	0.1	59	3.4	2.9	0.2	0.1	33	

\*BIRD-RESISTANT HYBRID. SINCE DIFFICULTY IS OFTEN ENCOUNTERED IN MARKETING THESE HYBRIDS, THEY SHOULD ONLY BE GROWN AFTER CAREFUL CONSIDERATION OF POTENTIAL BIRD AND MARKETING PROBLEMS.

\*\*WIDELY GROWN HYBRID.

\*\*\*BIRD-RESISTANT AND WIDELY GROWN HYBRID.

TABLE 5. PERFORMANCE OF GRAIN SORGHUM HYBRIDS EVALUATED AT THE GREENLEY MEMORIAL CENTER NEAR NOVELTY, MISSOURI (KNCX COUNTY) IN 1977.

BRAND / HYBRID	ACRE YIELD (Lb)	GRAIN MOI5-TURF (%)	LODGED PLANTS (%)	HEADS IN 20 FEET (#)	CMPT-NESS (1-5)	EXSER-TION (1-5)	OFF-TYPE HEADS (%)	TALL PLANTS (%)	PLANT HEIGHT (")	50X BLOOM DATE
DE KALB BR-64*	6899	17.6	0.0	82	4.0	4.0	0.7	1.1	58	7-26
NORTHROP KING SAVANNA 5*	6964	17.6	0.4	68	2.6	4.0	0.0	0.0	56	7-23
TAYLOR-EVANS BIRD-A-800 II*	6818	17.1	0.0	75	4.6	3.6	0.0	0.0	48	7-22
PIONEER 9324	6774	16.1	0.0	74	3.3	1.6	0.0	0.8	46	7-21
NORTHROP KING BRAND 2884	6722	18.8	0.0	69	2.6	3.6	0.0	0.0	55	7-24
BROWNING 775W	6698	17.6	0.0	70	2.6	3.0	0.0	0.5	55	7-25
GREENBUSH GB-450	6479	17.6	0.0	71	3.3	2.3	0.0	0.4	45	7-19
DE KALB F-67	6439	18.1	0.0	78	3.3	3.0	0.0	0.4	49	7-26
P-A-G 662	6410	16.1	0.0	80	4.3	3.3	0.0	0.4	55	7-24
MC NAIR 654**	6287	17.5	0.0	84	3.3	3.3	0.0	0.7	53	7-20
WARNER W-744*	6220	18.1	0.0	91	4.0	3.6	0.0	0.3	52	7-23
NORTHROP KING BRAND 2778	6198	17.0	0.0	79	3.6	3.0	0.0	0.0	50	7-23
PIONEER 8311**	6180	16.3	0.0	78	3.3	2.3	0.0	0.4	48	7-25
RING AROUND RA EXP 9374	6174	15.6	0.0	89	2.6	3.0	0.0	0.0	47	7-23
RING AROUND RA EXP 9373	6140	15.1	0.0	74	3.0	3.6	0.0	0.0	52	7-26
FUNK G-701GBR	6119	16.6	0.0	83	2.3	2.6	0.0	0.0	47	7-25
MC NAIR 650**	6080	14.5	0.0	73	4.3	2.3	0.0	0.4	43	7-23
FERRY-MORSE ADVANCE 80	6039	13.3	0.0	69	4.0	2.3	0.0	1.3	43	7-21
GOLDEN HARVEST H265	6016	15.3	0.0	78	3.6	3.3	0.0	0.0	51	7-25
FUNK G-522**	5980	15.8	0.0	72	4.3	3.6	0.0	1.4	52	7-24
GOLDEN HARVEST H400B	5930	18.5	0.0	78	4.0	3.6	0.0	0.0	49	7-19
PFIZER TROJAN M 56	5910	18.5	0.0	84	3.6	2.6	0.0	1.0	45	7-22
DE KALB E-57B+	5877	18.3	0.0	75	3.3	4.0	0.9	0.9	56	7-22
DE KALB E-59***	5868	18.3	0.0	68	3.0	2.6	0.0	0.0	49	7-23
RING AROUND RA 808GB	5837	16.8	0.0	75	3.3	3.3	0.0	0.0	51	7-25
DE KALB C-42Y***	5771	15.0	0.0	72	3.6	4.0	0.0	0.0	51	7-19
FRONTIER 413-R	5702	14.1	0.0	70	4.0	3.3	0.0	0.0	47	7-21
CO-OP SG-40**	5699	14.1	0.0	81	4.0	2.3	0.0	0.0	42	7-22
WARNER W-839T	5697	17.8	0.0	62	3.0	3.3	0.0	0.0	48	7-22
M-F-A EXP-GB	5694	14.5	0.0	79	3.3	2.3	0.0	0.0	44	7-21
FRONTIER GX 103 EXP.	5688	14.8	0.0	68	3.6	3.6	0.0	0.5	52	7-23
FUNK G-722DP	5678	17.5	0.0	68	2.6	3.0	0.0	0.9	52	7-28
PIONEER 8272	5645	17.8	0.0	79	3.3	2.0	0.0	0.0	46	7-23
WARNER W-832	5634	14.8	0.0	78	3.3	2.3	0.0	0.0	46	7-22
MC CURDY M16YG	5599	15.3	0.0	67	3.3	2.3	0.0	0.4	45	7-24
M-F-A GS-10**	5578	16.1	0.0	75	4.0	2.3	0.0	1.0	46	7-22
WARNER W-839DR	5569	14.1	0.0	68	3.0	2.0	0.0	0.5	47	7-24
DE KALB E-57***	5563	14.1	0.0	72	4.0	4.0	0.0	0.0	52	7-23
FRONTIER 402-R	5546	15.1	0.0	73	3.0	2.6	0.0	0.0	50	7-24
FERRY-MORSE ADVANCE 81GB	5543	14.5	0.0	78	4.6	3.0	0.0	0.0	47	7-20
PFIZER TROJAN M 55	5510	14.5	3.8	80	4.3	4.6	0.0	0.3	55	7-19
ACCO BR-Y93*	5452	18.8	0.0	81	3.3	4.6	0.0	0.4	53	7-19
ACCO R 109A**	5449	14.1	0.0	69	4.3	2.3	0.0	0.5	47	7-21
ASGROW DORADO**	5440	13.8	0.0	77	4.0	2.0	0.0	0.4	45	7-22
FUNK G-623GBR	5423	15.3	0.0	73	4.0	2.3	0.0	0.0	46	7-19
MC NAIR 695D	5373	15.1	0.0	79	2.0	3.3	0.0	0.0	51	7-21
ACCO R 1090	5366	17.5	0.0	76	3.6	3.0	0.0	0.0	49	7-19
TAYLOR-EVANS T-E Y-101-R	5352	18.1	0.0	77	3.6	3.0	0.0	0.0	50	7-21
PFIZER TROJAN M 56G	5334	15.8	0.0	81	3.0	2.6	0.0	0.0	46	7-20
WARNER W-866	5332	16.1	0.0	65	3.3	3.3	0.0	0.4	46	7-19
CO-OP SG-40 GBR	5309	16.1	0.0	68	4.0	2.0	0.0	0.0	46	7-22
PIONEER 8442**	5309	15.1	0.5	76	3.6	3.0	0.0	0.3	47	7-21
P-A-G 5514	5289	16.3	0.0	70	4.0	2.3	0.0	0.4	46	7-21
P-A-G 5512	5282	13.8	0.0	81	3.3	2.6	0.0	0.4	43	7-19
ASGROW RUG-OFF M	5231	15.8	0.0	81	3.3	3.3	0.0	0.7	49	7-12
FRONTIER 412-R	5228	18.3	0.0	74	3.6	3.0	0.0	0.0	45	7-24
RING AROUND RA 733GB	5217	19.1	0.0	71	2.6	2.0	0.0	0.0	41	7-24
P-A-G 4432	5216	15.3	0.0	84	2.6	2.6	0.0	0.4	43	7-17
GOLDEN HARVEST H500B	5147	14.5	0.0	79	3.6	2.6	0.0	0.0	45	7-18
FUNK G-642GBR	5105	14.3	0.0	70	4.0	3.0	0.0	0.0	51	7-22
PFIZER TROJAN M 58G	5102	16.3	0.0	73	4.6	3.0	0.0	0.0	49	7-22
ACCO R 1029-A	5100	17.0	0.0	73	3.3	2.3	0.4	0.0	46	7-18
NORTHROP KING BRAND 2779	5092	14.5	0.0	68	3.6	3.0	0.0	0.0	49	7-20
BROWNING SPIRIT OF 76	5052	17.3	0.0	77	3.3	2.6	0.0	0.4	47	7-19
NORTHROP KING SAVANNA 3***	5006	16.1	0.0	58	4.3	3.3	0.0	0.0	50	7-22
CO-OP SG-36 GBR	4974	15.8	0.0	54	4.0	3.3	0.0	0.0	50	7-25
O'S GOLD 510	4956	15.1	0.0	76	3.0	3.0	0.0	1.3	43	7-21
PFIZER TROJAN M 59	4955	15.6	0.0	70	3.0	2.0	0.5	0.9	52	7-22
TAYLOR-EVANS T-E Y-111	4954	15.5	0.0	59	3.3	2.0	0.0	0.5	42	7-17
MC CURDY M51YG	4765	14.3	0.0	61	3.6	2.6	0.0	0.5	39	7-22
DE KALB C-42A+	4596	17.5	0.0	75	3.6	3.3	0.0	0.3	48	7-18
PIONEER 8592	4536	18.3	0.0	74	2.6	4.3	0.0	0.4	56	7-20
FERRY-MORSE ADVANCE 14	4531	13.6	0.0	75	4.0	3.6	0.0	0.9	51	7-20

TABLE 5. CONTINUED.

BRAND / HYBRID	ACRE YIELD (LB)	GRAIN MOIS- TURE (%)	LODGED PLANTS (%)	HEADS IN 20 FEET (#)	CMPT- NESS (1-5)	EXSER- TION (1-5)	OFF- TYPE HEADS (%)	TALL PLANTS (%)	PLANT HEIGHT (")	50% BLOOM DATE
NORTHROP KING 222G**	4469	16.8	0.0	66	4.3	2.6	0.0	0.0	46	7-24
MC CURDY M89YG	4424	14.6	0.0	70	4.0	3.0	0.0	0.5	52	7-18
PICNEER 8585	4370	15.8	0.0	69	3.6	2.3	0.0	0.4	43	7-20
DE KALB C-43Y+	4268	17.8	0.0	88	2.6	2.0	0.0	1.4	41	7-24
GOLDEN HARVEST H300	4128	17.6	0.0	67	3.6	3.6	0.0	0.0	45	7-20
NORTHROP KING 222A**	3896	16.8	0.0	59	4.6	2.3	0.0	0.0	43	7-19
FRONTIER 400-R	3713	15.8	0.0	84	2.3	1.3	0.0	0.0	39	7-19
FUNK G-449GBR	3563	18.3	0.0	69	3.6	2.3	0.0	0.0	39	7-18
MARTIN	3470	16.1	0.6	100	3.0	2.0	0.0	1.0	37	7-19
AVERAGE	5461	16.2	0.1	74	3.5	2.9	0.0	0.3	47	

LSD VALUE AT THE 5% LEVEL IS 606 POUNDS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE WILL DIFFER SIGNIFICANTLY 19 OF 20 TIMES GROWN.

LSD VALUE AT THE 20% LEVEL IS 388 POUNDS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE WILL DIFFER SIGNIFICANTLY 16 OF 20 TIMES GROWN.

\*WIDELY GROWN HYBRID.

\*\*BIRD-RESISTANT HYBRID. SINCE DIFFICULTY IS OFTEN ENCOUNTERED IN MARKETING THESE HYBRIDS, THEY SHOULD ONLY BE GROWN AFTER CAREFUL CONSIDERATION OF POTENTIAL BIRD AND MARKETING PROBLEMS.

\*\*\*BIRD RESISTANT AND WIDELY GROWN.

TABLE 6. PERFORMANCE OF GRAIN SORGHUM HYBRIDS EVALUATED AT THE AGRONOMY RESEARCH CENTER-  
BRADFORD FARM, NEAR COLUMBIA, MISSOURI (BOONE COUNTY) DURING 1977.

BRAND / HYBRID	ACRE YIELD (LB)	GRAIN MOIS- TURE (%)	LOGGED PLANTS (%)	HEADS IN 20 FEET (#)	CMPT- NESS (1-5)	EXSER- TION (1-5)	EFF- TYPE HEADS (%)	TALL PLANTS (%)	PLANT HEIGHT (")	50% BLOOM DATE
MC NAIR 654**	8781	16.1	0.0	80	4.0	4.0	0.0	1.2	57	7-18
FUNK G-722DR	8329	18.3	0.0	75	2.0	4.0	0.0	2.1	57	7-21
P-A-G 462	8169	18.3	0.0	72	4.0	3.3	0.0	0.0	54	7-20
PIONEER 8324	8150	19.3	0.0	82	2.3	3.0	0.0	0.7	55	7-20
NORTHRUP KING BRAND 2884	8076	18.1	0.0	56	2.6	3.0	0.0	0.0	54	7-20
ACCO R 109C	8075	17.6	0.0	91	4.3	4.0	0.0	0.0	59	7-18
DE KALB C-42Y***	7996	15.5	0.0	82	3.6	4.6	0.0	0.4	57	7-18
RING AROUND RA EXP 9373	7937	16.6	0.0	77	2.6	3.3	0.0	0.8	57	7-20
NORTHRUP KING BRAND 2778	7925	19.6	0.0	81	2.0	3.3	0.0	0.3	60	7-19
DE KALB F-67	7816	18.3	0.4	75	3.6	2.6	0.0	0.3	51	7-22
FUNK G-522**	7796	16.6	0.0	58	3.0	2.6	0.0	0.0	49	7-20
ACCO BR-Y93*	7784	20.1	0.0	92	4.0	4.6	0.0	0.7	56	7-17
FRONTIER 412-R	7692	17.1	0.0	72	3.6	3.0	0.0	0.9	52	7-18
BROWNING 775W	7658	17.5	0.0	71	2.6	4.3	0.0	1.4	66	7-21
MC NAIR 650**	7634	16.8	0.0	78	4.0	3.3	0.0	0.8	52	7-20
PFIZER TROJAN M 56	7630	16.1	0.0	73	3.6	2.6	0.0	0.9	53	7-19
PIONEER 8272	7562	17.8	0.0	76	3.3	3.0	0.0	1.7	56	7-20
NORTHRUP KING SAVANNA 5*	7473	19.3	0.3	76	1.0	4.3	0.0	0.0	64	7-19
MC NAIR 695D	7464	18.3	0.0	76	2.6	3.0	0.0	0.0	55	7-20
FERRY-MORSE ADVANCE 80	7462	16.6	0.0	70	4.0	2.0	0.0	1.7	53	7-19
ASGROW DORADO**	7452	17.3	0.0	69	3.6	2.3	0.0	0.0	48	7-19
P-A-G 5512	7447	15.8	0.0	79	2.6	2.3	0.0	0.0	49	7-17
FRONTIER 413-R	7406	19.1	0.4	78	3.3	4.0	0.0	0.4	57	7-18
RING AROUND RA EXP 9374	7360	16.8	0.0	86	3.0	3.6	0.0	0.0	55	7-19
WARNER W-866	7302	18.0	0.0	69	3.3	3.3	0.0	0.0	55	7-16
FRONTIER GX 103 EXP.	7299	18.3	0.0	73	3.0	4.0	0.0	0.0	56	7-19
GOLDEN HARVEST H265	7262	17.3	0.0	65	3.3	3.0	0.0	0.4	51	7-20
NORTHRUP KING 222G**	7157	18.8	0.0	64	2.6	2.3	0.0	0.4	50	7-21
FRONTIER 402-R	7094	17.1	0.0	74	3.0	3.0	0.0	2.7	51	7-20
WAPNER W-832	7071	16.6	0.0	73	2.3	3.0	0.0	2.4	54	7-17
MC CURDY M16YG	7002	16.1	0.0	64	3.3	2.6	0.0	0.5	49	7-19
CO-OP SG-40 GBR	6976	18.1	0.0	74	3.0	2.6	0.0	0.0	50	7-19
PIONEER 8442**	6963	15.8	0.0	74	3.0	3.3	0.0	0.0	52	7-17
DE KALB C-42A+	6959	19.8	0.0	60	4.3	2.6	0.0	0.4	51	7-16
DE KALB BR-64*	6944	20.1	0.0	83	4.6	5.0	0.0	0.0	63	7-21
FUNK G-701GBR	6924	17.8	0.0	71	2.3	2.3	0.0	0.4	52	7-22
DE KALB E-55+**	6897	17.6	0.0	66	3.3	2.6	0.0	0.0	55	7-20
BROWNING SPIRIT OF 76	6884	17.1	0.0	66	3.3	2.3	0.0	1.1	48	7-18
FUNK G-642GBR	6875	16.6	0.0	83	4.0	3.3	0.0	0.0	57	7-20
GOLDEN HARVEST H400B	6839	16.3	0.0	67	4.0	4.0	0.0	0.5	56	7-17
M-F-A GS-10**	6825	16.1	0.0	63	4.0	2.6	0.0	0.0	50	7-20
WARNER W-839DR	6808	17.8	0.0	63	2.6	2.0	0.0	1.4	52	7-21
O'S GOLD 510	6806	16.3	0.0	64	4.0	3.3	0.0	0.5	49	7-18
ACCO R 109A**	6785	18.3	0.0	79	2.6	3.0	0.0	1.3	53	7-19
GOLDEN HARVEST H500B	6776	16.3	0.0	70	4.0	2.6	0.0	0.0	49	7-17
P-A-G 5514	6709	16.3	0.0	63	4.0	3.0	0.0	0.5	50	7-18
P-A-G 4432	6707	16.6	1.1	68	3.6	2.6	0.0	0.0	49	7-15
PFIZER TROJAN M 59	6696	16.8	0.0	63	3.3	3.3	0.0	0.0	54	7-18
PFIZER TROJAN M 56G	6639	17.6	0.0	74	3.3	2.3	0.0	0.0	48	7-19
TAYLOR-EVANS BIRD-A-BOO II*	6586	19.3	0.0	86	5.0	3.3	0.0	0.0	56	7-20
DE KALB E-57B+	6581	17.8	0.0	60	3.3	3.3	0.0	1.4	55	7-20
FUNK G-623GBR	6560	16.8	0.0	59	3.3	2.3	0.0	0.0	49	7-19
PIONEER 8311**	6440	17.6	0.0	62	3.0	3.0	0.0	0.4	52	7-19
WARNER W-839T	6426	15.8	0.0	72	3.3	2.6	0.0	0.8	48	7-18
ACCO R 1029-A	6395	15.6	0.0	68	4.6	3.3	0.0	0.4	51	7-16
PIONEER 8585	6383	17.8	0.0	81	2.6	3.3	0.0	1.5	49	7-17
RING AROUND RA 808GB	6381	18.6	0.0	75	3.6	3.6	0.0	0.9	55	7-19
NORTHRUP KING 222A**	6340	16.5	0.0	66	3.6	3.3	0.0	0.0	52	7-16
RING AROUND RA 733GB	6339	16.8	0.0	69	3.0	2.3	0.0	0.0	47	7-20
FERRY-MORSE ADVANCE 81GB	6318	17.1	0.0	73	3.6	3.0	0.0	0.0	52	7-19
MC CURDY M89YG	6271	17.8	0.0	75	3.3	4.3	0.0	0.0	55	7-15
CO-OP SG-40**	6256	15.8	0.0	59	3.3	2.3	0.0	0.0	48	7-19
GREENBUSH GB-450	6204	18.3	0.0	70	3.6	2.6	0.0	0.3	49	7-21
PIONEER 8592	6200	18.3	0.0	76	3.0	3.3	0.0	0.8	57	7-15
MC CURDY M51YG	6197	17.5	0.0	62	3.6	2.3	0.0	0.6	48	7-18
ASGROW BUG-OFF M	6180	17.0	0.0	74	3.0	4.3	0.0	0.0	58	7-17
TAYLOR-EVANS T-E Y-101-R	6082	17.5	0.0	72	3.0	2.3	0.0	0.0	48	7-17
PFIZER TROJAN M 58G	5852	15.6	0.0	72	4.6	3.6	0.0	0.0	56	7-17
FERRY-MORSE ADVANCE 14	5811	15.3	0.0	65	4.3	4.3	0.0	1.1	56	7-16
DE KALB C-43Y+	5808	17.1	0.0	84	3.0	2.3	0.0	0.8	44	7-20
WARNER W-744*	5808	19.1	0.0	63	4.6	3.6	0.0	0.5	55	7-20
CO-OP SG-36 GBR	5758	16.1	0.0	66	4.3	3.0	0.0	0.5	56	7-20
PFIZER TROJAN M 55	5727	15.6	0.0	77	5.0	4.0	0.0	0.0	57	7-16

