

Missouri Crop Performance

1973

SR 161

Soybeans

R. D. Horrocks
J. O. Ford
F. D. Cloninger
C. E. Kruse
L. G. Heatherly

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THE AUTHORS

R. D. Horrocks is Associate Professor of Agronomy and State Agronomy Specialist, J. D. Ford is Assistant Professor of Agronomy, F. D. Cloninger and C. E. Kruse are Research Specialists in Agronomy and L. G. Heatherly is Graduate Research Assistant in Agronomy.

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1973 MISSOURI SOYBEAN VARIETY TRIALS

INTRODUCTION

The choice of a soybean variety or brand 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 1973 the emphasis of the program was changed and expanded so that the ever increasing number of commercial varieties and blends could be evaluated along with the experiment station lines.^{1/}

TESTING PROCEDURE

Locations. Entries were evaluated at one or more locations within each area (Fig. 1). 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 represents very little row crop production no trials were conducted in this area.

Row Width. The tests in Area I and II were grown in 4-row plots with 15-inch spacings between each row. The two center rows were harvested to obtain acre yields. In Area III, 2-row plots with 30-inch spacings between each row were used. Both rows were harvested to measure acre yield. 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 the 1973 Missouri Soybean Performance Trials. All 1973 entries were submitted voluntarily or by invitation, and no attempt was made to include commercial brands that were not voluntarily entered.

^{1/}Expansion of this program was made possible by financial support from the Missouri Seed Improvement Association.

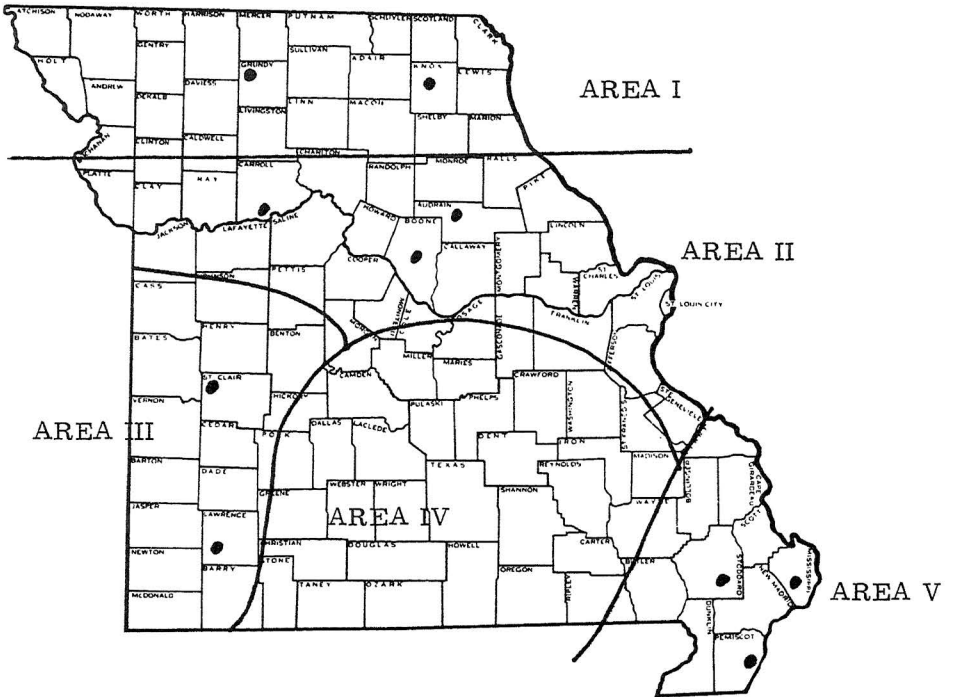


Fig. 1. Testing areas and locations in 1973.

Maturity. A variety was considered mature when approximately 95% of the pods had turned color. Harvesting was usually accomplished as soon after maturity as possible. During 1973 wet weather caused considerable delay in harvest at some locations. However, shattering losses were very minor and were limited to only a few varieties.

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 25 to 50% down;
- 4 = all plants leaning considerably or 50 to 80% down;
- 5 = all plants down.

Height. Height was determined by measuring the average length from the ground to the tip of the stalks at maturity.

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 were given to the samples from the Bootheel (Area V). No quality ratings were made on samples from the other areas. Seed coat color, uniformity of size, brightness, wrinkling, and disease prevalence were all considered in the rating. Seed quality was rated from 1 to 5 according to the following scale:

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

RESULTS

The results of the performance trials are shown in Tables 1 through 10.

