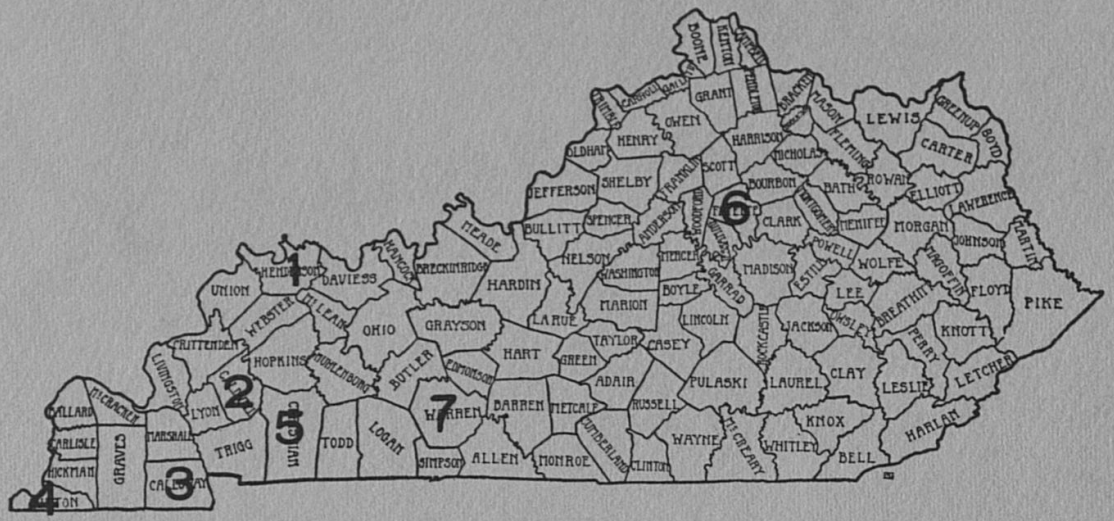
Results of the KENTUCKY SOYBEAN PERFORMANCE TESTS—1968

J. F. SHANE, CHARLES TUTT,
S. H. PHILLIPS, J. W. HERRON,
and STUART BRABANT

PROGRESS REPORT 178

UNIVERSITY OF KENTUCKY
AGRICULTURAL EXPERIMENT STATION
DEPARTMENT OF AGRONOMY
Lexington

LOCATION OF THE 1968
SOYBEAN PERFORMANCE TESTS



ACKNOWLEDGMENT

Acknowledgment is made to the Owensboro Grain Company, Owensboro, and the Ellis Elevator Company and the Henderson Elevator Company, Henderson, for their cooperation in the soybean tests at Henderson; also to area agents and others who assisted in conducting the tests. Special acknowledgment is made to farm cooperators Allan and Joe Toy, Henderson; Bun Hughes, Murray; Robert Sanger, Hickman; Harry Young, Hopkinsville; and W. H. Stroube, Western Ky University, Bowling Green.

Location	Soil Type	pH	Phosphorus	Potassium	Fertilizer Applied	Date Planted	Row Width
1. Henderson	Sharkey silt loam	5.6	Low	Medium	None	May 21	40"
2. Princeton	Crider silt loam	---	---	---	2 T manure	May 22	40"
3. Murray	Hymon silt loam	---	---	---	13-50-50	June 10	38"
4. Hickman	Commerce silt loam	7.5	High	High	None	May 9	38"
5. Hopkinsville	Hagerstown silt loam	---	---	---	None	May 21	20"
6. Lexington	Burgin silt loam	6.1	High	High	0-125-250 2 T Lime	May 3	36"
7. Bowling Green	Pembroke silt loam	5.8	Medium	High	None	May 8	36"

RESULTS OF THE KENTUCKY SOYBEAN PERFORMANCE TESTS - 1968

The objective of the Kentucky Soybean Performance Tests is to provide an estimate of the relative performance of standard soybean varieties and to provide information on the performance of experimental strains of soybeans provided by the U.S. Regional Soybean Laboratory. Included in the testing program are herbicide tests, row-spacing tests and fertilizer tests.

Soybean production in Kentucky for 1968 was estimated at 12,349,000 bushels. Production in 1967 was 10,638,000 bushels and 7,750,000 bushels for 1966. Average yield per acre was 26.5 bushels for 1968, down 1.5 bu from 1967.

EXPERIMENTAL METHODS

Soybean tests were conducted at five locations in the major soybean-producing areas of the state and at Bowling Green and Lexington. The testing locations, soil types, soil test results, pounds of N, P and K applied per acre, date planted and row width are shown on page 2. Varieties and experimental strains tests were planted with each entry in three plots (replications) at all locations with individual plots being 4 rows wide and 19 feet long. The seeding rate was 10 viable seed per foot of row. In the row-spacing test the planting rates were 7, 8, and 10 viable seed per foot of row with rows spaced 20, 30, and 40 inches apart.