TABLE 6. CONTINUED.

BRAND / HYBRID	ACRE YIELD (LB)	GRAIN MOIS- TUPE (%)	LODGED PLANTS (%)	HEADS IN 20 FEET (#)	CMPT- NESS (1-5)	EXSER- TION (1-5)	OFF- TYPE HEADS (%)	TALL PLANTS (%)	PLANT HEIGHT (")	50% RLCOM DATE
NORTHRUP KING BRAND 2779	5717	15.8	0.0	71	3.0	3.3	0.0	0.4	51	7-18
DE KALB E-57***	5652	16.8	0.0	58	5.0	3.6	0.0	0.0	55	7-18
NORTHRUP KING SAVANNA 3***	5609	17.6	0.0	70	4.6	3.0	0.0	0.0	50	7-16
FUNK G-449GBR	5600	16.5	0.0	66	4.3	2.3	0.0	0.4	47	7-16
M-F-A EXP-GB	5600	17.8	0.0	54	2.6	2.0	0.0	0.0	48	7-19
GOLDEN HARVEST H300	5562	15.3	0.0	81	4.0	4.3	0.0	0.0	54	7-15
FRONTIER 400-R	5444	15.6	0.0	64	3.0	1.3	0.0	1.0	44	7-16
TAYLOR-EVANS T-E Y-111	5419	16.3	0.0	75	3.6	3.2	0.0	0.8	51	7-16
MARTIN	4485	18.0	0.0	93	2.6	4.3	0.3	0.3	57	7-15
AVERAGE	6808	17.3	0.0	71	3.4	3.1	0.0	0.5	52	

LSD VALUE AT THE 5% LEVEL IS 1253 POUNDS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE WILL DIFFER SIGNIFICANTLY 19 OF 20 TIMES GROWN.

LSD VALUE AT THE 20% LEVEL IS 802 POUNDS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE WILL DIFFER SIGNIFICANTLY 16 OF 20 TIMES GROWN.

\*WIDELY GROWN HYBRID.

\*\*BIRD-RESISTANT HYBRID. SINCE DIFFICULTY IS OFTEN ENCOUNTERED IN MARKETING THESE HYBRIDS, THEY SHOULD ONLY BE GROWN AFTER CAREFUL CONSIDERATION OF POTENTIAL BIRD AND MARKETING PROBLEMS.

\*\*\*BIRD RESISTANT AND WIDELY GROWN.

TABLE 7. SUMMARY PERFORMANCE OF GRAIN SORGHUM HYBRIDS EVALUATED AT THE AGRONOMY RESEARCH CENTER NEAR COLUMBIA, MO. (BOONE CO.) DURING THE 3-YEAR PERIOD 1975-77.

BRAND / HYBRID	ACRE YIELD (LB)	GRAIN MOISTURE (%)	LODGED PLANTS (%)	IN 20 FEET (#)	HEADS CMPT-NESS (1-5)	EXSER-TION (1-5)	OFF-TYPE HEADS (%)	TALL PLANTS (%)	PLANT HEIGHT (**)	50% BLOOM DATE
ASGROW DORADO**	6042	14.8	0.3	69	3.5	1.7	0.0	0.0	40	8- 1
FUNK G-522**	5964	14.8	0.5	64	3.1	1.8	0.0	0.0	42	8- 2
DE KALB C-42Y+**	5859	14.3	0.2	68	3.6	4.2	0.0	0.1	49	8- 1
WARNER W-866	5670	15.6	2.2	63	2.8	2.5	0.0	0.3	46	7-30
FERRY-MORSE ADVANCE 80	5611	14.3	0.0	66	3.7	1.8	0.0	0.7	42	7-31
ACCO R 109A**	5565	15.3	0.3	65	3.2	2.2	0.0	0.4	43	8- 1
DE KALB E-59+**	5543	15.5	0.0	64	2.6	1.5	0.0	0.0	44	8- 2
ACCO R 1090	5535	14.9	0.7	67	4.0	2.7	0.0	0.2	46	8- 2
MC NAIR 654**	5513	14.9	14.1	60	3.7	2.7	0.0	0.6	45	8- 1
TAYLOR-EVANS BIRD-A-BOO II*	5426	15.5	0.8	71	4.9	2.4	0.0	0.3	45	7-31
PIONEER 8442**	5354	14.8	0.9	66	3.2	2.5	0.0	0.0	42	7-30
ACCO BR-Y93*	5335	16.2	3.9	73	3.8	3.2	0.0	0.2	45	7-30
WARNER W-832	5309	15.3	0.3	64	2.3	2.1	0.0	0.8	44	7-30
M-F-A GS-10**	5198	14.7	0.6	62	3.4	1.8	0.0	0.0	41	8- 1
ACCO R 1029-A	5077	14.1	4.3	64	4.1	2.7	0.0	0.3	44	7-30
DE KALB E-57+**	5023	15.1	0.4	60	4.1	3.2	0.0	0.0	46	8- 1
PIONEER 8311**	5007	15.6	0.0	60	2.9	2.2	0.0	0.3	43	8- 2
NCRTHRUP KING 222G**	4956	15.6	0.3	62	2.9	2.0	0.0	0.4	42	8- 4
NORTHROP KING SAVANNA 3***	4889	15.6	2.5	61	4.8	2.8	0.0	0.0	42	7-30
NCRTHRUP KING 222A**	4775	15.3	0.2	59	3.5	2.3	0.0	0.0	42	7-31
MARTIN	3422	15.6	2.3	70	3.4	3.1	0.4	0.4	43	7-31
AVERAGE	5289	15.1	1.7	65	3.5	2.4	0.0	0.3	43	

\*BIRD-RESISTANT HYBRID. SINCE DIFFICULTY IS OFTEN ENCOUNTERED IN MARKETING THESE HYBRIDS, THEY SHOULD ONLY BE GROWN AFTER CAREFUL CONSIDERATION OF POTENTIAL BIRD AND MARKETING PROBLEMS.

\*\*WIDELY GROWN HYBRID.

\*\*\*BIRD-RESISTANT AND WIDELY GROWN HYBRID.

TABLE 8. SUMMARY PERFORMANCE OF GRAIN SORGHUM HYBRIDS EVALUATED AT THE AGRONOMY RESEARCH CENTER NEAR COLUMBIA, MD (BDJONE CO.) DURING THE 2-YEAR PERIOD 1976-77.

BRAND / HYBRID	ACRE YIELD (LB)	GRAIN MOISTURE (%)	LODGED PLANTS (%)	IN 20 FEET (#)	HEADS CMPT-NESS (1-5)	EXSER-TION (1-5)	OFF-TYPE HEADS (%)	TALL PLANTS (%)	PLANT HEIGHT (")	50% BLOOM DATE
MC NAIR 650**	6820	16.1	0.2	74	3.5	2.5	0.0	0.4	43	7-24
MC NAIR 654**	6411	15.8	2.0	63	3.3	2.8	0.0	0.6	46	7-23
DE KALB C-42Y+***	6349	15.2	0.3	75	3.3	4.4	0.0	0.2	48	7-22
FUNK G-522**	6345	15.8	0.4	63	2.8	1.8	0.0	0.0	41	7-24
ASGROW DORADO**	6313	15.8	0.0	70	3.1	1.6	0.0	0.0	40	7-24
PFIZER TROJAN M 56	6286	15.6	0.0	74	2.9	1.8	0.0	0.4	43	7-24
FEPRY-MORSE ADVANCE 80	6259	15.6	0.0	71	3.3	1.6	0.0	0.8	43	7-23
MC NAIR 695D	6257	16.7	0.0	74	2.4	2.1	0.0	0.0	46	7-26
BROWNING 775*	6167	16.0	0.8	67	2.3	3.1	0.0	0.7	52	7-27
DE KALB F-67	6124	16.9	0.2	73	2.8	1.9	0.0	0.1	44	7-28
P-A-G 5512	6080	15.3	0.0	69	2.1	2.3	0.0	0.0	41	7-22
ACCO R 1090	6030	16.3	0.7	71	3.5	3.0	0.0	0.0	47	7-24
FUNK G-722DR	6013	16.9	0.0	60	1.5	2.5	0.0	1.1	46	7-28
WARNER W-866	6011	16.1	0.6	65	2.5	2.6	0.0	0.0	46	7-22
MC CURDY M16YG	5961	15.5	1.3	65	2.8	1.8	0.0	0.5	42	7-23
ACCO BR-Y93*	5946	17.5	1.4	81	3.8	3.4	0.0	0.3	46	7-21
GREENBUSH GB-450	5925	16.8	0.0	74	3.4	1.9	0.0	0.1	42	7-24
ACCO R 109A**	5923	16.8	0.5	73	2.8	2.3	0.0	0.7	43	7-23
PIONEER 8442**	5887	15.4	0.3	69	2.3	2.6	0.0	0.0	43	7-22
RING AROUND RA 808GB	5857	16.8	1.2	71	2.9	2.3	0.0	0.4	46	7-25
PFIZER TROJAN M 56G	5789	16.3	0.4	73	2.8	1.6	0.0	0.0	41	7-23
TAYLOR-EVANS BIRD-A-800 II*	5771	16.6	0.0	79	4.8	2.6	0.0	0.2	46	7-23
DE KALB E-59+***	5752	16.4	0.0	63	2.3	1.8	0.0	0.0	45	7-26
NORTRUP KING 222G**	5730	17.0	0.5	65	2.1	2.0	0.0	0.2	42	7-27
ACCO R 1029-A	5671	14.5	0.4	69	3.9	2.6	0.0	0.2	45	7-21
M-F-A GS-10**	5641	15.6	0.3	64	3.0	1.8	0.0	0.0	42	7-24
FRONTIER 412-R	5618	15.8	0.0	64	2.4	2.0	0.0	0.4	41	7-24
P-A-G 5514	5598	15.4	0.3	66	3.0	2.1	0.0	0.3	42	7-23
WARNER W-832	5565	15.8	0.3	67	1.8	2.5	0.0	1.2	44	7-23
PFIZER TROJAN M 58G	5537	15.3	0.3	69	3.8	2.4	0.0	0.0	46	7-22
MC CURDY M89YG	5523	16.4	0.0	71	2.8	4.3	0.0	0.0	46	7-18
PIONEER 8311**	5467	16.4	0.0	65	2.5	2.5	0.0	0.2	44	7-24
PFIZER TROJAN M 59	5453	15.9	0.7	68	2.6	2.6	0.0	0.3	46	7-25
PFIZER TROJAN M 55	5351	15.3	0.0	74	4.0	3.6	0.0	0.0	48	7-20
WARNER W-744*	5251	17.1	0.0	65	4.4	3.3	0.0	0.3	46	7-23
TAYLOR-EVANS T-E Y-101-R	5206	16.3	0.3	65	2.6	1.8	0.0	0.0	41	7-23
CO-OP SG-40**	5201	15.5	0.0	59	2.8	1.6	0.0	0.0	41	7-24
NORTRUP KING 222A**	4930	16.0	0.3	58	2.8	2.1	0.0	0.0	42	7-22
NORTRUP KING SAVANNA 3***	4883	16.3	0.0	56	4.6	2.6	0.0	0.0	42	7-21
DE KALB E-57+***	4760	15.9	0.6	59	3.6	2.9	0.0	0.0	46	7-23
MARTIN	3772	16.5	0.7	72	2.9	3.8	0.1	0.1	44	7-22
AVERAGE	5742	16.1	0.4	68	3.0	2.5	0.0	0.2	44	

\*BIRD-RESISTANT HYBRID. SINCE DIFFICULTY IS OFTEN ENCOUNTERED IN MARKETING THESE HYBRIDS, THEY SHOULD ONLY BE GROWN AFTER CAREFUL CONSIDERATION OF POTENTIAL BIRD AND MARKETING PROBLEMS.

\*\*WIDELY GROWN HYBRID.

\*\*\*BIRD-RESISTANT AND WIDELY GROWN HYBRID.

TABLE 9. PERFORMANCE OF GRAIN SORGHUM HYBRIDS EVALUATED AT THE SOUTHWEST CENTER NEAR MT. VERNON, MISSOURI (LAWRENCE COUNTY) DURING 1977.