TABLE 1. PERFORMANCE OF SOYBEAN VARIETIES EVALUATED IN AREA I OF MISSOURI DURING 1973--AVERAGE OF KNOX AND GRUNDY COUNTY TRIALS.

BRAND-VARIETY	ACRE YIELD (BU)	LODG- ING SCORE* (1-5)	PLANT HEIGHT (IN)	GRAIN MOIS- TURE (%)
MATURITY GROUP 2				
AMSOY 71	38.6	1.6	42	14.8
BEESON	27.9	1.3	36	15.3
N.K. EXP 9447	37.4	1.6	37	14.7
N.K. EXP 9210	36.3	2.0	38	15.0
CHEROKEE	37.9	1.6	39	15.0
SRF 200	38.3	2.1	40	15.1
MATURITY GROUP 3				
AGRIPRO EX 7710	33.7	1.3	38	14.9
PETERSON 2120	39.3	1.5	41	15.2
L. TEWELES XK-5851	37.9	1.6	40	15.3
L. TEWELES 2D312-1	40.0	1.6	41	16.3
CALLAND	40.0	1.4	42	15.3
SEEDMAKERS 1-E	34.1	1.6	44	15.0
WILLIAMS	41.9	1.3	42	14.9
MATURITY GROUP 4				
CLARK 63	34.4	1.8	43	14.8
MITCHELL	46.0	1.7	45	14.8
PETERSON XB-59	37.3	1.5	46	14.8
L. TEWELES 2D313-1	38.6	1.8	43	16.2
PETERSON 125	42.7	1.4	44	15.4
L. TEWELES 2D326-1	43.5	1.9	46	14.4
SL 13	39.0	1.6	50	14.5
AVERAGE	38.3	1.6	42	15.1
LSD(.05)**	8.7			

*LODGING SCORES: 1=NO LODGING; 5=ALL PLANTS LODGED.

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

TABLE 2. PERFORMANCE OF SOYBEAN VARIETIES EVALUATED IN AREA II OF MISSOURI DURING 1973—AVERAGE OF AUDRAIN, BOONE AND CARROLL COUNTY TRIALS.

BRAND-VARIETY	ACRE YIELD (BU)	LODG- ING SCORE* (1-5)	PLANT HEIGHT (IN)	GRAIN MOIS- TURE (%)
MATURITY GROUP 2				
AMSOY 71	30.7	1.2	21	15.1
SRF 200	34.0	1.1	21	15.9
BEESON	28.3	1.2	20	15.8
CHEROKEE	34.3	1.3	21	14.9
MATURITY GROUP 3				
CALLAND	38.8	1.4	25	15.5
WILLIAMS	37.8	1.3	26	15.7
WAYNE	26.7	1.3	22	15.8
SRF 307	34.0	1.3	23	16.1
SRF 307P	36.0	1.4	25	15.8
PETERSON 2120	39.4	1.3	24	15.2
SRF 350	39.0	1.3	25	15.2
SEEDMAKERS 1-E	33.4	1.3	24	15.1
WASHINGTON	28.9	1.5	26	14.8
MATURITY GROUP 4				
SRF 450	31.4	1.3	23	15.0
SL 13	37.5	1.6	29	15.4
OKSOY	41.5	1.4	28	15.4
PETERSON XB-59	34.3	1.3	25	15.5
COLUMBUS	32.4	1.5	28	15.1
BONUS	35.7	1.4	28	16.3
PETERSON 125	38.9	1.3	27	15.9
SRF 400	32.8	1.3	27	15.1
CLARK 63	36.2	1.5	27	14.8
SRF 425	35.8	1.3	27	15.0
CUTLER 71	34.6	1.5	28	15.5
MITCHELL	46.9	1.6	26	15.1
CLUSTER	39.0	1.7	31	15.4
AVERAGE	35.3	1.4	25	15.4
LSD(.05)**	6.3			

*LODGING SCORES: 1=NO LODGING; 5=ALL PLANTS LODGED.

**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.

TABLE 3. PERFORMANCE OF SOYBEAN VARIETIES EVALUATED
IN ST. CLAIR COUNTY MISSOURI DURING 1973.