In a herbicide test conducted at Henderson the plot size was 4 rows 40 feet long.

The herbicide test at Henderson was planted May 22 and the herbicides were applied with a tractor mounted boom sprayer. Chemicals were applied uniformly by using a constant pressure at 40 psi. All chemicals were applied in water at the rate of 25 gal/A. Treflan was applied as preplant treatment and double disked immediately into the soil.

Yield

A 16-foot section from each of the 2 center rows was harvested for yield. Plants were cut by hand and threshed with a small nursery thresher. The yield of the varieties is reported as bushels per acre at 13.0 percent moisture.

Maturity Date

This is the date when the pods are dry and most of the leaves have dropped. Stems are also dry, under most conditions. Maturity may also be expressed as days earlier (-) or later (+) than a standard variety.

Lodging

Lodging was based on a scale of 1 to 5; 1 = almost all plants erect; 2 = all plants over slightly or a few down; 3 = all plants over moderately or 25%-50% down; 4 = all plants over considerably or 50%-80% down; 5 = all plants down badly.

Seed Quality

Quality was also based on a scale of 1 to 5: 1 = very good; 2 = good; 3 = fair; 4 = poor; 5 = very poor.

Seed Size

Seed size is expressed as the weight in grams of 100 seed.

Purple Seed Stain

The amount of purple stain, a disease caused by the fungus Cecospora kikuchii (T.Matsu and Tomoyaau) Gardner, is expressed as the percentage of seed which was stained. Development of the disease is apparently influenced by weather conditions existing during pod formation.

RESULTS

Variety Trials

Performance data for the variety tests are presented in Tables 1-13. Tables 1, 3, 5, 7, 9 and 11 are periods-of-year summaries for Henderson, Hickman, Murray, Princeton, Hopkinsville and Lexington. Tables 2, 4, 6, 8, 10 and 12 are annual summaries for the same

respective locations. Bowling Green data is presented in Table 13. Shattering is scored 14 days after maturity on the border rows and is based on estimates of the percent of open pods as follows:

1. No shattering
2. 1% to 10% shattered
3. 10% to 25% shattered
4. 25% to 50% shattered
5. Over 50% shattered

Row-spacing and Fertilizer Experiments

Yield data for the row-spacing test at Henderson are presented in Tables 14 and 15. The 30 inch spacings were higher yielding than the 20 inch or 40 inch spacings. Amsoy and Clark 63 were significantly higher yielding than Hood at all spacings.

Yield data for Princeton are presented in Tables 16 and 17. In 1968 Hood was higher yielding than Amsoy or Clark 63. For the 3 year period, 1966-1968, Clark 63 and Hood averages were 39.8 and 40.9 bushels per acre respectively.

In a fertilizer test at Henderson, finely ground lime was applied at a rate of 2½ tons per acre and P_2O_5 and K_2O at the rate of 200 pounds per acre. Yields were: 0-0-0, 43.8 bushels per acre; 0-0-0 + Lime, 45.2 bushels; 0-200-200, 46.7 bushels; 0-200-200+ Lime, 47.5 bushels. No statistically significant differences existed.

Date-of-Planting, Irrigation, and Variety Experiment

This experiment was conducted in 1967 and 1968 at Lexington. Very little moisture stress was observed in either year. In 1967 yields from plantings made April 28 and May 26 were significantly higher than from the June 27 planting. Yields of irrigated plots were significantly higher than non-irrigated plots for the April 28 and June 27 planting. The Wayne variety for the May 26 planting produced higher yields on the non-irrigated plots.

In 1968 the April 17 planting was significantly higher in yield than the later plantings. The May 17 planting was significantly higher yielding than the June 18 planting. Wayne produced higher yields on non-irrigated plots for all dates of planting and Kent produced higher yields on irrigated plots. Data are presented in Tables 18 and 19.

Weed Control Experiment

Data for the weed control ratings for the herbicide test at Henderson are presented in Tables 20 and 21. Ratings are given as the percent control for both grassy and broadleaf type weeds. The test was planted May 22 and ratings taken on June 21, July 15, and at harvest.

An area known to be heavily infested with most weeds, except johnson grass and wild cane, was selected for the test. Most treatments gave satisfactory control of grassy weeds.

Heavy rainfall early in the growing season may have reduced full season control of weeds on some plots.