BRAND / HYBRID	ACRE YIELD (LB)	GRAIN MOIS- TURE (%)	LODGED PLANTS (%)	HEADS IN 20 FEET (#)	CMPT- NESS (1-5)	EXSER- TION (1-5)	OFF- TYPE HEADS (%)	TALL PLANTS (%)	PLANT HEIGHT (")	50% BLOOM DATE
FUNK G-722DR	7665	15.0	1.0	94	2.6	3.6	0.0	0.0	61	7-23
BROWNING 775W	7044	14.3	1.5	89	4.3	4.0	0.3	0.0	65	7-21
FUNK G-701GBR	6651	14.0	3.0	91	3.3	3.6	0.0	0.0	55	7-23
NORTHRUP KING BRAND 2884	6648	16.1	3.6	84	4.0	4.0	0.0	0.0	61	7-21
MC NAIR 695D	6635	16.1	1.0	96	3.6	3.3	0.0	0.6	58	7-20
RING AROUND RA 808GB	6585	15.6	1.7	97	4.6	4.0	0.0	0.0	59	7-21
GREENBUSH GB-450	6461	13.6	1.9	94	4.6	4.0	0.0	0.2	51	7-18
WARNER W-839DR	6420	14.1	1.8	86	3.0	4.0	0.0	0.8	55	7-16
WARNER W-866	6406	19.3	11.4	89	4.3	4.0	0.0	0.3	59	7-18
WARNER W-832	6400	17.3	1.1	88	4.0	4.0	0.0	0.7	55	7-18
P-A-G 5514	6349	14.1	3.4	98	3.6	4.3	0.0	0.6	53	7-20
PFIZER TROJAN M 59	6326	16.8	1.3	88	4.0	3.3	0.0	0.0	55	7-20
P-A-G 562	6261	16.0	3.4	97	5.0	3.6	0.3	0.0	58	7-20
FUNK G-522**	6239	16.5	5.7	87	5.0	4.0	0.0	0.0	51	7-18
ACCO R 1C9A**	6227	13.8	15.0	97	5.0	4.0	0.0	0.0	51	7-18
DE KALB F-67	6202	14.3	3.2	85	4.3	4.6	0.0	0.3	53	7-24
PIONEER 8442**	6109	14.5	2.2	89	3.6	4.3	0.0	1.1	52	7-20
FUNK G-642GBR	6103	15.8	1.9	86	5.0	4.6	0.0	0.3	54	7-21
NORTHRUP KING SAVANNA 5*	6075	17.1	1.7	74	1.6	4.6	0.0	0.4	69	7-21
WARNER W-839T	6058	16.5	2.9	89	4.0	5.0	0.0	0.3	53	7-18
RING AROUND RA EXP 9374	6038	14.3	4.8	109	4.6	4.6	0.0	0.6	56	7-21
PIONEER 8324	6037	14.3	3.8	77	4.3	3.0	0.0	0.0	55	7-20
FUNK G-623GBR	6005	16.8	2.0	96	4.0	5.0	0.0	0.0	52	7-19
M-F-A EXP-GB	5989	16.1	3.1	95	4.0	4.6	0.0	0.7	54	7-19
DE KALB E-59***	5979	16.3	1.8	91	4.3	4.6	0.0	1.0	54	7-20
GOLDEN HARVEST H265	5965	16.8	5.4	106	5.0	4.3	0.0	0.0	57	7-20
DE KALB BR-64*	5958	17.8	1.2	99	4.6	4.6	0.0	0.9	64	7-23
M-F-A GS-10**	5949	13.8	2.8	92	5.0	4.0	0.0	0.3	51	7-20
FRONTIER 412-R	5938	16.5	5.9	77	3.6	4.3	0.0	0.0	53	7-20
CO-OP SG-40 GBR	5903	16.0	3.3	88	4.0	4.6	0.0	0.0	53	7-19
PFIZER TROJAN M 56G	5840	14.0	1.3	98	4.3	5.0	0.0	0.0	55	7-19
CO-OP SG-36 GBR	5837	16.3	2.3	84	5.0	4.3	0.0	0.0	53	7-21
MC NAIR 650**	5776	15.8	2.8	93	5.0	4.0	0.0	0.7	51	7-18
FRONTIER 402-R	5758	13.8	1.8	93	4.3	4.6	0.0	0.0	56	7-22
FERRY-MORSE ADVANCE 80	5715	15.8	1.2	77	4.6	4.0	0.0	1.3	54	7-19
PIONEER 8311**	5706	16.5	2.3	89	5.0	3.3	0.0	0.7	52	7-20
ASGROW DORADO**	5688	13.3	2.7	77	4.6	4.3	0.0	0.0	51	7-18
CO-OP SG-40**	5670	16.1	1.6	87	5.0	4.6	0.0	0.0	53	7-19
DE KALB C-42Y***	5650	13.6	0.7	82	4.0	5.0	0.0	0.0	60	7-18
RING AROUND RA 733GB	5600	15.6	2.7	86	4.3	5.0	0.0	0.3	54	7-19
ACCO R 1090	5598	13.6	6.5	86	5.0	4.3	0.0	0.0	53	7-18
TAYLOR-EVANS T-E Y-101-P	5564	14.0	4.5	85	4.3	4.6	0.0	0.3	52	7-20
FERRY-MORSE ADVANCE 81GB	5556	15.6	3.2	90	4.6	5.0	0.0	0.0	54	7-18
NORTHRUP KING BRAND 2779	5532	13.8	3.0	88	4.3	5.0	0.0	0.3	53	7-20
MC NAIR 654**	5506	13.8	9.1	112	5.0	4.0	0.0	0.3	57	7-19
NORTHRUP KING 222G**	5481	16.3	5.9	88	5.0	3.6	0.3	0.3	51	7-21
MC CURDY M16YG	5472	13.6	2.9	75	3.6	4.3	0.0	0.3	52	7-21
BROWNING SPIRIT OF 76	5469	15.8	3.8	81	4.0	5.0	0.0	0.0	53	7-19
DE KALB E-57B+	5436	14.1	1.9	91	4.6	5.0	0.0	0.0	58	7-20
PFIZER TROJAN M 56	5415	15.8	3.2	92	4.6	4.0	0.0	1.7	51	7-18
NORTHRUP KING BRAND 2778	5395	14.3	5.5	90	4.3	5.0	0.0	0.0	58	7-21
PIONEER 8585	5390	16.6	4.4	90	3.6	4.6	0.0	0.7	52	7-19
DE KALB E-57+**	5313	16.3	2.2	81	5.0	5.0	0.0	0.8	59	7-19
PFIZER TROJAN M 58G	5267	13.6	5.9	82	5.0	4.0	0.0	0.0	56	7-19
PFIZER TROJAN M 55	5256	16.8	6.5	92	5.0	5.0	0.0	0.3	55	7-17
TAYLOR-EVANS T-E Y-111	5207	16.1	3.5	78	3.6	4.3	0.0	0.0	52	7-18
FERRY-MORSE ADVANCE 14	5200	16.6	2.6	87	5.0	4.6	0.0	0.0	58	7-19
WARNER W-744*	5185	14.3	8.3	98	5.0	3.6	0.0	1.4	52	7-20
FRONTIER GX 103 EXP.	5144	16.1	4.3	88	5.0	5.0	0.0	0.6	57	7-19
GOLDEN HARVEST H500B	5103	16.3	5.5	84	4.3	5.0	0.0	0.0	54	7-20
D'S GOLD 510	5080	15.8	4.3	88	4.3	4.6	0.0	0.0	53	7-20
MC CURDY M51YG	5026	14.0	2.9	82	4.0	4.3	0.0	0.4	52	7-19
NORTHRUP KING SAVANNA 3***	4890	14.5	4.2	82	4.6	4.3	0.0	0.0	53	7-20
FRONTIER 413-R	4887	14.1	5.7	100	4.0	5.0	0.0	0.2	60	7-20
RING AROUND RA EXP 9373	4864	16.0	4.7	85	4.0	4.3	0.0	0.0	59	7-21
DE KALB C-43Y+	4857	17.6	1.3	108	3.6	4.0	0.0	0.0	46	7-21
PIONEER 8592	4785	14.8	8.1	82	4.0	4.3	0.0	0.7	57	7-18
PIONEER 8272	4681	14.8	10.0	89	4.3	4.3	0.0	0.3	58	7-21
ASGROW BUG-OFF M	4512	16.6	14.8	96	5.0	5.0	0.0	0.0	59	7-19
FUNK G-449GBR	4460	16.6	6.2	73	5.0	3.3	0.0	0.0	45	7-16
TAYLOR-EVANS BIRD-A-BOO II*	4382	14.3	17.2	97	5.0	4.3	0.0	0.0	53	7-19
GOLDEN HARVEST H400B	4251	16.1	14.4	87	5.0	5.0	0.0	0.4	59	7-18
ACCO R 1029-A	4065	15.3	12.1	90	5.0	3.6	0.0	1.4	51	7-16

TABLE 9. CONTINUED.

BRAND / HYBRID	GRAIN		HEADS		CMPT- NESS (1-5)	EXSER- TION (1-5)	OFF-		PLANT HEIGHT (")	50% BLOOM DATE
	ACRE YIELD (LB)	MOIS- TURE (%)	LODGED PLANTS (%)	IN 20 FEET (#)			TYPE HEADS (%)	TALL PLANTS (%)		
P-A-G 5512	3895	13.6	9.7	88	4.6	3.3	0.0	0.7	49	7-18
FRONTIER 400-R	3838	12.6	7.1	82	3.3	3.0	0.0	0.3	48	7-18
NORTHROP KING 222A**	3435	18.3	12.9	79	5.0	3.3	2.5	0.4	49	7-18
MC CURDY M89YG	3314	14.0	27.9	81	4.6	4.6	0.0	0.0	54	7-16
DE KALB C-42A+	3217	15.5	12.3	89	5.0	4.6	0.0	0.0	50	7-16
GOLDEN HARVEST H300	2720	15.5	37.3	88	4.6	4.3	0.0	0.3	52	7-16
P-A-G 4432	2659	17.8	26.8	90	4.3	3.6	0.0	1.0	51	7-16
ACCO BR-Y93*	2539	19.5	33.6	94	5.0	5.0	0.0	0.7	55	7-18
MARTIN	2362	14.1	15.0	113	4.6	4.6	0.0	0.0	51	7-18
AVERAGE	5391	15.4	6.1	89	4.4	4.3	0.0	0.3	54	

LSD VALUE AT THE 5% LEVEL IS 914 POUNDS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE WILL DIFFER SIGNIFICANTLY 19 OF 20 TIMES GROWN.

LSD VALUE AT THE 20% LEVEL IS 585 POUNDS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE WILL DIFFER SIGNIFICANTLY 16 OF 20 TIMES GROWN.

\*\*WIDELY GROWN HYBRID.

\*\*BIRD-RESISTANT HYBRID. SINCE DIFFICULTY IS OFTEN ENCOUNTERED IN MARKETING THESE HYBRIDS, THEY SHOULD ONLY BE GROWN AFTER CAREFUL CONSIDERATION OF POTENTIAL BIRD AND MARKETING PROBLEMS.

\*\*\*BIRD RESISTANT AND WIDELY GROWN.

TABLE 10. SUMMARY PERFORMANCE OF GRAIN SORGHUM HYBRIDS EVALUATED AT THE SOUTHWEST CENTER NEAR MT.VERNON, MO. (LAWRENCE CO.) DURING THE 3-YEAR PERIOD 1975-77.

BRAND / HYBRID	ACRE YIELD (LB)	GRAIN MOIS- TURE (%)	LODGED PLANTS (%)	IN 20 FEET (#)	HEADS CMPT- NESS (1-5)	EXSER- TION (1-5)	OFF- TYPE HEADS (%)	TALL PLANTS (%)	PLANT HEIGHT (")	50% BLOOM DATE
WARNER W-866	4884	16.9	4.4	73	4.0	2.7	0.0	0.1	47	**
WARNER W-832	4868	16.1	1.0	68	2.8	2.9	0.0	0.4	45	**
FUNK G-522**	4770	14.8	3.0	76	4.2	2.3	0.0	0.2	41	**
ACCO R 109A**	4743	13.6	8.2	78	4.3	2.8	0.0	0.0	42	**
DE KALB E-59+**	4620	15.4	2.0	73	3.5	3.1	0.0	0.3	44	**
FERRY-MORSE ADVANCE 80	4598	14.3	2.0	70	4.1	2.4	0.1	0.4	43	**
M-F-A GS-10**	4550	13.6	2.2	77	4.2	2.5	0.1	0.0	41	**
ACCO R 1090	4530	13.9	9.1	71	4.7	3.1	0.0	0.0	44	**
ASGROW DORADO**	4381	15.8	4.0	68	3.9	2.8	0.0	0.0	41	**
PIONEER 8442**	4334	15.2	2.9	73	3.2	2.8	0.0	0.5	41	**
PIONEER 8311**	4299	16.7	2.5	71	3.7	2.1	0.0	0.2	42	**
MC NAIR 654**	4230	15.3	6.2	71	4.8	3.0	0.0	0.1	45	**
DE KALB C-42Y***	4180	14.0	1.7	65	4.0	3.9	0.0	0.0	47	**
NORTHRUP KING 222G**	4149	15.7	4.4	69	4.1	2.9	0.3	0.1	42	**
DE KALB E-57+**	3818	16.2	2.5	64	4.9	4.1	0.3	0.3	47	**
NORTHRUP KING SAVANNA 3***	3767	17.0	5.5	65	4.9	3.3	0.0	0.2	43	**
ACCO R 1029-A	3707	14.7	5.3	69	4.4	2.5	0.2	0.5	42	**
ACCO BR-Y93*	3651	16.9	13.2	79	4.7	3.9	0.3	0.7	45	**
TAYLOR-EVANS BIRD-A-BOO II*	3588	15.6	9.3	74	4.9	3.1	0.0	0.3	42	**
NGRTHRUP KING 222A**	3539	15.5	6.6	72	4.4	2.7	0.8	0.3	41	**
MARTIN	2123	15.3	7.9	70	3.8	3.1	0.0	0.0	40	**
AVERAGE	4158	15.4	5.0	71	4.2	2.9	0.1	0.2	43	**

\*BIRD-RESISTANT HYBRID. SINCE DIFFICULTY IS OFTEN ENCOUNTERED IN MARKETING THESE HYBRIDS, THEY SHOULD ONLY BE GROWN AFTER CAREFUL CONSIDERATION OF POTENTIAL BIRD AND MARKETING PROBLEMS.

\*\*WIDELY GROWN HYBRID.

\*\*\*BIRD-RESISTANT AND WIDELY GROWN HYBRID.

TABLE 11. SUMMARY PERFORMANCE OF GRAIN SORGHUM HYBRIDS EVALUATED AT THE SOUTHWEST CENTER NEAR MT.VERNON, MO. (LAWRENCE CO.) DURING THE 2-YEAR PERIOD 1976-77.

BRAND / HYBRID	ACRE YIELD (LB)	GRAIN MOISTURE (%)	LODGED PLANTS (%)	IN 20 FEET (#)	HEADS CMPT-NESS (1-5)	EXSEF-TION (1-5)	OFF-TYPE HEADS (%)	TALL PLANTS (%)	PLANT HEIGHT (")	50% BLOOM DATE
WARNER W-866	4821	22.8	5.7	84	3.8	3.1	0.0	0.1	50	8-12
P-A-G 5514	4751	18.8	1.7	92	3.6	3.5	0.2	0.5	46	8-15
ACCO R 109A**	4670	17.9	7.5	92	4.5	3.3	0.0	0.0	45	8-14
WAFNER W-832	4634	21.7	0.6	77	2.6	3.3	0.0	0.3	47	8-14
FUNK G-722DF	4539	21.8	0.8	75	2.1	2.8	0.0	0.3	51	8-20
PFIZER TROJAN M 59	4506	23.1	0.7	83	3.5	3.1	0.0	0.0	48	8-16
GREENBUSH GB-450	4490	18.0	0.9	80	4.1	3.0	0.0	0.1	44	8-15
MC NAIR 595D	4488	21.1	0.5	81	3.6	3.0	0.0	0.5	49	8-17
M-F-A GS-10**	4466	17.9	1.4	88	4.5	3.1	0.1	0.0	45	8-15
FRONTIER 412-R	4463	19.1	2.9	79	3.4	3.5	0.0	0.0	46	8-14
RING AROUND RA 808GB	4430	19.9	0.8	89	4.1	3.0	0.0	0.0	48	8-17
FUNK G-522**	4388	19.7	2.8	83	4.3	2.8	0.0	0.0	43	8-15
BROWNING 775W	4387	22.2	0.8	79	3.5	3.1	0.1	0.2	53	8-18
DE KALB E-55+***	4348	20.6	0.9	80	3.6	3.9	0.0	0.5	47	8-16
PFIZER TROJAN M 56	4274	19.2	1.6	84	4.1	3.1	0.3	0.8	45	8-14
MC CURDY M16YG	4266	17.7	1.4	78	3.8	3.1	0.0	0.1	44	8-16
PFIZER TROJAN M 56G	4247	18.3	0.7	91	3.6	3.6	0.0	0.0	46	8-15
DE KALB F-67	4245	19.3	1.8	86	3.6	3.8	0.0	0.1	46	8-18
ACCO R 109C	4237	18.4	3.5	78	4.5	3.6	0.0	0.0	46	8-14
FERRY-MORSE ADVANCE 80	4236	19.0	0.6	78	3.9	3.0	0.2	0.7	46	8-15
PIONEER 8311**	4156	22.6	1.6	82	4.0	2.6	0.0	0.3	46	8-15
TAYLOR-EVANS T-E Y-101-R	4089	18.1	2.5	82	3.8	3.3	0.0	0.4	44	8-15
CO-OP SG-40**	4067	19.6	0.6	78	4.5	3.4	0.0	0.0	45	8-14
MC NAIR 650**	4059	22.6	1.4	82	4.0	2.8	0.0	0.3	44	8-14
PIONEER 8442**	4038	20.3	1.1	80	2.8	3.1	0.0	0.8	44	8-17
ASGROW DORADO**	4027	21.2	2.9	74	3.9	3.1	0.0	0.0	44	8-15
MC NAIR 654**	3994	20.4	4.6	82	4.8	3.5	0.0	0.1	48	8-15
NORTHROP KING 222G**	3926	21.1	2.9	76	4.0	3.4	0.4	0.1	45	8-16
DE KALB C-42Y***	3808	18.5	0.3	73	4.0	4.6	0.0	0.0	51	8-15
PFIZER TROJAN M 55	3787	22.1	3.3	85	5.0	4.5	0.0	0.1	48	8-14
WARNER W-744*	3714	18.6	4.1	83	5.0	3.3	0.4	0.7	45	8-15
DE KALB E-57+***	3686	21.8	1.1	75	5.0	4.5	0.5	0.4	50	8-14
PFIZER TROJAN M 58G	3620	17.6	2.9	71	4.8	3.5	0.3	0.0	47	8-16
NORTHROP KING SAVANNA 3***	3457	23.0	2.1	69	4.8	4.0	0.0	0.3	46	8-14
P-A-G 5512	3430	17.8	4.8	82	3.9	2.6	0.0	0.3	43	8-13
NORTHROP KING 222A**	3219	20.7	6.7	78	4.5	3.0	1.3	0.2	44	8-12
ACCO R 1029-A	3206	19.5	6.1	78	4.5	3.1	0.3	0.7	45	8-13
MC CURDY M89YG	3175	18.8	14.3	81	3.9	3.8	0.0	0.0	47	8-11
TAYLOR-EVANS BIRD-A-BOD II*	3136	20.9	8.6	85	5.0	3.8	0.0	0.0	45	8-15
ACCO BR-Y93*	2610	22.8	16.8	88	5.0	4.8	0.4	1.0	48	8-14
MARTIN	2047	20.4	7.8	84	3.6	3.9	0.0	0.0	44	8-14
AVERAGE	4003	20.1	3.3	81	4.1	3.4	0.1	0.3	46	

\*BIRD-RESISTANT HYBRID. SINCE DIFFICULTY IS OFTEN ENCOUNTERED IN MARKETING THESE HYBRIDS, THEY SHOULD ONLY BE GROWN AFTER CAREFUL CONSIDERATION OF POTENTIAL BIRD AND MARKETING PROBLEMS.