BRAND-VARIETY	ACRE YIELD (BU)	LODG- ING SCORE* (1-5)	PLANT HEIGHT (IN)	GRAIN MOIS- TURE (%)
MATURITY GROUP 3				
SRF 307	15.6	1.0	19	17.2
WILLIAMS	20.2	1.0	18	16.7
SRF 350	17.9	1.0	21	15.7
SRF 307P	15.1	1.0	20	16.6
CALLAND	18.2	1.0	22	17.6
PETERSON 2120	17.6	1.0	21	15.8
MATURITY GROUP 4				
BONUS	17.6	1.0	22	15.3
OKSOY	23.5	1.0	24	15.0
CUTLER 71	24.0	1.3	11	16.6
SRF 425	18.0	1.0	22	15.9
SRF 450	14.6	1.0	18	14.5
PETERSON 125	23.6	1.0	23	15.6
CLARK 63	17.2	1.0	17	15.8
BELLATTI L-263	25.3	1.0	21	15.0
CCLUMBUS	27.2	1.0	22	15.0
PETERSON XB-59	19.6	1.0	19	15.5
CUSTER	20.1	1.0	21	16.0
MITCHELL	21.0	1.0	23	16.0
MATURITY GROUP 5				
FFR 953318	31.1	1.3	27	20.2
YORK	23.6	1.0	19	16.3
FORREST	30.6	1.3	26	18.0
MACK	23.3	1.3	20	15.8
DARE	26.4	1.0	20	15.4
AVERAGE	22.4	1.1	21	16.9
LSD(.05)**	6.3			

*LODGING SCORES: 1=NO LODGING; 5=ALL PLANTS LODGED.

**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.

Table 4. Performance of soybean varieties evaluated at the Delta Center (Pemiscot Co.) in 1973. Tiptonville silt loam soil.

Brand-Variety	Irrigated					Non-Irrigated				
	Yield (Bu)	Ma-turity Date	Plant Height (in)	Lodging Score (1-5)	Seed Quality** (1-5)	Yield (Bu)	Ma-turity Date	Plant Height (in)	Lodging Score (1-5)	Seed Quality** (1-5)
SRF 350	47.0	9/17	26	2.2	2.0	44.4	9/17	28	1.8	2.0
Clark 63	52.2	9/19	31	2.7	2.5	45.7	9/19	31	2.5	2.3
SRF 400	47.3	9/19	28	2.7	2.5	48.4	9/18	30	2.0	2.3
Bellatti L-263	34.6	9/18	31	2.2	2.5	34.4	9/17	32	2.0	2.5
SRF 425	51.1	9/20	32	3.0	2.5	54.8	9/16	35	2.7	2.3
Williams	51.5	9/18	30	1.7	2.7	55.6	9/19	32	1.8	2.3
Cutler 71	49.7	9/20	29	2.5	2.5	37.7	9/18	31	2.5	2.7
SRF 450	36.9	9/29	29	2.2	2.2	44.0	9/25	28	2.0	2.5
Delmar	36.1	10/1	41	1.8	2.0	43.1	10/3	42	2.3	2.0
Kent	45.0	9/29	30	2.5	2.5	49.8	9/28	28	2.2	2.5
Custer	50.4	9/30	35	3.0	2.5	44.8	9/27	34	3.7	2.5
Mitchell	50.7	9/25	30	2.2	2.2	46.8	9/26	32	2.7	2.5
Hill	50.0	10/4	31	1.7	1.8	47.4	10/4	31	2.2	2.2
Dyer	43.7	10/14	25	2.7	2.2	49.6	10/13	23	3.0	2.2
Mack	56.8	10/13	28	2.5	2.2	50.8	10/14	28	3.2	2.0
Dare	46.8	10/13	28	2.2	1.5	47.6	10/13	30	2.3	1.7
York	46.7	10/18	30	1.7	1.7	48.7	10/19	32	2.0	2.0
Forrest	57.7	10/13	30	2.3	2.0	54.0	10/14	30	2.5	1.7
Essex	53.7	10/14	30	1.8	1.8	51.6	10/10	24	1.7	2.2
Coker 136	54.1	10/16	29	2.2	2.0	52.2	10/16	32	2.7	2.2
Hood	47.4	10/30	35	2.5	2.0	46.6	10/29	26	2.8	2.0
Davis	51.6	11/1	36	2.8	2.2	55.5	11/1	38	2.7	1.8
Lee 68	55.6	10/30	27	3.7	1.8	54.3	10/30	29	3.8	2.0
Pickett 71	55.0	10/31	23	3.8	1.7	55.3	10/31	20	4.0	1.8
McNair 600	58.3	10/29	33	3.7	2.0	59.5	10/30	31	3.3	2.2
Average	49.2	***	30	2.5	2.1	48.9	***	30	2.6	2.2
LSD (.05)	2.8					3.2				

*Lodging score: 1=Almost all plants erect; 5=All plants lodged.