Beans from plots where good weed control was obtained were much easier to thresh than beans from plots with no treatment or those with poor weed control.

Table 1. Period-of-Years Summary of Soybean Varieties Grown at Henderson, Ky. 1965-1968

Variety	Yield, Bu/Acre 4-yr	3-yr	2-yr	Date Mature	Lodging*	Ht, In.	Seed Quality*	G/100 Seed
Wayne	39.1	44.9	42.9	9/20	2.2	42	2.5	17.3
Clark 63	39.7	42.8	38.5	9/25	1.9	44	2.2	14.8
Custer	--	--	29.3	9/21	2.5	49	1.7	12.8
Kent	41.7	43.6	40.5	9/30	1.5	43	2.2	16.8
Scott	35.0	35.6	29.8	10/5	2.3	46	2.4	14.2
Dare	--	37.2	35.8	--**	2.5	40	1.3	13.9
Dyer	--	--	33.4	--	2.0	33	1.7	14.2
Hill	36.6	36.8	30.1	--	2.7	37	1.6	12.9
Hood	28.8	28.4	28.8	--	2.6	39	1.5	14.7
Ogden	31.6	31.6	32.5	--	2.4	43	2.1	15.7

Agronomic data, other than yield, is for four years except for varieties that have been in the test for a shorter period of time.

* See text for explanation of ratings

** Harvested after killing frost.

Table 2. Annual Summary of Soybean Varieties Grown at Henderson, Ky, 1968

Variety	Yield, Bu/Acre	Date Mature	Lodging*	Ht, In.	Seed Quality*	G/100 Seed
Wayne	40.3	9/18	2.0	47	2.0	15.0
Clark 63	37.3	9/20	1.7	46	2.0	12.8
Custer	31.8	9/21	2.0	49	2.0	12.5
Kent	41.6	9/26	1.3	46	2.0	15.1
Scott	33.7	9/28	1.7	50	2.0	12.6
Dare	38.7	-- **	2.0	39	1.5	14.0
Dyer	36.2	--	2.0	33	2.0	13.9
Hill	32.2	--	2.7	33	2.0	11.3
Hood	32.0	--	1.7	38	1.8	15.0
Ogden	33.6	--	1.0	41	2.3	16.1
Varieties grown in adjacent test - not comparable to varieties listed above						
Clark 63	36.7	9/19	1.3	47	2.0	16.9
Kent	44.5	9/24	2.3	48	2.0	15.9
Cutler	46.2	9/20	1.3	48	1.5	17.0
York	33.2	10/15	1.3	37	1.7	18.6
Delmar	34.5	10/2	2.0	45	2.5	15.4
LSD (.05)	5.1 bu					

* See text for explanation of ratings.

** Harvested after killing frost October 25.

Table 3. Period-of-Years Summary of Soybean Varieties Grown at Princeton,Ky. 1965-1968

Variety	Yield,Bu/Acre 4-yr	3-yr	2-yr	Date Mature	Lodging*	Ht, In.	Seed Quality*	G/100 Seed
Wayne	---	33.6	33.8	9/14	1.3	37	2.9	18.5
Clark 63	30.8	33.7	31.8	9/20	1.2	41	1.7	15.3
Scott	31.7	32.1	29.6	9/29	1.2	42	2.6	14.3
Kent	34.1	36.6	36.4	9/27	1.1	39	2.4	16.5
Dare	---	37.9	36.3	--**	1.3	38	1.1	15.6
Hill	34.7	35.1	32.6	10/14	2.6	37	1.9	14.5
Hood	38.8	40.1	40.0	10/21	2.2	39	1.8	16.9
Lee	---	33.9	34.6	--	3.3	41	2.6	15.6

Agronomic data, other than yield, is for four years except for varieties that have been in the test for a shorter period of time.

* See text for explanation of ratings.

** Harvested after killing frost two years.

Table 4. Annual Summary of Soybean Varieties Grown at Princeton, Ky. 1968

Variety	Yield, Bu/Acre	Date Mature	Lodg-ing*	Ht, In.	Seed Quality*	G/100 Seed
Wayne	30.3	9/6	1.0	33	3.3	15.3
Clark 63	27.3	9/9	1.0	37	2.7	14.0
Custer	33.4	9/15	1.0	47	3.3	13.2
Scott	29.3	9/17	1.0	41	2.7	12.4
Kent	34.3	9/16	1.0	39	2.3	14.8
Dare	36.3	10/10	1.3	38	1.3	13.7
Dyer	28.3	9/29	1.3	35	2.3	13.0
Hill	27.0	9/29	1.0	36	2.7	11.2
Hood	37.7	10/10	1.0	39	2.0	16.5
Lee	37.4	10/22	2.3	40	3.0	12.5
LSD (.05)	5.3 bu.					