\*\*WIDELY GROWN HYBRID.

\*\*\*BIRD-RESISTANT AND WIDELY GROWN HYBRID.

TABLE 12. PERFORMANCE OF GRAIN SORGHUM HYBRIDS EVALUATED AT THE W. L. CONNOR FARM NEAR PARMA, MISSOURI (STODDARD COUNTY) DURING 1977.

BRAND / HYBRID	ACRE YIELD (LB)	GRAIN MOISTURE (%)	LODGED PLANTS (%)	HEADS IN 20 FEET (#)	CMPT-NESS (1-5)	EXSEP-TION (1-5)	OFF-TYPE HEADS (%)	TALL PLANTS (%)	PLANT HEIGHT (")	50% BLOOM DATE
NORTHROP KING SAVANNA 5*	9501	15.0	6.0	66	1.0	4.0	0.4	2.4	673	7- 4
PIONEER 8442**	8977	16.0	1.9	72	3.0	2.0	1.2	1.2	530	7- 2
DE KALB BR-64*	8186	15.0	3.3	68	3.0	3.0	3.4	3.4	613	7- 4
FUNK G-72DR	8181	15.0	3.1	68	1.0	2.6	0.0	0.0	593	7- 2
NORTHROP KING BRAND 2884	8021	15.0	2.8	75	2.0	2.0	0.3	1.9	586	7- 5
PFIZER TROJAN M 56	7630	13.0	2.7	62	3.0	2.3	1.0	1.0	520	7- 5
FERRY-MORSE ADVANCE 80	7459	14.0	7.4	71	2.6	2.3	0.0	2.6	473	7- 2
ACCO R 1090	7224	15.0	15.5	63	2.3	2.6	0.4	0.0	513	7- 3
M-F-A GS-10**	7178	14.0	2.3	71	2.0	2.3	0.0	0.0	530	7- 8
P-A-G 662	6987	14.0	1.5	63	2.6	2.6	0.0	0.0	600	7- 3
WARNER W-832	6976	19.0	3.5	63	2.0	2.0	1.5	1.5	540	7- 2
TAYLOR-EVANS BIRD-A-BOO II*	6973	14.0	0.9	74	3.6	3.0	0.0	0.0	573	7- 4
P-A-G 5514	6879	14.0	3.6	66	3.0	2.0	1.0	1.5	490	7- 2
BROWNING 775W	6797	14.0	7.3	65	1.6	2.3	0.0	0.0	616	7- 5
MC CURDY M16YG	6752	14.0	2.1	64	2.0	3.0	0.0	0.0	463	7- 3
RING AROUND RA 808GB	6628	14.0	2.6	74	2.0	2.6	0.0	0.0	550	7- 3
NORTHROP KING 222G**	6596	16.0	0.8	70	2.6	2.3	0.0	0.0	550	7- 3
WARNER W-839DR	6543	14.0	4.2	68	1.6	2.0	0.0	1.9	536	7- 4
NORTHROP KING BRAND 2779	6476	13.0	1.6	64	1.6	2.3	1.1	1.1	540	7- 3
O'S GOLD 510	6399	18.0	6.0	66	3.0	3.0	0.0	0.0	523	7- 2
RING AROUND RA 733GB	6383	14.0	14.8	60	1.6	2.0	2.2	2.8	500	7- 3
FUNK G-522**	6339	14.0	6.1	60	2.0	2.6	0.4	0.4	466	7- 3
FERRY-MORSE ADVANCE 81GB	6309	15.0	0.5	67	2.3	2.3	0.0	0.0	496	7- 3
NORTHROP KING SAVANNA 3***	6305	16.0	5.6	72	3.6	2.0	0.0	0.4	530	7- 2
MC NAIR 650**	6285	14.0	6.2	66	2.3	2.3	1.8	1.8	556	7- 4
DE KALB E-59***	6247	20.0	2.8	71	1.6	3.0	0.9	1.3	580	7- 5
WARNER W-866	6223	18.0	9.4	54	3.3	2.6	0.0	1.8	586	7- 1
FUNK G-7C1GBR	6206	14.0	2.4	64	1.0	2.6	0.0	0.0	580	7- 3
ASGROW DORADO**	6183	16.0	6.8	64	4.3	2.0	1.0	1.0	466	7- 4
FRONTIER 412-R	6159	14.0	0.9	67	2.0	2.6	0.0	0.0	510	7- 3
FUNK G-623GBR	6128	16.0	2.6	73	2.3	2.3	0.0	0.0	513	7- 3
WARNER W-839T	6044	14.0	1.8	59	2.0	2.6	0.0	0.0	510	7- 4
FUNK G-642GBR	5978	14.0	10.8	68	2.3	2.3	0.0	0.0	536	7- 6
PIONEER 8311**	5962	14.0	5.8	59	2.0	2.6	0.0	0.0	513	7- 4
DE KALB F-67	5949	16.0	4.5	74	1.6	2.3	0.0	0.0	506	7- 4
ASGROW BUG-OFF M	5918	15.0	2.9	68	1.6	3.0	0.0	0.0	606	7- 2
TAYLOR-EVANS T-E Y-101-R	5916	14.0	2.4	67	2.3	2.0	0.8	0.5	513	7- 5
DE KALB E-57***	5853	14.0	1.3	73	4.6	3.3	0.4	0.4	586	7- 3
P-A-G 4432	5849	17.0	4.4	63	1.3	2.6	0.0	0.0	536	7- 1
BROWNING SPIRIT OF 76	5827	14.0	3.4	60	2.6	3.3	0.0	0.0	466	7- 1
M-F-A EXP-GB	5802	14.0	10.8	65	3.0	2.0	0.4	0.4	530	7- 2
WARNER W-744*	5749	14.0	23.1	72	3.6	2.3	0.0	0.0	553	7- 3
ACCO R 1029-A	5737	15.0	5.1	62	4.3	2.3	0.0	1.0	540	7- 2
RING AROUND RA EXP 9374	5715	15.0	2.5	67	1.3	2.3	0.0	0.0	573	7- 2
GREENBUSH GB-450	5710	14.0	4.9	61	1.6	2.0	0.0	0.0	453	7- 5
FERRY-MORSE ADVANCE 14	5692	14.0	3.0	70	2.6	2.6	0.0	0.0	573	7- 2
ACCO BR-Y93*	5680	17.0	13.2	74	2.0	3.3	0.0	0.0	540	7- 2
GOLDEN HARVEST H500B	5636	14.0	3.6	56	2.6	2.6	0.0	0.0	530	7- 3
PIONEER 8585	5616	14.0	9.1	69	2.6	3.3	2.9	5.5	443	7- 4
CO-OP SG-36 GBR	5614	13.0	3.9	75	2.6	2.3	0.0	0.0	540	7- 6
PFIZER TROJAN M 59	5474	15.0	12.5	60	1.6	2.0	1.7	0.0	533	7- 5
CO-OP SG-40 GBR	5465	14.0	2.7	68	2.0	2.3	1.1	1.1	490	7- 3
PFIZER TROJAN M 58G	5378	13.0	4.3	76	3.6	3.0	0.4	0.4	540	7- 3
RING AROUND RA EXP 9373	5364	17.0	5.5	65	1.3	2.0	2.1	2.1	563	7- 3
ACCO R 109A**	5363	14.0	8.5	71	4.0	2.0	0.0	0.0	503	7- 3
DE KALB E-57B+	5321	15.0	13.5	62	2.6	2.6	0.0	0.5	536	7- 3
GOLDEN HARVEST H300	5320	17.0	6.5	71	4.3	3.3	0.0	0.0	550	7- 1
PFIZER TROJAN M 56G	5249	14.0	9.9	72	2.3	3.0	0.0	0.0	490	7- 4
NORTHROP KING BRAND 2778	5146	14.0	20.8	72	1.6	2.3	0.0	0.0	506	7- 3
MC CURDY M51YG	5114	14.0	2.5	67	2.6	2.0	0.0	0.0	513	7- 2
CO-OP SG-40**	5109	14.0	4.4	60	2.6	2.0	0.0	0.0	443	7- 3
DE KALB C-42Y***	5047	14.0	1.1	68	1.6	2.6	0.0	0.0	573	7- 4
MC NAIR 695D	4974	16.0	4.0	65	1.3	2.6	0.9	0.9	546	7- 3
MC NAIR 654**	4941	16.0	32.9	75	3.0	2.0	0.0	0.0	546	7- 3
TAYLOR-EVANS T-E Y-111	4939	15.0	7.9	54	2.3	2.3	0.0	0.0	483	7- 2
PIONEER 8272	4877	14.0	16.0	62	2.0	2.3	0.0	0.0	573	7- 4
PIONEER 8592	4762	15.0	3.0	65	1.6	3.6	2.5	3.0	540	7- 4
FRONTIER 402-R	4758	14.0	0.0	63	2.0	2.3	0.0	1.4	540	7- 4
FUNK G-449GBR	4710	14.0	4.2	61	4.0	2.0	0.0	0.0	410	7- 2
DE KALB C-43Y+	4586	16.0	2.1	86	2.6	2.3	0.0	0.0	456	7- 3
GOLDEN HARVEST H265	4533	18.0	8.7	59	3.0	3.0	1.8	1.8	523	7- 3
FRONTIER 413-R	4497	16.0	8.4	60	2.6	3.3	1.2	2.4	530	7- 3
GOLDEN HARVEST H400B	4491	15.0	8.8	63	2.3	3.6	0.5	0.5	603	7- 1

TABLE 12. CONTINUED.

BRAND / HYBRID	ACRE YIELD (LR)	GRAIN MOIS- TURE (%)	LODGED PLANTS (%)	HEADS IN 20 FEET (#)	CMPT- NESS (1-5)	EXSER- TION (1-5)	OFF- TYPE HEADS (%)	TALL PLANTS (%)	PLANT HEIGHT (")	50% BLOOM DATE
PFIZER TROJAN M 55	4430	17.0	8.1	69	3.3	2.6	0.0	0.0	510	7- 2
PIONEER 8324	4366	14.0	10.6	57	1.6	2.3	1.9	1.9	433	7- 3
FRONTIER GX 103 EXP.	4353	14.0	29.1	53	2.3	3.0	0.6	0.6	523	7- 2
NORTHROP KING 222A**	4185	15.0	4.0	57	3.3	2.3	1.1	1.1	493	7- 3
DE KALB C-42A+	3844	14.0	16.2	66	2.6	2.0	0.5	2.7	463	7- 1
P-A-G 5512	3805	14.0	4.5	52	1.3	2.3	1.8	1.8	483	7- 3
MC CURDY M89YG	3197	17.0	17.1	58	2.0	3.6	0.0	0.0	483	7- 3
FRONTIER 400-R	3170	14.0	1.9	50	2.0	2.0	1.2	3.1	376	7- 1
AVERAGE	5828	14.9	6.6	66	2.4	2.5	0.5	0.8	525	

LSD VALUE AT THE 5% LEVEL IS 1432 POUNDS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE WILL DIFFER SIGNIFICANTLY 19 OF 20 TIMES GROWN.

LSD VALUE AT THE 20% LEVEL IS 916 POUNDS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE WILL DIFFER SIGNIFICANTLY 16 OF 20 TIMES GROWN.

\*WIDELY GROWN HYBRID.

\*\*BIRD-RESISTANT HYBRID. SINCE DIFFICULTY IS OFTEN ENCOUNTERED IN MARKETING THESE HYBRIDS, THEY SHOULD ONLY BE GROWN AFTER CAREFUL CONSIDERATION OF POTENTIAL BIRD AND MARKETING PROBLEMS.

\*\*\*BIRD RESISTANT AND WIDELY GROWN.

TABLE 13. AVERAGE PERFORMANCE RECORD OF GRAIN SORGHUM HYBRIDS EVALUATED AT FOUR MISSOURI LOCATIONS (KNOX, BOONE, LAWRENCE, AND STODDARD COUNTIES) DURING 1977.

BRAND / HYBRID	ACRE YIELD (LB)	GRAIN MOIS- TUPE (%)	LODGED PLANTS (%)	HEADS IN 20 FEET (#)	CMPT- NESS (1-5)	EXSER- TION (1-5)	OFF- TYPE HEADS (%)	TALL PLANTS (%)	PLANT HEIGHT (#)	50% BLOOM DATE
NCRTRHP KING SAVANNA 5*	7478	17.3	2.1	--	1.6	4.2	0.1	0.7	215	7-20
FUNK G-722DR	7463	16.4	1.0	--	2.1	3.3	0.0	0.8	190	7-20
NORTHROP KING BRAND 2884	7366	17.0	1.6	--	2.8	3.1	0.1	0.5	189	7-21
BROWNING 775W	7049	15.8	2.2	--	2.8	3.4	0.1	0.5	200	7-19
DE KALB BR-64*	6996	17.6	1.1	--	4.0	4.1	1.0	1.3	199	7- 2
P-A-G 662	6956	16.1	1.2	--	4.0	3.2	0.1	0.1	191	7-25
PIONEER 8442**	6839	15.3	1.1	--	3.3	3.1	0.3	0.6	170	7-23
FERRY-MORSE ADVANCE 80	6668	14.9	2.1	--	3.8	2.6	0.0	1.7	155	7-18
PFIZER TROJAN M 56	6646	15.8	1.5	--	3.7	2.9	0.3	1.1	167	7-26
DE KALB F-67	6601	16.7	2.0	--	3.2	3.1	0.0	0.3	164	7-19
FUNK G-522**	6588	15.7	2.9	--	3.6	3.2	0.1	0.4	154	7- 3
ACCO R 1090	6565	15.9	5.5	--	3.8	3.5	0.1	0.0	168	7-19
WARNER W-832	6520	16.9	1.1	--	2.9	2.8	0.4	1.1	173	7-21
FUNK G-701GBR	6475	15.6	1.3	--	2.2	2.8	0.0	0.1	183	7-19
MC NAIR 650**	6443	15.3	2.3	--	3.9	3.0	0.5	0.9	175	7-20
M-F-A GS-10**	6382	15.0	1.3	--	3.8	2.8	0.1	0.3	169	7-19
MC NAIR 654**	6378	15.8	10.5	--	3.8	3.3	0.0	0.5	178	7-20
RING AROUND RA 808GB	6357	16.3	1.1	--	3.4	3.4	0.0	0.2	178	7-21
WARNER W-839DR	6335	15.0	1.5	--	2.6	2.5	0.0	1.1	172	7- 4
PIONEER 8324	6331	15.9	3.6	--	2.9	2.5	0.5	0.8	147	7-19
RING AROUND RA EXP 9374	6321	15.4	1.8	--	2.9	3.4	0.0	0.1	182	7-18
WARNER W-866	6315	17.8	5.2	--	3.6	3.3	0.0	0.6	186	7-20
P-A-G 5514	6306	15.2	1.8	--	3.6	2.9	0.3	0.7	159	7-18
FRONTIER 412-R	6254	16.5	1.7	--	3.2	3.2	0.0	0.2	165	7-12
DE KALB E-59+**	6247	18.1	1.1	--	3.1	3.2	0.2	0.6	184	7-16
GREENBUSH GB-450	6213	15.9	1.7	--	3.3	2.7	0.0	0.2	149	7-18
MC CURDY M16YG	6206	14.7	1.3	--	3.1	3.1	0.0	0.3	152	7-19
ASGROW DORADO**	6190	15.1	2.4	--	4.1	2.6	0.3	0.3	152	7- 3
TAYLOR-EVANS BIRD-A-800 II*	6189	16.2	4.5	--	4.5	3.6	0.0	0.0	182	7-16
NORTHROP KING BRAND 2778	6166	16.2	6.6	--	2.9	3.4	0.0	0.1	168	7-22
DE KALB C-42Y+**	6116	14.5	0.5	--	3.2	4.0	0.0	0.1	185	7-16
MC NAIR 695D	6111	16.4	1.3	--	2.4	3.1	0.2	0.4	177	7- 5
RING AROUND RA EXP 9373	6076	16.2	2.5	--	2.7	3.3	0.5	0.7	182	7-19
PIONEER 8311**	6072	16.1	2.0	--	3.3	2.8	0.0	0.4	166	7-18
WARNER W-839T	6056	16.0	1.2	--	3.1	3.4	0.0	0.3	164	7-24
FUNK G-623GBR	6029	16.2	1.2	--	3.4	3.0	0.0	0.0	165	7-22
FUNK G-642GBR	6015	15.2	3.2	--	3.8	3.3	0.0	0.1	174	7- 4
ACCO R 109A**	5956	15.0	5.9	--	4.0	2.8	0.0	0.5	163	7-18
GOLDEN HARVEST H265	5944	16.8	3.5	--	3.7	3.4	0.5	0.5	170	7-21
FERRY-MORSE ADVANCE 81GB	5931	15.5	0.9	--	3.8	3.3	0.0	0.0	162	7-19
NORTHROP KING BRAND 222G**	5925	17.0	1.7	--	3.6	2.7	0.1	0.2	174	7- 3
CO-OP SG-40 GBR	5913	16.1	1.5	--	3.3	2.9	0.3	0.3	159	7-18
RING AROUND RA 733GB	5884	16.4	4.4	--	2.9	2.8	0.5	0.8	160	7- 2
PFIZER TROJAN M 59	5862	16.0	3.4	--	3.0	2.6	0.5	0.2	173	7-23
O'S GOLD 510	5810	16.3	2.6	--	3.6	3.5	0.0	0.5	167	7- 6
BROWNING SPIRIT OF 76	5808	16.0	1.8	--	3.3	3.3	0.0	0.4	153	7-17
DE KALB E-57B+	5803	16.3	3.8	--	3.4	3.7	0.2	0.7	176	7-19
FRONTIER 402-R	5791	15.0	0.5	--	3.1	3.1	0.0	1.0	174	7- 2
M-F-A EXP-GB	5771	15.6	3.5	--	3.2	2.7	0.1	0.3	169	7-19
PFIZER TROJAN M 56G	5765	15.3	2.8	--	3.2	3.2	0.0	0.0	159	7- 4
WARNER W-744*	5740	16.4	7.8	--	4.3	3.3	0.0	0.5	178	7- 3
TAYLOR-EVANS T-E Y-101-R	5728	15.9	1.7	--	3.3	3.0	0.2	0.2	165	7-18
NORTHROP KING BRAND 2779	5704	14.3	1.1	--	3.1	3.4	0.3	0.4	173	7-19
PIONEER 8272	5691	16.1	6.5	--	3.2	2.9	0.0	0.5	183	7-18
CO-OP SG-40**	5683	15.0	1.5	--	3.7	2.8	0.0	0.0	146	7- 2
GOLDEN HARVEST H500B	5665	15.3	2.3	--	3.6	3.2	0.0	0.0	169	7- 5
FRONTIER 413-R	5623	15.8	3.6	--	3.5	3.9	0.3	0.7	173	7-19
FRONTIER GX 103 EXP.	5621	15.8	8.3	--	3.5	3.9	0.1	0.4	172	7-25
DE KALB E-57+**	5595	15.3	0.9	--	4.6	4.0	0.1	0.3	188	7- 2
CO-OP SG-36 GBR	5545	15.3	1.5	--	4.0	3.2	0.0	0.1	174	7-16
ASGROW BUG-OFF M	5460	16.1	4.4	--	3.2	3.9	0.0	0.2	193	7-18
NORTHROP KING SAVANNA 3***	5452	16.1	2.5	--	4.3	3.1	0.0	0.1	170	7-19
PIONFER 8585	5439	15.0	3.4	--	3.1	3.4	0.7	2.0	146	7- 4
PFIZER TROJAN M 58G	5399	14.6	2.5	--	4.4	3.4	0.1	0.1	175	7-23
GOLDEN HARVEST H400B	5377	16.5	5.8	--	3.8	4.0	0.1	0.3	191	7-21
ACCO BR-Y93*	5363	18.8	11.7	--	3.6	4.4	0.0	0.4	176	7-18
ACCO R 1029-A	5324	15.7	4.3	--	4.3	2.9	0.1	0.7	172	7- 3
FERRY-MORSE ADVANCE 14	5308	14.9	1.4	--	4.0	3.8	0.0	0.5	184	7-21
MC CURDY M51YG	5275	14.9	1.3	--	3.4	2.8	0.0	0.4	163	7-22
PFIZER TROJAN M 55	5230	16.0	4.6	--	4.4	4.0	0.0	0.1	169	7-21
TAYLOR-EVANS T-E Y-111	5129	15.7	2.8	--	3.2	3.0	0.0	0.3	157	7- 1
P-A-G 4432	5107	16.9	8.1	--	2.9	2.9	0.0	0.3	169	7-19
P-A-G 5512	5107	14.3	3.5	--	2.9	2.6	0.5	0.7	156	7- 3