**Seed quality: 1=Very good quality; 5=Very poor quality.

***Varieties differing by more than the LSD value reported may be expected to differ significantly in yield 19 out of 20 times grown.

Table 5. Performance of soybean varieties evaluated at the Delta Center (Pemiscot Co.) on Tiptonville silt loam soil for the three-year period 1971-1973 and the five-year period 1969-1973.

Brand-Variety	Irrigated					Non-Irrigated				
	Yield (Bu)	Ma- turity Date	Plant Height (in)	Lodging Score* (1-5)	Seed Quality** (1-5)	Yield (Bu)	Ma- turity Date	Plant Height (in)	Lodging Score* (1-5)	Seed Quality** (1-5)
3-year period 1971-1973										
Clark 63	47.9	9/16	38	2.9	3.3	42.4	9/16	35	2.1	3.1
Cutler 71	44.1	9/17	36	2.3	3.6	33.2	9/15	35	1.8	2.6
Delmar	35.8	9/29	43	2.4	2.7	36.1	9/29	40	1.9	2.6
Kent	42.7	9/23	37	2.0	3.2	43.7	9/23	34	1.8	2.8
Custer	44.1	9/21	41	3.3	3.2	39.8	9/19	37	2.7	2.8
Hill	40.1	9/29	33	2.6	3.1	41.2	9/29	33	2.3	3.0
Dyer	40.1	10/10	31	3.2	3.7	43.1	10/9	30	2.7	3.2
Mack	46.2	10/11	34	3.9	3.5	45.7	10/11	32	3.2	3.1
Dare	41.2	10/8	33	2.9	2.8	44.5	10/10	32	2.3	2.8
Hood	40.4	10/27	39	2.9	2.7	42.3	10/25	33	2.5	2.4
Davis	44.4	10/29	40	3.3	3.0	46.2	10/29	41	2.7	2.0
Lee 68	45.6	10/28	33	3.4	2.8	47.8	10/28	35	3.0	2.6
Pickett 71	46.7	10/31	32	3.8	2.0	48.1	10/31	29	3.2	2.3
Average	43.0		36	3.0	3.0	42.6		34	2.5	2.7
5-year period 1969-1973										
Clark 63	37.3	9/15	37	2.9	3.4	30.4	9/15	35	2.1	3.5
Delmar	35.5	9/29	44	2.9	2.6	34.2	9/29	40	2.1	3.0
Kent	41.5	9/23	38	2.2	3.3	39.6	9/23	33	1.8	3.3
Custer	43.9	9/22	42	3.7	3.3	38.3	9/14	37	2.9	3.2
Hill	40.6	9/29	33	3.0	2.8	38.5	9/29	30	2.6	3.2
Dyer	42.0	10/7	31	3.6	3.5	42.1	10/7	30	3.3	3.5
Dare	42.0	10/8	34	3.6	2.5	42.2	10/9	32	2.5	2.5
York	45.3	10/14	32	2.3	2.7	44.1	10/12	32	3.1	2.9
Hood	39.8	10/24	39	3.0	2.7	40.5	10/23	36	2.8	2.4
Davis	41.3	10/27	41	2.9	2.4	42.5	10/28	41	2.5	2.2
Lee 68	43.5	10/27	32	3.5	2.9	42.9	10/26	33	3.1	2.7
Average	41.2		37	3.1	2.9	39.6		34	2.6	2.9

*Lodging score: 1=Almost all plants erect; 5=All plants lodged.

**Seed quality: 1=Very good quality; 5=Very poor quality.

Table 6. Performance of soybean varieties evaluated at Pascola (Pemiscot Co.) on Sharkey clay soil in 1973.