TABLE 13. CONTINUED.

BRAND / HYBRID	ACRE YIELD (LB)	GRAIN MOIS- TURE (%)	LODGED PLANTS (%)	HEADS IN 20 FEET (#)	CMPT- NESS (1-5)	EXSER- TION (1-5)	OFF- TYPE HEADS (%)	TALL PLANTS (%)	PLANT HEIGHT (")	50% BLOOM DATE
PIONEER 8592	5070	16.6	2.8	--	2.8	3.9	0.6	1.2	177	7-16
DE KALB C-43Y+	4879	17.1	0.9	--	2.9	2.6	0.0	0.5	146	7-19
DE KALB C-42A+	4654	16.7	7.1	--	3.9	3.1	0.1	0.8	153	7-20
FUNK G-449GBR	4583	16.3	2.6	--	4.2	2.5	0.0	0.1	135	7-18
NORTHRUP KING 222A**	4464	16.6	4.2	--	4.1	2.8	0.9	0.4	159	7- 3
GOLDEN HARVEST H300	4432	16.3	11.0	--	4.1	3.9	0.0	0.1	175	7- 1
MC CURDY M89YG	4301	15.8	11.3	--	3.5	3.9	0.0	0.1	161	7-19
FRONTIER 400-R	4041	14.5	2.3	--	2.6	1.9	0.3	1.1	126	7-17
AVERAGE	5895	15.9	3.2	--	3.4	3.2	0.1	0.5	170	

LDS VALUE AT THE 5% LEVEL IS 728 POUNDS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE WILL DIFFER SIGNIFICANTLY 19 OUT OF 20 TIMES GROWN.

LSD VALUE AT THE 20% LEVEL IS 475 POUNDS. HYBRIDS DIFFERING BY MORE THAN THIS VALUE WILL DIFFER SIGNIFICANTLY 16 OUT OF 20 TIMES GROWN.

\*BIRD-RESISTANT HYBRID. SINCE DIFFICULTY IS OFTEN ENCOUNTERED IN MARKETING THESE HYBRIDS, THEY SHOULD ONLY BE GROWN AFTER CAREFUL CONSIDERATION OF POTENTIAL BIRD AND MARKETING PROBLEMS.

\*\*WIDELY GROWN HYBRID.

\*\*\*BIRD-RESISTANT AND WIDELY GROWN HYBRID.

Table 14. Hybrid and seed source of grain sorghum entries evaluated in 1977.

Brand	Hybrid	Seed Source
ACCO	R109A, R1090 R1029-A, BR-Y93	ACCO Seed, P.O. Box 1630, Plainview, TX 79072
Advance	Advance 14, Advance 80, Advance 81GB	Ferry-Morse Seed Co., 600 E. Exchange Street, Geneseo, IL 61254
Asgrow	Dorado, Bug-Off M	Asgrow Seed Company, P.O. Box 2010, Des Moines, IA 50310
Browning	775W, Spirit of 76	Browning Seed Co., P.O. Box 1836, Plainview, TX 79072
COOP	SG-40, SG-40GBR, SG-36GBR	Farmland Industries, Inc., P.O. Box 7305, Kansas City, MO 64116
DeKalb	E-57, C-42-Y+, E-59+, E-57b+, C-42a+, F-67, BR-64, C-43Y+	DeKalb Ag Research, Inc., Route 2, Lubbock, TX 79415
Frontier	400-R, 402-R, 412-R, 413-R, GX 103 Exp.	Frontier Seeds Ltd., P.O. Box 460, Hutchinson, KS 67501
Funk	G-522, G-623GBR, G-499GBR, G-701GBR, G-642GBR, G-722DR	Funk Seeds, Int., 719 26th St., Lubbock, TX 79404
Golden Harvest	H265, H500B, H400B, H300	Columbiana Seed Co., Eldred, IL 62027
Greenbush	GB-450	Greenbush Seed & Supply, Inc., Route 4, Girard, KS 66743
McCurdy	M89YG, M51YG, M16YG	McCurdy Seed Co., Fremont, IA 52561
McNair	654, 650, 695D	McNair Seed Co., P.O. Box 706, Laurinburg, NC 28352
MFA	GS-10, Exp-GB	MFA Seed Division, 201 South Seventh, Columbia, MO 65201
Northrup-King	222 G, Savanna 3, 222A, 2778, 2779, 2884, Savanna 5	Northrup King Co., P.O. Box 370, Richardson, TX 75080
O's Gold	510	O's Gold Seed Co., Parkersburg, IA 50665

Table 14. Continued.

Brand	Hybrid	Seed Source
P-A-G	4432, 5512, 5514, 662	P-A-G Seeds, P.O. Box 9480, Dept. 16, Minneapolis, MN 55440
Pioneer	8442, 8311, 8324, 8272, 8585, 8592	Garst & Thomas Hybrid Corn Co., Coon Rapids, IA 50058
Ring Around	808 GB, 733 GB, 9373, 9374	Ring Around Products, P.O. Box 1629, Plainview, TX 79072
Taylor-Evans	T-E Y111, T-E Y-101-R, T-E Bird-A-Boo II	Taylor-Evans Seed Co., P.O. Box 68, Tulia, TX 79088
Trojan	M 56, M56G, M58G, M59, M55	Pfizer Genetics, Inc., 1239 73rd, Suite D, Des Moines, IA 50311
Warner	W-832, W-839T, W-839DR, W-866, W-744	George Warner Seed Co., P.O. Box 1448, Hereford, TX 79045

## PART II, SOYBEANS

### INTRODUCTION

The choice of a soybean variety or blend should be based on performance and cost of seed relative to other available varieties. The Missouri Soybean Trials were conducted to provide farmers with unbiased performance information upon which they could base this choice. In 1977, the emphasis of the program was to provide agronomic data on the ever increasing number of commercial varieties and blends that could be evaluated along with the experiment station lines.

### TESTING PROCEDURES

#### Locations

Entries were evaluated at one or more locations within each area (Fig. 2). The state is divided into five areas--Area I, Northern Missouri; Area II, Central Missouri; Area III, Southwestern Missouri; Area IV, South Central Missouri; and Area V, Southeast Missouri (Bootheel). Since Area IV contains very little row crop production, no trials were conducted in this area. Results from Area V are not included in this publication, but are available in a Department of Agronomy Misc. Publication, which may be obtained from the Delta Research Center in Portageville.

#### Row Width

The tests in Area I, II, and III were grown in 2-row plots with 30-inch spacings between rows. Both rows were harvested to obtain acre yields. In the Bootheel (Area V), 3-row plots were used with 38-inch spacings between the rows. The center row was used to determine acre yield.

#### Entries

Seed companies, Missouri Seed Improvement Association, and other interested agricultural experiment stations included entries in 1977 Missouri Soybean Performance Trials. All 1977 entries were submitted voluntarily or by invitation, and no attempt was made to include commercial brands that were not voluntarily entered.

#### Maturity

A variety was considered mature when approximately 75% of the pods had turned color. Harvesting was accomplished as soon after maturity as possible.

#### Lodging

Lodging notes were taken at maturity. A scale of 1 to 5 was used and is to be interpreted as follows:

- 1 = all plants erect;
- 2 = all plants leaning slightly or a few plants down;
- 3 = all plants leaning moderately or 20 to 50% down;
- 4 = all plants leaning considerably or 50 to 80% down;
- 5 = all plants down.

#### Yield

Yield was determined by weighing the seed from each plot and converting these weights to bushels per acre. Plot yields in Area I, II, and III were adjusted to 13.0% moisture. Those in the Bootheel (Area V) were allowed to dry to a constant weight with no correction for moisture content.

### Seed Quality

Seed quality ratings, where given, represent seed coat color, uniformity of size, brightness, wrinkling, and disease prevalence. Seed quality was rated from 1 to 5 according the following scale:

- 1 = very good;
- 2 = good;
- 3 = fair;
- 4 = poor;
- 5 = very poor.

### Shattering

Shattering is rated as follows: 0 = no shattering; 9 = severe shattering.

Numbers between zero and nine indicate intermediate levels of shattering.

### Pod Height

A relative measure of lower pod height above the soil surface is provided.

## RESULTS

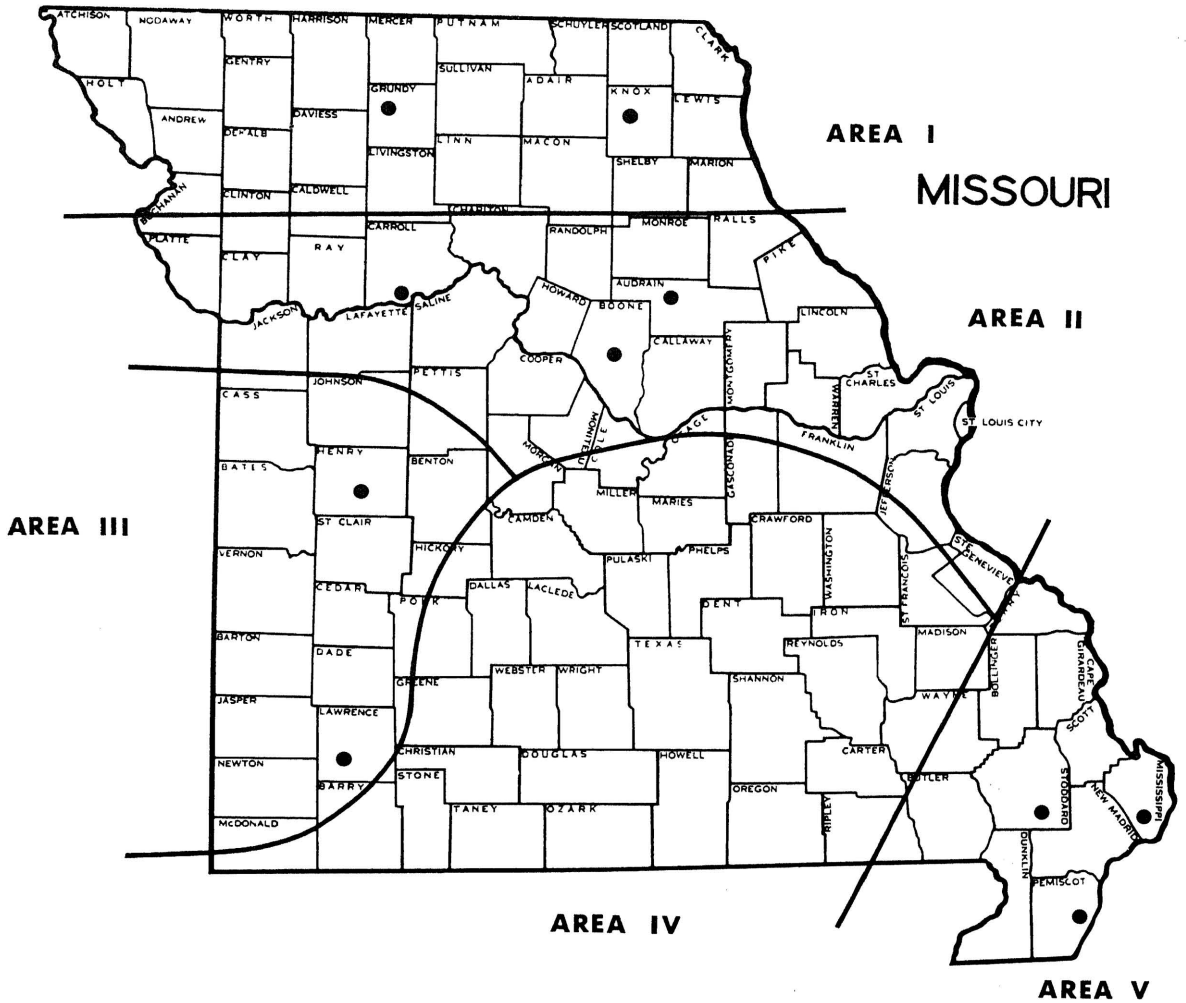
The results of the performance trials are shown in Tables 16 - 25.

Table 15. Cultural practices applied to the 1977 soybean evaluation plots.

Location	Soil Test			Fertilizer Added	Insecticide	Herbicide*	Row Width (in.)	Planting		Harvest Date	Cooperator (Town)
	O. M.	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O					Rate**	Date		
Area I (Grundy Co.)	3.4	310	330	0-80-105	None	Lasso + Lorox	30	10	5-17	11-10	North Missouri Center (Spickard)
Area I (Knox Co.)	2.2	185	165		None	Lasso + Lorox	30	10	5-13	10-18	Lynn Douglas (Edina)
Area II (Carroll Co.)	4.5	760	930		None	Lasso + Lorox	30	10	5-14	10-04	Holton Eschenbach (Norborne)
Area II (Boone Co.)	2.0	315	355	0-50-190	None	Lasso + Lorox	30	10	5-12	9-26	Agronomy Research Center (Columbia)
Area II (Audrain Co.)	2.8	35	180	0-0-120	None	Lasso + Lorox	30	10	5-12	9-29	D. C. Matthews (Mexico)
Area III (Henry Co.)	2.4	163	225		None	Lasso + Lorox	30	10	5-24	10-13	Thomas Kinyon (Clinton)
Area III (Lawrence Co.)	2.8	436	390	24-96- 96	None	Lasso + Lorox	30	10	5-16	10-20	Southwest Center (Mt. Vernon)

\*Applied at recommended rates. See MU Guide 4437 for 1977 weed control recommendations.

\*\*Seeds per foot of row.



**FIG. 2. SOYBEAN TEST SITE LOCATIONS.**

TABLE 16. SUMMARY PERFORMANCE OF SOYBEAN VARIETIES EVALUATED IN GRUNDY AND KNOX COUNTIES (AREA I) DURING 1977. LOCATIONS WERE NEAR SPICKARD AND EDINA.

BRAND/VARIETY	ACRE YIELD (BU)	LODGING SCORE* (1_5)	SEED QUALITY SCORE* (1_5)	SHATTERING SCORE* (0_9)	PLANT HEIGHT (IN)	HEIGHT FIRST NODE (IN)	MATURITY DATE
IOWA A73-25050	42.0	2.1	--	0.8	28	3	9- 6
AMSDY 71	35.0	1.6	--	0.6	33	3	9- 8
PFIZER CX 290	43.5	1.3	--	0.5	30	3	9-10
LEWIS 41	41.6	2.1	--	0.8	31	5	9-22
NORTHROP KING MULTIVAR 80	46.7	1.8	--	0.8	32	4	9-22
ASGROW A3860	42.4	1.2	--	0.5	30	4	9-25
WAYNE	42.2	2.3	--	1.0	31	3	9-26
IOWA A74-303012	47.3	1.3	--	0.6	27	3	9-27
LAND O'LAKES LL 4102	45.3	1.6	--	0.8	30	4	9-27
PFIZER CX 350	45.6	1.9	--	1.1	32	4	9-27
PFIZER CX 215	41.4	1.8	--	1.1	29	4	9-27
SRF 307P	43.8	2.7	--	1.1	33	5	9-27
WILLIAMS	49.8	1.6	--	0.6	30	5	9-27
AMERICANA XK 351	43.3	3.3	--	0.8	37	2	9-29
CALLAND	43.9	2.1	--	0.8	33	4	9-29
ELF (ILLINOIS)	47.6	1.1	--	0.5	20	4	9-29
FERRY-MORSE GOLD TAG 1330	45.0	2.1	--	1.3	34	4	9-29
FUNK G-3340	45.6	1.3	--	0.6	27	4	9-29
IOWA A74-303013	46.8	1.6	--	0.8	29	3	9-29
LEWIS 31	46.4	1.9	--	0.8	34	4	9-29
LEWIS 21	44.0	1.6	--	0.8	28	3	9-29
NORTHROP KING EXP. 101644	47.5	2.1	--	0.6	31	4	9-29
PETERSON 2120T	46.3	1.8	--	0.8	32	4	9-29
PFIZER CB 347	44.3	2.3	--	0.8	30	3	9-29
PFIZER 9L-75	45.1	1.9	--	0.8	31	3	9-29
PFIZER CX 285	40.7	1.5	--	0.6	30	4	9-29
PFIZER E 414	46.8	1.8	--	0.6	30	4	9-29
SRF 350	42.6	2.9	--	1.3	33	4	9-29
SRF 72-3299	47.5	2.0	--	0.5	33	2	9-29
UNION (ILLINOIS)	47.8	2.2	--	0.6	34	4	9-29
WOODWORTH	45.5	1.8	--	0.8	31	5	9-29
AMERICANA XK 333	45.6	2.3	--	0.8	36	3	9-30
BONUS	49.9	2.1	--	0.6	36	4	9-30
FERRY-MORSE GOLD TAG 1310	48.6	1.3	--	0.5	30	4	9-30
MERSCHMAN WASHINGTON IV	45.6	1.3	--	1.0	33	5	9-30
PETERSON 3125	48.6	2.1	--	0.6	34	4	9-30
PFIZER CB 390	47.3	1.6	--	0.5	32	3	9-30
AGRIPRO 35	44.1	2.3	--	1.6	31	5	10- 1
ASGROW A3585	49.3	1.3	--	0.6	30	3	10- 2
ASGROW A3440	44.5	1.6	--	0.8	30	4	10- 2
LEWIS 32	43.8	1.4	--	0.8	31	5	10- 2
LYNNVILLE RIVERSIDE 74-57EXP	46.0	1.6	--	0.5	34	3	10- 2
NORTHROP KING MULTIVAR 91	43.8	2.3	--	0.5	34	4	10- 2
SRF 400	44.7	2.5	--	0.8	33	3	10- 3
AGRIPRO 36	48.3	1.8	--	1.0	32	5	10- 4
AGRIPRO 27	46.2	1.3	--	0.6	28	3	10- 4
AMERICANA XK 440	47.6	2.5	--	0.8	32	4	10- 4
AMERICANA XR 70	48.6	1.8	--	0.6	33	4	10- 4
SRF 72-3176	46.3	1.9	--	0.8	33	3	10- 4
ASGROW XP4268	49.0	1.5	--	0.6	28	5	10- 6
CLARK 63	46.3	2.6	--	0.5	35	4	10- 6
CUTLER 71	44.1	1.9	--	0.8	34	4	10- 6
FFR 4202	45.5	2.4	--	0.6	36	7	10- 6
LEWIS EXP. 7B	47.6	1.8	--	0.6	33	3	10- 6
LEWIS 42	43.3	1.8	--	0.8	35	3	10- 6
MERSCHMAN RICHMOND	49.0	2.4	--	0.5	32	3	10- 6
MITCHELL	47.3	2.9	--	0.8	35	5	10- 6
N.A.P.B. EX418	49.6	2.6	--	0.8	35	4	10- 6
N.A.P.B. EX401	49.9	2.8	--	0.8	35	3	10- 6
SRF 425	45.4	2.3	--	0.8	32	6	10- 6
RING AROUND RA(C)36	47.1	3.9	--	0.8	33	3	10-13
SRF X73-89	51.1	2.1	--	0.6	35	5	10-13
SRF 450	51.1	1.8	--	0.8	35	5	10-13
AVERAGE	45.8	2.0	--	0.7	32	4	
LSD(.05)**	4.8						

\*1 = NO LODGING, 5 = COMPLETE LODGING; 1 = HIGH QUALITY, 5 = POOR QUALITY; 0 = NO SHATTERING, 9 = SEVERE SHATTERING.

\*\*DIFFERENCES BETWEEN VARIETIES GREATER THAN THE GIVEN LEAST SIGNIFICANT DIFFERENCE (L.S.D.) CAN BE CONSIDERED DUE TO VARIETIES 19 OUT OF 20 TIMES GROWN.

\*\*\*MATURITY DATE NOT AVAILABLE.

TABLE 17. TWO AND THREE-YEAR PERFORMANCE RECORD OF SOYBEAN VARIETIES EVALUATED AT THE NORTH MISSOURI CENTER NEAR SPICKARD, MO. (GRUNDY CO.), DURING THE PERIOD 1975-77.

BRAND/VARIETY	ACRE YIELD (BU)	LODGING SCORE* (1_5)	SEED QUALITY SCORE* (1_5)	SHAT- TERING SCORE* (0_9)	PLANT HEIGHT (IN)	HEIGHT FIRST NODE (IN)	MA- TURITY DATE
2-YEAR AVERAGE							
AMSOY 71	29.6	1.9	--	--	29	--	9-09
NORTHROP KING MULTIVAR 80	36.3	2.0	--	--	29	--	9-19
WAYNE	33.3	2.9	--	--	29	--	9-20
SRF 307P	35.1	2.8	--	--	30	--	9-20
LEWIS 31	38.5	2.3	--	--	33	--	9-21
LEWIS 21	37.1	1.8	--	--	26	--	9-21
PFIZER CX 285	35.0	2.0	--	--	27	--	9-21
SRF 350	35.5	3.3	--	--	29	--	9-21
LEWIS 41	38.0	2.5	--	--	30	--	9-22
PETERSON 2120T	39.1	2.0	--	--	28	--	9-23
WOODWORTH	36.8	2.1	--	--	29	--	9-24
WILLIAMS	39.9	1.8	--	--	28	--	9-24
ASGROW A3585	38.5	2.0	--	--	26	--	9-24
PFIZER CX 350	37.7	2.1	--	--	30	--	9-24
PFIZER 9L-75	37.4	2.1	--	--	28	--	9-25
PETERSON 3125	40.3	2.1	--	--	30	--	9-26
CALLAND	40.3	2.6	--	--	31	--	9-26
BONUS	40.1	2.3	--	--	33	--	9-26
SRF 400	35.8	2.8	--	--	31	--	9-26
ASGROW A3440	38.4	2.1	--	--	29	--	9-27
CLARK 63	34.9	2.6	--	--	31	--	9-29
SRF 425	35.0	2.6	--	--	31	--	9-29
AMERICANA XR 70	39.8	2.0	--	--	30	--	9-29
CUTLER 71	37.6	2.0	--	--	31	--	9-29
MITCHELL	38.8	3.0	--	--	32	--	9-30
SRF X73-89	40.3	2.5	--	--	34	--	10-08
SRF 450	39.1	2.1	--	--	31	--	10-09
AVERAGE	37.3	2.3	--	--	30	--	
3-YEAR AVERAGE							
AMSOY 71	30.4	1.6	--	--	29	--	**
NORTHROP KING MULTIVAR 80	36.1	1.7	--	--	30	--	**
WAYNE	31.4	2.3	--	--	30	--	**
SRF 307P	33.8	2.2	--	--	30	--	**
SRF 350	35.7	2.5	--	--	30	--	**
PETERSON 2120T	37.4	1.7	--	--	29	--	**
WOODWORTH	36.3	1.7	--	--	29	--	**
WILLIAMS	37.2	1.6	--	--	29	--	**
PFIZER 9L-75	36.4	1.8	--	--	29	--	**
PFIZER CX 350	37.2	1.7	--	--	30	--	**
PETERSON 3125	39.4	1.8	--	--	31	--	**
CALLAND	37.1	2.1	--	--	30	--	**
BONUS	38.7	1.8	--	--	33	--	**
SRF 400	35.7	2.2	--	--	31	--	**
CLARK 63	35.5	2.1	--	--	31	--	**
SRF 425	35.2	2.1	--	--	32	--	**
AMERICANA XR 70	38.7	1.7	--	--	30	--	**
CUTLER 71	35.1	1.7	--	--	30	--	**
MITCHELL	38.3	2.4	--	--	32	--	**
SRF 450	35.1	1.7	--	--	32	--	**
AVERAGE	36.0	1.9	--	--	30	--	

\*1 = NO LODGING. 5 = COMPLETE LODGING; 1 = HIGH QUALITY. 5 = POOR QUALITY; 0 = NO SHATTERING. 9 = SEVERE SHATTERING.

\*\*MATURITY DATE NOT AVAILABLE.

TABLE 18. TWO AND THREE-YEAR PERFORMANCE RECORD OF SOYBEAN VARIETIES EVALUATED AT THE LYNN DOUGLAS FARM NEAR EDINA, MO. (KNOX CO.), DURING THE PERIOD 1975-77.

BRAND/VARIETY	ACRE YIELD (BU)	LODG- ING SCORE* (1_5)	SEED QUALITY SCORE* (1_5)	SHAT- TERING SCORE* (0_9)	PLANT HEIGHT (IN)	HEIGHT FIRST NODE (IN)	MA- TURITY DATE
2-YEAR AVERAGE							
AMSDY 71	32.0	2.8	--	--	36	--	**
NORTHROP KING MULTIVAR 80	39.4	2.4	--	--	34	--	**
LEWIS 41	32.2	2.5	--	--	35	--	**
PFIZER CX 350	38.4	2.6	--	--	33	--	**
WILLIAMS	42.3	2.3	--	--	32	--	**
WAYNE	37.4	2.4	--	--	34	--	**
SRF 307P	40.3	2.8	--	--	35	--	**
LEWIS 31	38.0	2.6	--	--	36	--	**
WOODWORTH	40.1	2.4	--	--	33	--	**
PFIZER 9L-75	39.6	2.5	--	--	33	--	**
PFIZER CX 285	34.3	2.3	--	--	32	--	**
CALLAND	36.3	2.6	--	--	35	--	**
PETERSON 2120T	37.7	2.3	--	--	33	--	**
LEWIS 21	37.4	2.5	--	--	30	--	**
SRF 350	39.6	2.8	--	--	35	--	**
BONUS	37.6	2.6	--	--	37	--	**
PETERSON 3125	37.3	2.6	--	--	34	--	**
ASGROW A3585	41.3	2.1	--	--	32	--	**
ASGROW A3440	37.5	2.4	--	--	32	--	**
SRF 400	38.1	2.6	--	--	34	--	**
AMERICANA XR 70	36.6	2.6	--	--	34	--	**
CLARK 63	38.6	2.6	--	--	36	--	**
MITCHELL	36.1	2.9	--	--	36	--	**
SRF 425	40.6	2.8	--	--	36	--	**
CUTLER 71	34.5	2.8	--	--	36	--	**
SRF X73-89	40.1	2.6	--	--	34	--	**
SRF 450	39.4	2.4	--	--	34	--	**
AVERAGE	37.9	2.6	--	--	34	--	
3-YEAR AVERAGE							
AMSDY 71	34.3	2.2	--	--	35	--	**
WAYNE	40.0	2.3	--	--	33	--	**
SRF 307P	42.6	3.0	--	--	34	--	**
WOODWORTH	41.7	2.1	--	--	32	--	**
PETERSON 2120T	39.0	2.2	--	--	33	--	**
NORTHROP KING MULTIVAR 80	41.0	2.0	--	--	33	--	**
SRF 350	41.3	3.0	--	--	35	--	**
WILLIAMS	44.8	1.9	--	--	30	--	**
PFIZER 9L-75	40.9	2.1	--	--	33	--	**
CALLAND	39.4	2.2	--	--	34	--	**
PFIZER CX 350	39.5	2.2	--	--	33	--	**
SRF 400	41.2	2.5	--	--	33	--	**
BONUS	39.0	2.5	--	--	36	--	**
PETERSON 3125	40.9	2.5	--	--	33	--	**
AMERICANA XR 70	38.7	2.3	--	--	33	--	**
CLARK 63	40.4	2.6	--	--	35	--	**
MITCHELL	42.9	3.0	--	--	34	--	**
SRF 425	43.5	3.3	--	--	35	--	**
CUTLER 71	37.0	2.7	--	--	35	--	**
SRF 450	42.8	4.0	--	--	33	--	**
AVERAGE	40.5	2.5	--	--	34	--	

\*1 = NO LODGING, 5 = COMPLETE LODGING; 1 = HIGH QUALITY, 5 = POOR QUALITY; 0 = NO SHATTERING, 9 = SEVERE SHATTERING.

\*\*MATURITY DATE NOT AVAILABLE.

TABLE 19. SUMMARY PERFORMANCE OF SOYBEAN VARIETIES EVALUATED IN CARROLL, BOONE, AND AUD-  
CAIN COUNTIES (AREA II) DURING 1977. LOCATIONS WERE NORBORNE, COLUMBIA, AND  
MEXICO.

BRAND/VARIETY	ACRE YIELD (BU)	LODGING SCORE* (1_5)	SEED QUALITY SCORE* (1_5)	SHAT- TERING SCORE* (0_9)	PLANT HEIGHT (IN)	HEIGHT FIRST NODE (IN)	MA- TURITY DATE
AMSOY 71	38.5	4.7	--	0.0	45	3	**
IOWA A73-25050	41.4	4.3	--	0.0	38	3	**
LEWIS 21	43.5	3.6	--	0.0	39	3	**
PFIZER CX 290	41.7	4.3	--	0.0	42	4	**
PFIZER CX 285	40.9	4.0	--	0.0	41	4	**
FUNK G-3340	44.0	4.6	--	0.0	42	3	**
PFIZER CX 215	43.4	4.2	--	0.0	41	4	**
WAYNE	41.1	4.2	--	0.0	44	4	**
LEWIS 32	42.1	4.1	--	0.0	44	4	**
AGRIPRO 27	43.8	3.2	--	0.0	40	4	**
AGRIPRO 36	44.3	3.5	--	0.0	43	4	**
AMERICANA XK 333	44.0	3.7	--	0.0	50	4	**
CALLAND	40.8	4.1	--	0.0	39	3	**
FERRY-MORSE GOLD TAG 1310	43.4	3.5	--	0.0	40	4	**
IOWA A74-303013	45.9	3.1	--	0.0	39	4	**
PFIZER CX 350	40.9	4.1	--	0.0	44	4	**
PFIZER CB 347	46.1	3.6	--	0.0	44	4	**
SRF 307P	43.8	4.1	--	0.0	45	4	**
SRF 72-3299	44.1	4.3	--	0.0	43	3	**
WOODWORTH	45.3	3.7	--	0.0	43	4	**
AGRIPRO 35	45.0	3.6	--	0.0	43	4	**
FERRY-MORSE GOLD TAG 1330	46.0	3.6	--	0.0	50	3	**
IOWA A74-303012	45.5	3.7	--	0.0	40	4	**
LEWIS 31	46.9	3.6	--	0.0	48	4	**
NORTHROP KING MULTIVAR 80	45.3	3.1	--	0.0	43	4	**
PFIZER 9L-75	45.3	4.0	--	0.0	42	4	**
FFR 444	39.5	4.1	--	0.0	42	4	**
LEWIS 41	42.3	4.4	--	0.0	43	3	**
LEWIS EXP. 7B	47.3	4.3	--	0.0	43	4	**
LEWIS 42	41.7	4.1	--	0.0	47	4	**
NORTHROP KING EXP. 101644	45.6	4.1	--	0.0	42	4	**
NORTHROP KING MULTIVAR 91	43.8	3.6	--	0.0	44	4	**
PFIZER E 414	47.3	2.8	--	0.0	44	4	**
PFIZER CB 390	43.5	3.7	--	0.0	42	4	**
FFR 4202	39.9	3.2	--	0.0	45	5	**
LYNNVILLE RIVERSIDE 74-57EXP	43.8	4.1	--	0.0	46	4	**
SRF 350	45.9	3.6	--	0.0	46	4	**
SRF 400	38.9	4.1	--	0.0	43	4	**
UNION (ILLINOIS)	44.4	3.6	--	0.0	45	4	**
WILLIAMS	46.9	3.0	--	0.0	44	4	**
AMERICANA XK 351	40.0	4.5	--	0.0	45	4	**
ELF (ILLINOIS)	44.8	1.6	--	0.0	22	2	**
AMERICANA XR 70	39.9	3.6	--	0.0	43	4	**
BELLATTI L-263A	39.7	3.6	--	0.0	43	4	**
CUTLER 71	41.4	3.6	--	0.0	44	4	**
AMERICANA XK 440	48.0	3.6	--	0.0	42	4	**
BONUS	43.8	3.5	--	0.0	46	4	**
CLARK 63	36.3	3.9	--	0.0	45	4	**
N.A.P.B. EX401	43.9	4.3	--	0.0	44	3	**
SRF 425	45.0	4.2	--	0.0	45	4	**
MITCHELL	50.4	3.9	--	0.0	45	3	**
N.A.P.B.EX418	46.4	4.3	--	0.0	45	4	**
PJMONA	44.1	2.7	--	0.0	43	4	**
KANSAS K1017	50.8	3.7	--	0.0	47	4	**
SRF X73-89	46.1	3.2	--	0.0	43	4	**
SRF 450	45.3	3.5	--	0.0	44	4	**
KANSAS K1019	46.4	3.7	--	0.0	47	4	**
RING AROUND RA(C)36	44.4	4.6	--	0.0	44	3	**
AVERAGE	43.8	3.8	--	0.0	43	4	
LSD(.05)**	3.2						

\*1 = NO LODGING, 5 = COMPLETE LODGING; 1 = HIGH QUALITY, 5 = POOR QUALITY; 0 = NO SHATTERING,  
9 = SEVERE SHATTERING.