Brand-Variety	Irrigated					Non-Irrigated				
	Yield (Bu)	Maturity Date	Plant Height (in)	Lodging Score* (1-5)	Seed Quality** (1-5)	Yield (Bu)	Maturity Date	Plant Height (in)	Lodging Score* (1-5)	Seed Quality** (1-5)
SRF 350	10.7	10/6	15	1.3	2.2	9.6	10/7	18	1.0	2.0
Clark 63	17.2	10/9	17	1.2	2.3	15.4	10/9	19	1.3	2.3
SRF 400	14.9	10/11	19	1.2	2.2	17.3	10/9	20	1.3	2.2
Bellatti L-263	14.8	10/11	20	1.2	2.2	15.0	10/9	19	1.5	2.5
SRF 425	9.9	10/10	18	1.3	2.2	11.1	10/9	17	1.3	2.3
Williams	10.3	10/8	16	1.2	2.2	18.6	10/8	19	1.5	2.2
Cutler 71	13.9	10/11	19	1.3	2.5	14.0	10/10	19	1.7	2.5
SRF 450	--	--	--	--	--	10.1	10/8	16	1.5	2.0
Delmar	22.4	10/12	20	1.3	1.8	18.9	10/17	20	1.7	2.2
Kent	13.4	10/10	20	1.5	2.5	14.9	10/11	17	1.3	1.8
Custer	14.4	10/9	19	1.5	1.8	17.1	10/9	19	1.3	2.3
Mitchell	22.8	10/10	21	1.3	2.0	22.2	10/11	20	1.7	2.0
Hill	25.9	10/16	23	1.7	1.8	29.8	10/18	23	2.7	1.5
Dyer	13.8	10/17	15	1.5	2.2	15.2	10/19	16	1.7	2.3
Mack	27.2	10/17	20	2.2	2.0	28.5	10/19	20	2.2	1.7
Dare	21.5	10/17	19	1.5	1.5	23.4	10/20	19	1.3	1.5
York	20.3	10/19	15	1.2	2.2	25.7	10/23	15	1.3	2.5
Forrest	26.6	10/22	23	1.7	2.5	30.7	10/23	22	1.7	2.0
Essex	22.5	10/17	17	1.2	1.8	26.0	10/20	18	1.5	2.0
Coker 136	16.8	10/22	20	1.2	2.0	26.8	10/22	22	1.2	2.0
Hood	--	--	--	--	--	27.0	10/26	23	1.5	1.8
Davis	32.7	10/26	26	1.5	1.8	31.7	10/27	23	1.3	2.0
Lee 68	27.3	10/29	21	1.8	2.0	31.7	10/29	25	1.5	1.8
Pickett 71	30.0	11/1	19	1.7	2.0	29.7	11/1	21	1.3	2.0
McNair 600	25.5	10/29	22	1.5	1.7	31.4	10/29	24	1.5	2.0
Average	19.8		19	1.4	2.1	21.7		20	1.5	2.1
LSD	2.6***					2.6***				

* Lodging score: 1=Almost all plant erect; 5=All plants lodged.

** Seed quality: 1=Very good quality; 5=Very poor quality.

*** Varieties differing by more than the LSD value reported may be expected to differ significantly in yield 19 out of 20 times grown.

Table 7. Performance of soybean varieties evaluated at Pascola (Pemiscolt Co.) on a Sharkey clay soil for the three-year period 1971-1973 and the five-year period 1969-1973.

Brand-Variety	Irrigated					Non-Irrigated				
	Yield (Bu)	Ma-Date	Plant Height (in)	Lodging Score (1-5)	Seed Quality** (1-5)	Yield (Bu)	Ma-Date	Plant Height (in)	Lodging Score (1-5)	Seed Quality** (1-5)
3-year period 1971-1973										
Clark 63	27.2	9/22	25	1.5	3.5	22.6	9/22	27	1.3	2.7
Cutler 71	25.1	10/4	27	1.4	2.8	30.9	9/24	28	1.6	2.8
Delmar	26.3	10/5	25	1.2	2.4	34.5	10/7	27	1.6	3.7
Custer	20.4	9/22	27	1.5	2.0	19.9	9/22	29	1.4	2.5
Hill	30.7	10/7	25	1.7	2.6	32.0	10/6	28	2.1	2.0
Dyer	22.9	10/11	22	1.7	2.6	23.2	10/12	22	1.7	2.7
Mack	34.9	10/15	29	2.3	2.2	31.5	10/12	28	1.3	3.0
Dare	31.9	10/12	28	1.6	1.8	32.4	10/2	28	1.4	1.8
York	30.9	10/13	34	1.2	3.2	30.9	10/14	22	1.3	2.8
Davis	34.5	10/21	43	1.9	1.8	33.0	10/21	33	1.9	1.9
Lee 68	32.5	10/24	28	2.5	2.0	34.7	10/23	31	2.3	1.9
Pickett 71	35.6	10/25	29	2.6	1.8	31.8	10/25	30	2.4	1.8
Average	29.4		28	1.8	2.4	29.8		28	1.7	2.5
5-year period 1969-1973										
Clark 63	25.6	9/18	27	1.6	3.3	19.5	9/20	27	1.3	3.3
Delmar	22.8	10/3	27	1.5	3.2	20.7	10/4	27	1.6	3.3
Custer	20.6	9/20	28	1.5	2.8	19.6	9/20	29	1.5	3.0
Hill	28.8	10/4	27	1.7	2.6	28.6	10/3	27	1.9	2.6
Dyer	22.6	10/8	22	1.8	3.2	22.1	10/9	23	1.8	3.2
Dare	30.2	10/10	29	1.6	2.0	28.8	10/3	26	1.4	1.9
York	31.4	10/12	25	1.3	3.2	28.3	10/11	23	1.3	2.9
Davis	34.6	10/22	34	1.9	2.4	32.3	10/22	34	1.9	2.2
Lee 68	31.9	10/25	27	2.5	2.7	32.1	10/24	31	2.5	2.3
Average	27.6		27	1.7	2.8	25.8		27	1.7	2.7

*Lodging score: 1=Almost all plants erect; 5=All plants lodged.

**Seed quality: 1=Very good quality; 5=Very poor quality.

Table 8. Performance of soybean varieties evaluated at Dexter (Stoddard Co.) in 1973 on a Calhoun silt loam soil.

Brand-Variety	Irrigated					Non-Irrigated				
	Yield (Bu)	Ma- turity Date	Plant Height (in)	Lodging Score* (1-5)	Seed Quality** (1-5)	Yield (Bu)	Ma- turity Date	Plant Height (in)	Lodging Score* (1-5)	Seed Quality** (1-5)
SRF 350	32.5	9/26	32	3.0	2.2	22.8	9/27	27	2.3	2.7
Clark 63	37.9	10/4	34	3.2	2.2	15.8	10/3	32	1.8	2.3
SRF 400	31.6	9/29	34	3.5	2.0	19.3	9/29	30	1.7	2.7
Bellatti L-263	25.9	10/3	32	2.8	2.5	24.4	9/29	35	1.5	2.7
SRF 425	31.9	9/29	32	2.7	2.7	23.0	9/29	34	2.3	3.0
Williams	39.4	10/2	34	2.0	2.2	30.3	10/1	31	1.7	2.7
Cutler 71	27.4	10/2	32	2.5	2.7	22.1	10/2	29	1.7	2.3
SRF 450	27.6	9/29	26	1.7	2.0	22.8	10/1	28	1.5	2.5
Delmar	25.7	10/3	38	2.3	2.0	20.5	10/4	36	1.8	2.0
Kent	29.2	10/3	28	1.7	2.2	22.4	10/2	28	1.5	2.3
Custer	39.6	10/6	37	2.7	2.8	21.1	10/4	36	2.0	2.8
Mitchell	42.8	10/5	35	2.3	2.0	29.8	10/2	33	1.7	2.2
Hill	33.3	10/13	35	2.8	1.7	30.9	10/10	34	2.3	1.7
Dyer	42.4	10/14	35	2.8	1.8	30.3	10/13	32	1.8	2.0
Mack	43.4	10/16	35	3.5	1.7	40.2	10/14	35	2.3	1.8
Dare	36.9	10/17	35	2.0	1.8	34.6	10/15	33	1.8	1.5
York	39.3	10/17	34	1.2	2.0	34.2	10/19	33	1.2	2.2
Forrest	45.6	10/17	37	2.7	2.0	42.0	10/13	39	2.0	2.0
Essex	41.5	10/14	24	1.7	1.5	37.3	10/13	24	1.3	1.5
Coker 136	34.6	10/16	37	2.6	2.0	31.1	10/14	36	1.8	1.5
Hood	38.5	10/23	38	2.2	2.0	29.1	10/21	38	1.0	1.7
Davis	37.4	10/28	42	1.5	1.7	28.5	10/28	40	1.0	2.0
Lee 68	41.4	10/28	37	2.2	1.8	33.4	10/29	38	1.7	1.5
Pickett 71	48.0	10/30	37	2.3	1.8	36.9	10/29	36	1.7	2.0
McNair 600	29.3	10/28	40	2.2	1.8	26.0	10/28	38	1.8	2.2
Average	36.1		34	2.4	2.0	28.4		33	1.7	2.2
LSD (.05)	2.8***					3.3***				

*Lodging score: 1=Almost all plants erect; 5=All plants lodged.