\*\*DIFFERENCES BETWEEN VARIETIES GREATER THAN THE GIVEN LEAST SIGNIFICANT DIFFERENCE (L.S.D.) CAN  
BE CONSIDERED DUE TO VARIETIES 19 OUT OF 20 TIMES GROWN.

\*\*MATURITY DATE NOT AVAILABLE.

TABLE 20. TWO AND THREE-YEAR PERFORMANCE RECORD OF SOYBEAN VARIETIES EVALUATED AT THE HOLTEN ESCHENBACH FARM NEAR NORBORNE, MO. (CARROLL CO.), DURING THE PERIOD 1975-77.

BRAND/VARIETY	ACRE YIELD (BU)	LODG- ING SCORE* (1_5)	SEED QUALITY SCORE* (1_5)	SHAT- TERING SCORE* (0_9)	PLANT HEIGHT (IN)	HEIGHT FIRST NODE (IN)	MA- TURITY DATE
2-YEAR AVERAGE							
SRF 307P	34.1	3.4	--	--	39	--	**
AMSOY 71	29.3	3.0	--	--	37	--	**
WAYNE	35.4	3.0	--	--	40	--	**
LEWIS 31	36.6	2.8	--	--	43	--	**
WOODWORTH	36.1	2.3	--	--	34	--	**
SRF 350	34.4	2.4	--	--	40	--	**
AGRIPRO 35	36.0	2.8	--	--	37	--	**
LEWIS 41	33.8	3.0	--	--	39	--	**
LEWIS 21	32.0	3.0	--	--	33	--	**
AGRIPRO 36	34.5	2.8	--	--	36	--	**
AGRIPRO 27	34.1	2.3	--	--	34	--	**
NORTHROP KING MULTIVAR 80	34.1	2.5	--	--	35	--	**
FFR 444	33.9	3.1	--	--	38	--	**
AMERICANA XR 7C	31.3	2.8	--	--	37	--	**
SRF 425	33.8	2.9	--	--	40	--	**
CUTLER 71	31.6	2.6	--	--	38	--	**
CLARK 63	28.4	3.0	--	--	38	--	**
BONUS	33.1	2.5	--	--	40	--	**
SRF 400	32.6	2.9	--	--	37	--	**
SRF X73-89	34.8	2.6	--	--	36	--	**
N.A.P.B.EX418	36.1	2.8	--	--	39	--	**
CALLAND	33.5	3.0	--	--	36	--	**
WILLIAMS	36.3	2.3	--	--	38	--	**
MITCHELL	36.6	3.0	--	--	38	--	**
SRF 450	36.8	2.6	--	--	38	--	**
POMONA	33.9	2.1	--	--	36	--	**
AVERAGE	34.0	2.7	--	--	38	--	
3-YEAR AVERAGE							
SRF 307P	34.7	3.0	--	--	37	--	**
AMSOY 71	30.8	3.0	--	--	35	--	**
WAYNE	35.7	2.4	--	--	36	--	**
WOODWORTH	37.8	1.8	--	--	32	--	**
SRF 350	37.1	2.4	--	--	36	--	**
AGRIPRO 35	38.2	2.3	--	--	35	--	**
SRF 400	34.3	2.5	--	--	35	--	**
SRF 425	35.6	2.7	--	--	37	--	**
CLARK 63	30.1	2.8	--	--	36	--	**
CALLAND	37.8	2.5	--	--	34	--	**
BONUS	35.1	2.2	--	--	37	--	**
FFR 444	37.0	2.9	--	--	36	--	**
AGRIPRO 27	36.8	2.0	--	--	32	--	**
CUTLER 71	35.4	2.2	--	--	37	--	**
WILLIAMS	40.5	1.8	--	--	35	--	**
MITCHELL	40.2	2.8	--	--	36	--	**
SRF 450	41.4	2.2	--	--	36	--	**
POMONA	39.3	1.8	--	--	34	--	**
AVERAGE	36.6	2.4	--	--	35	--	

\*1 = NO LODGING, 5 = COMPLETE LODGING; 1 = HIGH QUALITY, 5 = POOR QUALITY; 0 = NO SHATTERING, 9 = SEVERE SHATTERING.

\*\*MATURITY DATE NOT AVAILABLE.

TABLE 21. TWO AND THREE-YEAR PERFORMANCE RECORD OF SOYBEAN VARIETIES EVALUATED AT THE AGFONOMY RESEARCH CENTER NEAR COLUMBIA, MO. (BOONE CO.), DURING THE PERIOD 1975-77.

BRAND/VARIETY	ACRE YIELD (BU)	LODGE- ING SCORE* (1_5)	SEED QUALITY SCORE* (1_5)	SHAT- TERING SCORE* (0_9)	PLANT HEIGHT (IN)	HEIGHT FIRST NODE (IN)	MA- TURITY DATE
2-YEAR AVERAGE							
AMSOY 71	27.6	2.8	--	--	34	--	8-22
LFWIS 21	28.2	2.3	--	--	32	--	8-28
WAYNE	27.6	2.3	--	--	33	--	8-31
WOODWORTH	30.6	2.3	--	--	34	--	9-01
SRF 307P	29.0	2.6	--	--	36	--	9-02
AGRIPRO 27	28.3	2.5	--	--	31	--	9-02
CALLAND	28.1	2.8	--	--	33	--	9-03
LEWIS 31	29.3	2.1	--	--	35	--	9-04
AGRIPRO 36	28.3	2.3	--	--	32	--	9-04
AGRIPRO 35	27.4	2.6	--	--	33	--	9-04
LEWIS 41	28.8	2.8	--	--	36	--	9-05
NORTRUP KING MULTIVAR 80	30.3	2.0	--	--	33	--	9-05
SRF 400	24.1	2.8	--	--	33	--	9-06
FFR 444	26.1	2.8	--	--	33	--	9-06
AMERICANA XR 70	28.6	2.5	--	--	34	--	9-07
SRF 350	31.3	2.3	--	--	34	--	9-07
WILLIAMS	32.1	1.8	--	--	33	--	9-07
CUTLER 71	29.4	2.6	--	--	35	--	9-09
BONUS	31.4	2.5	--	--	35	--	9-10
CLARK 63	26.3	2.3	--	--	36	--	9-10
SRF 425	31.6	2.8	--	--	35	--	9-13
N.A.P.B.EX418	34.3	2.8	--	--	37	--	9-14
MITCHELL	35.8	2.5	--	--	37	--	9-15
POMCNA	30.0	1.8	--	--	34	--	9-16
SRF X73-89	30.8	2.1	--	--	34	--	9-17
SRF 450	31.3	2.1	--	--	34	--	9-18
AVERAGE	29.5	2.4	--	--	34	--	
3-YEAR AVERAGE							
AMSOY 71	20.6	2.2	--	--	33	--	8-19
WOODWORTH	25.4	1.8	--	--	32	--	8-29
AGRIPRO 27	22.4	2.0	--	--	29	--	8-29
WAYNE	22.8	1.9	--	--	32	--	8-30
CALLAND	22.8	2.2	--	--	32	--	8-30
SRF 307P	22.6	2.1	--	--	33	--	8-30
AGRIPRO 35	23.4	2.1	--	--	32	--	9-03
WILLIAMS	28.2	1.6	--	--	32	--	9-07
SRF 350	27.5	2.0	--	--	32	--	9-07
CLARK 63	20.4	1.9	--	--	34	--	9-07
FFR 444	20.6	2.2	--	--	32	--	9-07
SRF 400	20.9	2.2	--	--	32	--	9-07
CUTLER 71	25.1	2.2	--	--	34	--	9-08
BONUS	27.2	2.1	--	--	34	--	9-09
SRF 425	29.3	2.2	--	--	34	--	9-15
MITCHELL	32.5	2.2	--	--	35	--	9-17
POMCNA	28.7	1.6	--	--	32	--	9-18
SRF 450	29.0	1.8	--	--	32	--	9-24
AVERAGE	25.0	2.0	--	--	32	--	

\*1 = NO LODGING, 5 = COMPLETE LODGING; 1 = HIGH QUALITY, 5 = POOR QUALITY; 0 = NO SHATTERING, 9 = SEVERE SHATTERING.

\*\*MATURITY DATE NOT AVAILABLE.

TABLE 22. TWO AND THREE-YEAR PERFORMANCE RECORD OF SOYBEAN VARIETIES EVALUATED AT THE D.C. MATHEWS FARM NEAR MEXICO, MO. (AUDRAIN CO.), DURING THE PERIOD 1975-77.

BRAND/VARIETY	ACRE YIELD (BU)	LODGING SCORE* (1_5)	SEED QUALITY SCORE* (1_5)	SHAT- TERING SCORE* (0_9)	PLANT HEIGHT (IN)	HEIGHT FIRST NODE (IN)	MA- TURITY DATE
2-YEAR AVERAGE							
AMSOY 71	32.9	2.8	--	--	38	--	8-27
LEWIS 21	34.5	1.6	--	--	33	--	9-02
WAYNE	31.6	2.6	--	--	39	--	9-03
SRF 307P	33.3	2.3	--	--	38	--	9-04
AGRIPRO 27	34.1	1.8	--	--	35	--	9-05
LEWIS 31	38.4	2.0	--	--	41	--	9-05
WOODWORTH	33.6	2.5	--	--	37	--	9-05
AGRIPRO 36	33.3	1.6	--	--	36	--	9-05
AGRIPRO 35	34.1	1.8	--	--	38	--	9-05
FFR 444	31.8	2.1	--	--	37	--	9-05
SRF 400	30.6	2.0	--	--	38	--	9-06
SRF 350	36.4	2.3	--	--	39	--	9-06
CALLAND	31.9	1.8	--	--	33	--	9-06
LEWIS 41	34.9	2.3	--	--	38	--	9-06
NORTHROP KING MULTIVAR 80	33.4	1.8	--	--	38	--	9-07
WILLIAMS	33.9	2.0	--	--	36	--	9-08
BONUS	34.9	1.8	--	--	41	--	9-09
SRF 425	34.1	2.4	--	--	40	--	9-10
CUTLER 71	32.8	1.8	--	--	38	--	9-11
AMERICANA XR 70	33.8	1.8	--	--	38	--	9-11
CLARK 63	29.8	2.1	--	--	38	--	9-12
N.A.P.B.EX418	34.6	2.5	--	--	40	--	9-15
POMONA	33.1	1.8	--	--	38	--	9-16
SRF X73-89	33.8	1.9	--	--	41	--	9-18
SRF 450	34.1	2.4	--	--	38	--	9-19
AVERAGE	33.6	2.1	--	--	38	--	
3-YEAR AVERAGE							
AMSOY 71	24.8	2.2	--	--	34	--	8-22
CALLAND	23.8	1.6	--	--	30	--	8-31
AGRIPRO 27	25.7	1.5	--	--	31	--	8-31
WOODWORTH	25.4	2.0	--	--	33	--	9-03
WAYNE	28.7	2.1	--	--	34	--	9-04
SRF 307P	28.5	1.9	--	--	34	--	9-05
FFR 444	25.3	1.7	--	--	33	--	9-05
AGRIPRO 35	29.1	1.6	--	--	34	--	9-06
SRF 350	33.9	1.8	--	--	35	--	9-10
SRF 400	26.6	1.7	--	--	34	--	9-10
BONUS	31.0	1.5	--	--	37	--	9-11
CUTLER 71	30.0	1.5	--	--	34	--	9-12
WILLIAMS	33.1	1.7	--	--	33	--	9-13
CLARK 63	24.7	1.9	--	--	35	--	9-15
SRF 425	31.7	1.9	--	--	36	--	9-16
POMONA	32.9	1.5	--	--	35	--	9-24
SRF 450	33.5	1.9	--	--	34	--	9-25
AVERAGE	28.7	1.8	--	--	34	--	

\*1 = NO LODGING, 5 = COMPLETE LODGING; 1 = HIGH QUALITY, 5 = POOR QUALITY; 0 = NO SHATTERING, 9 = SEVERE SHATTERING.

\*\*MATURITY DATE NOT AVAILABLE.

TABLE 23. SUMMARY PERFORMANCE OF SOYBEAN VARIETIES EVALUATED IN HENRY AND LAWRENCE COUNTIES (AREA III) DURING 1977. LOCATIONS WERE NEAR CLINTON AND MT.VERNON.

BRAND/VARIETY	ACRE YIELD (BU)	LODGING SCORE* (1_5)	SEED QUALITY SCORE* (1_5)	SHATTERING SCORE* (0_9)	PLANT HEIGHT (IN)	HEIGHT FIRST NODE (IN)	MA- TURITY DATE
FUNK G-3340	31.9	3.3	--	0.0	35	5	**
WAYNE	30.9	3.5	--	0.0	38	5	**
AGRIPRO 27	29.0	2.0	--	0.0	36	5	**
FERRY-MORSE GOLD TAG 1330	36.3	2.8	--	0.0	44	6	**
PFIZER CX 350	31.8	3.3	--	0.0	38	5	**
PFIZER CB 347	35.9	2.3	--	0.0	39	5	**
PFIZER 9L-75	34.3	2.8	--	0.0	38	5	**
SRF 307P	31.6	4.3	--	0.0	39	6	**
WOODWORTH	32.6	2.8	--	0.0	37	5	**
AGRIPRO 36	30.7	2.3	--	0.0	38	6	**
AGRIPRO 35	33.3	2.3	--	0.0	38	5	**
CALLAND	33.1	3.1	--	0.0	39	6	**
FERRY-MORSE GOLD TAG 1410	33.3	2.0	--	0.0	37	5	**
PFIZER E 414	38.3	2.0	--	0.0	38	6	**
ASGROW XP4136	37.1	2.3	--	0.0	38	5	**
PFIZER CB 390	34.2	2.6	--	0.0	39	5	**
SRF 400	26.5	3.3	--	0.0	39	6	**
SRF 350	36.8	3.3	--	0.0	40	6	**
ASGROW XP4268	39.1	2.3	--	0.0	34	6	**
ASGROW A3860	35.6	1.5	--	0.0	36	5	**
WILLIAMS	39.8	2.5	--	0.0	40	5	**
CLARK 63	30.3	3.6	--	0.0	40	5	**
UNION (ILLINOIS)	37.4	3.1	--	0.0	40	5	**
CUTLER 71	32.9	3.3	--	0.0	41	6	**
PFIZER CB 427	36.0	2.8	--	0.0	42	5	**
SRF 425	36.9	3.0	--	0.0	41	6	**
BONUS	36.9	2.3	--	0.0	43	6	**
MITCHELL	39.8	4.0	--	0.0	40	6	**
PODMONA	40.9	1.5	--	0.0	39	5	**
SRF 450	38.2	1.5	--	0.0	40	6	**
COLUMBUS	37.6	3.1	--	0.0	40	6	**
KANSAS K1017	39.8	3.3	--	0.0	42	6	**
KANSAS K1019	42.5	2.8	--	0.0	43	7	**
N.A.P.B.EX418	37.8	3.3	--	0.0	42	5	**
SCOTT	33.9	2.3	--	0.0	43	6	**
SRF X73-89	36.9	1.5	--	0.0	40	6	**
HILL	27.9	5.3	--	0.0	36	6	**
ESSEX	41.6	2.8	--	0.0	34	6	**
ASGROW XP5312	36.8	2.5	--	0.0	39	5	**
MACK	37.3	4.3	--	0.0	40	6	**
DARE	36.4	3.3	--	0.0	37	5	**
FORREST	36.3	3.1	--	0.0	39	5	**
ASGROW XP5618	36.5	1.8	--	0.0	41	7	**
FFR 557	26.6	3.0	--	0.0	43	8	**
YORK	36.1	3.3	--	0.0	36	5	**
FFR 556	26.8	3.6	--	0.0	48	6	**
AVERAGE	35.1	2.8	--	0.0	39	6	
LSD(.05)**	3.3						

\*1 = NO LODGING, 5 = COMPLETE LODGING; 1 = HIGH QUALITY, 5 = POOR QUALITY; 0 = NO SHATTERING, 9 = SEVERE SHATTERING.

\*\*DIFFERENCES BETWEEN VARIETIES GREATER THAN THE GIVEN LEAST SIGNIFICANT DIFFERENCE (L.S.D.) CAN BE CONSIDERED DUE TO VARIETIES 19 OUT OF 20 TIMES GROWN.

\*\*MATURITY DATE NOT AVAILABLE.

TABLE 24. TWO AND THREE-YEAR PERFORMANCE RECORD OF SOYBEAN VARIETIES EVALUATED AT THE TOM KINYON FARM NEAR CLINTON, MO. (HENRY CO.) AND THE WARREN LEWELLEN FARM NEAR APPLETON CITY, MO. (ST. CLAIR CO.), DURING THE PERIOD 1975-77.