**Seed quality: 1=Very good quality; 5=Very poor quality.

***Varieties differing by more than the LSD-value reported may be expected to differ significantly in yield 19 out of 20 times grown.

Table 9. Performance of soybean varieties evaluated at Dexter (Stoddard Co.) for the three-year period 1971-1973 and the five-year period 1969-1973. Soil type: Calhoun silt loam.

Brand-Variety	Irrigated					Non-Irrigated				
	Yield (Bu)	Ma- turity Date	Plant Height (in)	Lodging Score (1-5)	Seed Quality** (1-5)	Yield (Bu)	Ma- turity Date	Plant Height (in)	Lodging Score (1-5)	Seed Quality** (1-5)
3-year period 1971-1973										
Clark 63	32.4	9/25	34	3.0	2.2	--	--	--	--	--
Cutler 71	31.9	9/25	34	1.9	2.8	--	--	--	--	--
Delmar	32.4	9/30	40	2.3	2.4	23.6	10/1	35	1.9	2.7
Custer	35.8	9/27	42	3.7	2.9	34.6	9/24	44	2.9	3.1
Hill	33.1	10/4	34	3.3	2.4	37.0	10/4	31	3.0	2.4
Dyer	41.6	10/9	33	3.5	2.5	34.6	10/9	32	3.0	3.0
Mack	43.7	10/12	36	4.8	2.2	39.1	10/11	35	3.1	2.6
Dare	32.3	10/13	33	2.4	2.0	29.9	10/12	34	2.4	2.4
York	32.5	10/13	33	1.8	2.4	33.4	10/14	37	2.4	2.4
Hood	33.1	10/20	33	2.0	1.9	24.8	10/20	33	3.4	2.0
Davis	28.4	10/28	37	2.2	2.1	28.3	10/27	38	2.0	2.3
Lee 68	32.0	10/25	31	2.4	2.3	30.3	10/26	34	2.8	2.0
Pickett 71	38.9	10/28	36	3.6	2.1	36.8	10/28	36	2.7	2.0
Average	34.5		35	2.8	2.3	32.0		35	2.7	2.4
5-year period 1969-1973										
Delmar	34.3	9/30	40	2.4	2.4	24.4	9/30	36	1.7	2.7
Custer	35.7	9/25	40	3.7	3.0	31.6	9/22	39	2.6	2.9
Hill	33.7	10/3	33	2.9	2.4	27.4	10/2	30	2.4	2.5
Dyer	39.9	10/8	31	3.1	2.6	32.5	10/7	30	2.4	2.9
Dare	34.1	10/12	32	2.4	1.9	32.6	10/10	31	2.0	2.1
York	34.6	10/13	34	2.1	2.4	32.7	9/26	34	1.8	2.5
Hood	32.1	10/19	35	2.6	2.1	26.4	10/18	33	1.8	2.3
Davis	27.6	10/26	39	2.6	2.2	26.9	10/24	38	1.9	2.4
Lee 68	29.0	10/25	33	2.9	2.4	27.0	10/25	33	2.5	2.2
Average	33.4		35	2.7	2.4	29.1		34	2.1	2.5

*Lodging score: 1=Almost all plants erect; 5=All plants lodged.

**Seed quality: 1=Very good quality; 5=Very poor quality.

Table 10. Performance of soybean varieties evaluated at Bertrand (Mississippi Co.) during 1971-1973. Soil type: Bertrand sand.

Brand-Variety	1973 Data					3-year period 1971-1973				
	Acre Yield (Bu)	Ma-turity Date	Plant Height (in)	Lodging Score (1-5)	Seed Quality** (1-5)	Acre Yield (Bu)	Ma-turity Date	Plant Height (in)	Lodging Score (1-5)	Seed Quality** (1-5)
SRF 350	31.6	10/2	30	1.3	2.0	--	--	--	--	--
Clark 63	22.1	10/3	37	2.0	2.2	34.8	10/3	35	2.0	2.1
SRF 400	28.5	10/4	31	1.5	2.3	--	--	--	--	--
Bellatti L-263	32.6	10/5	32	2.0	2.5	--	--	--	--	--
SRF 425	33.7	10/5	39	1.5	2.3	--	--	--	--	--
Williams	33.9	10/6	33	1.3	2.2	--	--	--	--	--
Cutler 71	37.9	10/7	39	1.3	2.3	41.5	9/25	37	1.8	2.1
SRF 450	26.1	10/7	28	1.3	2.3	--	--	--	--	--
Delmar	38.1	10/11	39	1.7	1.8	43.4	10/5	41	1.7	2.1
Kent	32.9	10/14	33	1.3	2.7	--	--	--	--	--
Mitchell	39.4	10/10	39	1.7	2.2	--	--	--	--	--
Hill	34.3	10/17	34	2.5	2.2	40.0	10/7	35	2.2	2.1
Dyer	35.2	10/20	29	1.8	2.0	41.6	10/13	31	1.7	2.1
Mack	36.4	10/21	33	2.3	2.0	40.9	10/14	34	2.0	2.1
Dare	38.4	10/22	40	2.5	1.7	42.0	10/13	38	2.4	1.6
York	43.6	10/27	32	1.2	2.0	43.0	10/18	33	1.5	1.8
Forrest	45.7	10/22	37	3.0	2.3	--	--	--	--	--
Essex	43.0	10/21	28	2.2	1.5	--	--	--	--	--
Coker 136	40.7	10/22	38	2.2	1.8	--	--	--	--	--
Hood	41.9	10/25	40	1.5	1.8	--	--	--	--	--
Davis	31.9	10/28	40	2.0	1.8	36.1	10/27	41	2.2	1.8
Lee 68	40.6	10/29	33	1.8	1.7	34.4	10/25	34	2.2	1.8
Pickett 71	42.0	10/30	30	2.2	1.5	43.3	10/29	33	2.4	1.8
McNair 600	55.3	10/29	35	2.0	1.5	--	--	--	--	--
Average	36.9		35	1.8	2.0	40.1		36	2.0	1.9
LSD (.05)	3.2***									

*Lodging score: 1=Almost all plants erect; 5=All plants lodged.

**Seed quality: 1=Very good quality; 5=Very poor quality.

***Varieties differing by more than the LSD value reported may be expected to differ significantly in yield 19 out of 20 times grown.

Table 11. Seed source and name of soybean entries tested in 1973.

Brand-Variety	Seed source
AGRIPRO Ex 7710	AGRIPRO Inc., 103 South 16th Street Ames, Iowa 50010
Bellatti Seedmakers 1-E, L-263	Louis Bellatti RR1 Mt. Pulaski, Illinois 62548
Coker 136	Coker's Pedigreed Seed Co., Box 340 Hartsville, South Carolina 29550
FFR 953318, 955048	Farmers Forage Research Cooperative 4112 East State Rd. 225 West Lafayette, Indiana 47906
McNair 600	McNair Seed Co., P. O. Box 706 Laurinburg, North Carolina 28352
Cherokee, Washington, Mitchell	The Missouri Seed Co., P. O. Box 97 Green Ridge, Missouri 65332
N.K. 9210 Exp, 9447 Exp	Northrup, King and Co. Washington, Iowa 52353
Peterson 2120, 125, PX-59	Peterson Seed Co. 3261 Airline Highway Waterloo, Iowa 50701
SRF 307, 307P, 350, 400, 425, 450, 200	Soybean Research Foundation, Inc. P. O. Box 72 Mason City, Illinois 62664
Teweles 2D326-1, 2D313-1 2D312-1, XK-585	L. Teweles Seed Company Research Central, Route 1 Clinton, Wisconsin 53525
Amsoy 71, Beeson SL13, Calland, Wayne, Williams, Clark 63, Cutler 71, Custer, Bonus, Oksoy, Columbus, Dare, York, Forrest, Mack, Delmar, Kent, Hill, Dyer, Essex, Hood, Davis, Lee 68, Pickett 71	Foundation Seed Stock 136 Mumford Columbia, Missouri 65201