BRAND/VARIETY	ACRE YIELD (BU)	LODGE- ING SCORE* (1_5)	SEED QUALITY SCORE* (1_5)	SHAT- TERING SCORE* (0_9)	PLANT HEIGHT (IN)	HEIGHT FIRST NODE (IN)	MA- TURITY DATE
2-YEAR AVERAGE							
SRF 307P	18.6	2.1	--	--	31	--	**
SRF 400	18.8	1.8	--	--	30	--	**
SRF 350	20.8	2.1	--	--	30	--	**
N. A. P. B. EX418	22.6	2.3	--	--	34	--	**
BONUS	20.8	1.8	--	--	33	--	**
MITCHELL	21.9	2.1	--	--	32	--	**
CLARK 63	19.6	1.5	--	--	30	--	**
SRF 425	24.8	2.1	--	--	32	--	**
SCOTT	24.2	1.8	--	--	32	--	**
WAYNE	19.8	2.1	--	--	31	--	**
POMCNA	24.6	1.0	--	--	30	--	**
CUTLER 71	22.1	1.4	--	--	32	--	**
WOODWORTH	19.8	1.6	--	--	30	--	**
SRF 450	23.5	1.3	--	--	30	--	**
CALLAND	19.9	2.0	--	--	30	--	**
COLUMBUS	22.7	1.3	--	--	31	--	**
WILLIAMS	26.7	1.1	--	--	30	--	**
ESSEX	31.0	1.8	--	--	29	--	**
YORK	29.4	2.3	--	--	34	--	**
HILL	23.1	2.9	--	--	34	--	**
DARE	28.9	2.3	--	--	34	--	**
FORREST	30.3	2.5	--	--	39	--	**
MACK	28.9	3.1	--	--	36	--	**
FFR 556	23.1	2.4	--	--	46	--	**
AVERAGE	23.6	1.9	--	--	32	--	

3-YEAR AVERAGE							
SRF 307P	23.3	1.9	--	--	30	--	**
WAYNE	22.6	1.8	--	--	30	--	**
SRF 350	27.1	1.7	--	--	29	--	**
SRF 400	26.1	1.5	--	--	29	--	**
WOODWORTH	26.6	1.4	--	--	30	--	**
SRF 425	29.7	1.9	--	--	32	--	**
CLARK 63	28.1	1.4	--	--	30	--	**
BONUS	26.8	1.5	--	--	32	--	**
MITCHELL	30.2	2.0	--	--	31	--	**
WILLIAMS	30.6	1.1	--	--	29	--	**
CUTLER 71	27.1	1.3	--	--	31	--	**
POMCNA	32.6	1.0	--	--	30	--	**
CALLAND	26.6	1.7	--	--	30	--	**
SRF 450	32.7	1.2	--	--	30	--	**
SCOTT	31.9	1.7	--	--	32	--	**
COLUMBUS	30.9	1.3	--	--	31	--	**
ESSEX	38.2	1.7	--	--	29	--	**
DARE	37.4	2.4	--	--	34	--	**
YORK	36.4	2.2	--	--	34	--	**
MACK	34.8	3.1	--	--	35	--	**
HILL	30.7	2.9	--	--	34	--	**
FFR 556	34.1	2.3	--	--	46	--	**
AVERAGE	30.2	1.8	--	--	32	--	

\*1 = NO LODGING, 5 = COMPLETE LODGING; 1 = HIGH QUALITY, 5 = POOR QUALITY; 0 = NO SHATTERING, 9 = SEVERE SHATTERING.

\*\*MATURITY DATE NOT AVAILABLE.

TABLE 25. TWO AND THREE-YEAR PERFORMANCE RECORD OF SOYBEAN VARIETIES EVALUATED AT THE SOUTHWEST CENTER NEAR MT.VERNON, MO. (LAWRENCE CO.), DURING THE PERIOD 1975-77.

BRAND/VARIETY	ACRE YIELD (BU)	LODGING SCORE* (1_5)	SEED QUALITY SCORE* (1_5)	SHAT- TERING SCORE* (0_9)	PLANT HEIGHT (IN)	HEIGHT FIRST NODE (IN)	MA- TURITY DATE
2-YEAR AVERAGE							
WOODWORTH	46.5	2.9	--	--	39	--	9-07
WAYNE	39.9	3.9	--	--	40	--	9-07
SRF 307P	42.1	4.5	--	--	41	--	9-08
CALLAND	45.3	3.1	--	--	42	--	9-10
SRF 400	35.9	3.8	--	--	40	--	9-11
SRF 350	46.3	3.6	--	--	42	--	9-11
CLARK 63	39.8	4.0	--	--	41	--	9-13
WILLIAMS	47.6	2.5	--	--	41	--	9-13
SRF 425	45.0	3.3	--	--	44	--	9-16
CUTLER 71	43.4	3.6	--	--	43	--	9-16
BONUS	43.0	2.5	--	--	45	--	9-18
POMONA	44.3	1.5	--	--	42	--	9-20
N. A. P. B. EX418	47.6	3.1	--	--	44	--	9-21
SRF 450	45.8	1.3	--	--	44	--	9-24
SCOTT	39.2	2.1	--	--	46	--	9-25
COLUMBUS	46.4	3.5	--	--	44	--	9-25
HILL	27.9	4.9	--	--	37	--	10-02
ESSEX	44.3	3.0	--	--	37	--	10-06
DARE	36.5	3.6	--	--	41	--	10-07
MACK	35.8	4.1	--	--	43	--	10-07
FORREST	37.5	3.4	--	--	43	--	10-12
YORK	37.9	3.8	--	--	39	--	10-13
FFR 556	32.0	3.0	--	--	54	--	10-14
AVERAGE	41.3	3.3	--	--	42	--	
3-YEAR AVERAGE							
WAYNE	38.8	3.0	--	--	39	--	9-03
WOODWORTH	42.4	2.3	--	--	37	--	9-03
SRF 307P	39.1	3.7	--	--	40	--	9-04
CALLAND	41.4	2.4	--	--	39	--	9-05
SRF 350	43.4	3.0	--	--	40	--	9-06
SRF 400	32.6	2.8	--	--	39	--	9-06
WILLIAMS	43.2	2.0	--	--	39	--	9-09
CLARK 63	36.1	3.2	--	--	40	--	9-10
BONUS	41.3	2.1	--	--	44	--	9-11
CUTLER 71	39.7	3.1	--	--	42	--	9-12
SRF 425	43.2	2.8	--	--	43	--	9-13
POMONA	41.6	1.3	--	--	40	--	9-16
SRF 450	42.9	1.2	--	--	41	--	9-21
SCOTT	38.9	2.0	--	--	45	--	9-24
COLUMBUS	45.7	3.0	--	--	43	--	9-24
HILL	29.4	4.4	--	--	37	--	9-30
ESSEX	45.6	2.8	--	--	36	--	10-05
MACK	38.3	4.0	--	--	42	--	10-06
DARE	35.9	3.4	--	--	41	--	10-07
YORK	38.5	3.4	--	--	40	--	10-11
FFR 556	33.0	2.7	--	--	55	--	10-13
AVERAGE	39.6	2.8	--	--	41	--	

\*1 = NO LODGING, 5 = COMPLETE LODGING; 1 = HIGH QUALITY, 5 = POOR QUALITY; 0 = NO SHATTERING, 9 = SEVERE SHATTERING.

\*\*MATURITY DATE NOT AVAILABLE.

Table 26. Characteristics\* of soybean varieties and blends.

Designation	Variety or Blend	Maturity Group	COLOR				DISEASE REACTION		
			Flower	Pod	Pubescence		Cyst Nematode	Phytophthora	
					Hilum	Root		Rot	
<u>Commercial Varieties or Blends</u>									
Agripro 27	V	3	P	--	TW	BL	S		T
Agripro 35	V	3	P, W	--	TW	BL	S		T
Agripro 36	B	3	P, W	--	TW	BL	S		T
Americana XR70	B	4	W	BR	TW	BL	--		T
Americana XK333	V	3	W	BR	TW	BR	--		T
Americana XK351	V	4	--	BR	G	--	--		S
Americana XK440	V	4	W	--	TW	BF	--		S
Asgrow A3440 Brand	B	3	M	TN	TW	BL	S		T
Asgrow A3585	V	3	P	TN	TW	BL	S		S
Asgrow A3860	--	3	W	TN	TW	BL	S		T
Asgrow XP4136	--	4	P	TN	TW	BL	S		T
Asgrow XP4268	--	4	W	TN	TW	BL	S		T
Asgrow XP5312	--	5	W	--	G	--	S		T
Asgrow XP5618	--	5	--	--	--	--	S		S
Bellatti L263A	V	3	P	BR	BR	BL	--		T
Classic II	V	3	P	BR	BR	BL	--		R
Coker 136	V	6	P	BR	G	BF	S		S
Coker 842 Exp.	V	6	W	TN	G	BF	S		R
Delta	V	4	P	TN	G	BF	--		T
F-M Gold Tag 1310	V	3	W	TN	TW	BL	--		T
F-M Gold Tag 1330	V	3	W	TN	TW	BR	--		T
F-M Gold Tag 1410	V	4	P	TN	TW	BL	--		S
F-M Gold Tag 1420	V	4	W	TN	TW	Y	--		S
F.F.R. 444	V	4	P, W	BR	TW	BL	S		T
F.F.R. 556	V	5	P	TW	G	BF	S		S
F.F.R. 557	V	5	W	TN	TW	BL	S		S
F.F.R. 4202	V	3	W	BR	TW	BL	S		T
Funk G-3340	V	3	W	--	G	BL	--		R
Land O'Lakes LL 4102	V	3	P	BR	TW	BL	S		S
Lewis 21	V	2	P	--	G	--	--		--
Lewis 31	V	3	W	--	TW	--	--		--
Lewis 41	V	4	P	--	G	--	--		--
Lewis 32	V	3	--	--	--	--	--		--
Lewis 42	V	4	--	--	--	--	--		--
Lewis Exp. 7B	V	4	--	--	--	--	--		--
McNair 500	V	5	P	TN	BR	BR	S		T
McNair 600	V	6	P	TN	BR	BL	S		S
Mitchell	V	4	P	TN	TW	BR	S		S
Multivar 80	B	3	W	TN	TW	BL	S		T
Multivar 91	B	4	M	M	TW	BL	S		R
Multivar 100	B	5	M	M	M	M	S		S
N.A.P.B. Lancer	V	6	P	BR	G	IBL	S		T
N.A.P.B. 604	V	6	W	--	G	BF	S		R
N.A.P.B. Ex401	V	4	P	--	TW	BR	S		R
N.A.P.B. Ex418	V	4	P	--	TW	BR	S		R

Table 26. Continued.

	Variety or Blend	Maturity Group	COLOR				DISEASE REACTION	
			Flower	Pod	Pubescence	Hilum	Cyst Nematode	Phytophthora Root Rot
N-K Exp. 30	V	6	W	BR	TW	Y	--	S
N-K Exp. 101644	V	3	P	TN	G	IBL	S	R
Peterson 2120T	B	3	P	BR, TN	TW, G	Y, BL	S	S
Peterson 3125	B	4	P, W	BR, TN	TW	BL	S	T
Pfizer CX 215	V	3	P, W	BR	TW	BL	--	--
Pfizer CX 285	V	3	P	BR	TW	BR	--	--
Pfizer CX 290	V	3	P	BR	G	BR	--	--
Pfizer CX 350	V	3	P	TN	G	BL	--	--
Pfizer 9L-75	B	3	P, W	BR	TW	BL, BF	--	--
Pfizer CB 347	B	3	P, W	BR	TW	BL, BF	--	--
Pfizer CB 390	B	3	P, W	BR	G	BL	--	--
Pfizer CB 427	B	4	P	TW	TW	BL	--	--
Pfizer E 414	V	3	P	TW	G	BL	--	--
Raft	V	4	P	TN	BR	BL	--	T
Richmond	V	4	W	BR	TW	BR	--	S
Ring Around RA(c)36	V	4	P	BR	TW	BL	S	S
Ring Around RA(c)38	V	5	--	TN	BR	BL	T	S
Ring Around RA-501	B	5	P	TN	TW	BL	R	R
Riverside 74-57	V	4	P	BR	G	BR	--	S
S. R. F. 307P	V	3	W	BR	TW	BR	S	R
S. R. F. 350	V	3	W	BR	TW	BL	S	S
S. R. F. 400	V	4	P	BR	TW	BL	S	R
S. R. F. 425	V	4	W	BR	TW	BL	S	T
S. R. F. 450	V	4	P	BR	TW	BL	S	S
S. R. F. X73-89	V	4	P	BR	TW	BL	S	R
S. R. F. 72-3299	V	3	P	BR	G	Y	S	S
S. R. F. 72-3176	V	2	P	TN	G	Y	S	S
Washington IV	V	3	W	BR	G	BF	--	R
<u>Public Varieties</u>								
Amsoy 71	V	2	P	TN	G	Y	--	R
Bonus	V	4	P	BR	G	IBL	--	R
Calland	V	3	P	BR	TW	BL	--	R
Centennial	V	6	P	TN	TW	--	R	R
Clark 63	V	4	P	BR	TW	BL	--	R
Columbus	V	4	P	BR	TW	BL	--	S
Cutler 71	V	4	P	TW	TW	BL	--	R
Dare	V	5	W	BR	G	IBL	--	T
Davis	V	6	W	TN	G	--	S	T
Elf	V	3	P	TN	TW	B	S	--
Essex	V	5	P	TN	G	BF	S	S
Forrest	V	5	W	TN	TW	BR	R	T
Hill	V	5	W	TN	TW	IBL	--	T
Lee 74	V	6	P	TN	TW	--	S	R
Mack	V	5	P	TN	TW	--	R	R
Pickett 71	--	6	P	TN	G	--	R	R
Pomona	V	4	P	BR	TW	BR	--	S
Scott	V	4	P	BR	G	IBL	--	S

Table 26. Continued.

Designation	Variety or Blend	Maturity Group	COLOR				DISEASE REACTION	
			Flower	Pod	Pubescence	Hilum	Cyst Nematode	Phytophthora Root Rot
Tracy	V	6	W	TN	TW	--	S	R
Union	V	4	W	TN	TW	BL	S	--
Wayne	V	3	W	BR	TW	BL	--	S
Williams	V	3	W	TN	TW	BL	--	S
Woodworth	V	3	W	TN	TW	BL	--	S
York	V	5	P	TN	G	BF	--	S

\* The above information, for commercial varieties and blends, was taken from entry forms provided by the company.

## Color Codes

BF - buff	P - purple
BL - black	TN - tan
BR - brown	TW - tawny
G - gray	W - white
IBL - imperfect black	Y - yellow
M - mixed	

## Disease Reaction Codes

R - resistant
T - field tolerant
S - susceptible

Table 27. Name of soybean entries and seed source evaluated in 1977.

Brand	Variety/Blend	Seed Source
Americana	XR70, XK440, XK351, XK333	Americana Seeds, Inc., P.O. Box 275, Bowen, IL 62316
Asgrow	A3440 Brand, A3585, A3860, XP4136, XP4268, XP5312, XP5618	Asgrow Seed Company, P.O. Box 1059, Des Moines, IA 50053
Bellatti	L263A	Louis Bellatti, Route 2, Mt. Pulaski, IL 62548
Coker	136, 842 Exp.	Coker's Pedigreed Seed Co., P.O. Box 340, Hartsville, SC 29550
Ferry-Morse Gold Tag	1310, 1330, 1410, 1420	Ferry-Morse Seed Company, 600 East Exchange Street, Geneseo, IL 61254
FFR	556, 4202, 557, 444	Farmers Forage Research Cooperative, 4112 East State Road 225, West Lafayette, IN 47906 or Route 1, Box 285, Marshall, MO 65340 and Missouri Farmers Assn., Inc., Seed Division, 201 South Seventh, Columbia, MO 65201
Funk	G-3340	Funk Seeds International, 1300 West Washington Street, Bloomington, IL 61701
Land O'Lakes	LL 4102	Land O'Lakes, Inc., Route 2, Webster City, IA 50595
Lewis	21, 31, 41, 32, 42, Exp. 7B	Lewis Seeds, Inc., P.O. Box 36, Ursa, IL 62376
McNair	500, 600	McNair Seed Company, P.O. Box 706, Laurinburg, NC 28352
N. A. P. B. and Agripro	Lancer, N. A. P. B. 604, N. A. P. B. Ex401, N. A. P. B. Ex418, Agripro 27, Agripro 35, Agripro 36	North American Plant Breeders, P.O. Box 1522, West Memphis, AR 72301, or Route 2, Ames, IA 50010
Multivar	80, 91, 100, N-K Exp. 30, N-K Exp. 101644	Northrup, King and Co., P.O. Box 49, Washington, IA 52353
Peterson	2120T, 3125	Peterson Soybean Seed Division, Pioneer Hi-Bred Interna- tional, Inc., 3261 West Airline Highway, Waterloo, IA 50701

Table 27. Continued.

Brand	Variety/Blend	Seed Source
Pfizer	XC 290, CX 215, CX 285, 9L-75, CB 347, CX 350, CB 390, E 414, CB 427	Pfizer Genetics, Inc., P.O. Box 99, Beaman, IA 50609
Ring Around	Mitchell, RA (c)36, RA-501, RA (c)38	Ring Around Products, Inc., P.O. Box 1629, Plainview, TX 79072
Riverside	74-57 Exp.	Lynnville Seed Company, Lynnville, IA 50153
S.R.F.	307P, 350, 400, 425, 450 X73-89, 72-3299, 72-3176	Soybean Research Foundation, Inc., P.O. Box 72, Mason City, IL 62664
	Richmond, Washington IV	Merschman Seed & Fertilizer, Inc., P.O. Box 67, West Point, IA 52656
	Classic II, Delta, Raft	V.R. Seeds, Inc., P.O. Box M, Plymouth, IN 46563
	Amsoy 71, Bonus, Calland, Clark 63, Columbus, Cutler 71, Dare, Essex, Forrest, Hill, Mack, Pomona, Scott, Wayne, Williams, Woodworth, York	Foundation Seed Stock, 136 Mumford, Columbia, MO 65201