* See text for explanation of ratings

Table 5. Period-of-Years Summary of Soybean Varieties Grown at Murray, Ky. 1965-1968

Variety	Yield, Bu/Acre 4-yr	3-yr	2-yr	Lodging*	Ht, In.	Seed Quality*	G/100 Seed
Wayne	34.6	38.2	36.9	2.4	38	2.1	17.7
Clark 63	34.7	39.6	37.9	1.9	42	1.9	16.4
Custer	---	---	33.1	3.2	46	2.4	15.4
Kent	36.6	42.4	41.3	1.7	42	2.1	18.8
Scott	31.9	37.5	38.6	1.9	40	1.9	15.5
Dare	---	38.7	40.0	3.1	38	1.1	15.3
Hill	32.2	34.2	34.2	3.7	34	1.5	14.7
Hood	32.1	34.1	34.1	2.3	36	1.6	16.5
Lee	32.3	33.1	33.1	4.0	36	1.9	14.1
LSD (.05)	5.4 bu						

Agronomic data, other than yield, is for four years except for varieties that have been in the test for a shorter period of time.

* See text for explanation of ratings.

Table 6. Annual Summary of Soybean Varieties Grown at Murray, Ky. 1968

Variety	Yield, Bu/Acre	Date Mature	Lodging*	Ht, In.	Seed Quality*	G/100 Seed
Wayne	40.1	9/12	1.3	37	1.7	16.0
Adelphia	37.8	9/15	1.0	34	1.7	16.2
Clark 63	41.5	9/18	2.0	41	2.0	16.0
Custer	34.7	9/19	3.7	43	2.7	14.3
Scott	40.2	9/23	1.7	41	1.7	14.7
Kent	39.6	9/21	2.3	41	2.3	16.8
Dare	37.6	10/15	2.3	36	1.3	15.0
Dyer	36.9	10/3	2.7	35	3.0	15.1
Hill	27.3	9/30	3.0	35	2.0	12.2
York	39.0	10/15	1.0	37	1.7	18.3
Hood	36.7	10/15	2.7	35	2.3	15.4
Lee	34.7	10/17	2.7	34	2.7	12.4
LSD (.05)	5.4 bu					

* See text for explanation of ratings.

Table 7. Period-of-Years Summary of Soybean Varieties Grown at Hickman, Ky. 1965-1968

Variety	Yield, Bu/Acre 4-yr	3-yr	2-yr	Date Mature	Lodging*	Ht, In.	Seed Quality*	G/100 Seed
Clark 63	34.9	38.3	37.4	9/9	2.3	38	2.4	15.3
Custer	---	---	38.7	9/26	1.5	44	2.1	13.3
Kent	37.5	41.3	42.0	9/25	1.2	37	2.3	16.8
Scott	35.7	38.4	38.0	9/23	1.4	40	2.4	13.8
Dare	---	42.6	43.6	--**	1.8	37	1.5	13.5
Dyer	---	---	39.3	--	1.8	33	1.9	14.4
Hill	35.1	37.6	36.2	9/27	2.2	36	1.7	12.6
Hood	37.9	42.0	41.4	--	1.5	40	1.4	15.2
Ogden	39.2	43.1	43.5	--	1.7	40	2.1	15.8
Lee	33.5	35.8	35.0	--	1.9	39	1.8	13.8
Pickett	---	30.3	28.0	--	1.8	40	2.1	13.8
Davis	---	40.3	40.0	--	2.7	43	2.0	14.7

Agronomic data, other than yield, is for four years except for varieties that have been in the test for a shorter period of time.

* See text for explanation of ratings.

** Harvested after killing frosts.

Table 8. Annual Summary of Soybean Varieties Grown at Hickman, Ky. 1968

Variety	Yield, Bu/Acre	Date Mature	Lodg-ing*	Ht, In.	Seed Quality*	G/100 Seed
Clark 63	32.1	9/10	2.0	40	2.3	13.9
Custer	30.9	9/24	1.3	44	2.2	11.5
Kent	33.7	9/19	1.0	36	2.7	14.5
Scott	30.8	9/18	1.3	41	2.0	11.3
Dare	38.6	--**	1.0	39	2.0	10.3
Dyer	30.9	--	1.3	35	2.0	11.9
Hill	31.3	9/20	1.7	36	2.0	9.4
Hood	38.5	--	1.0	40	2.0	13.4
Ogden	41.9	--	1.3	40	2.7	14.6
Lee	31.6	--	1.0	42	2.5	12.9
Pickett	28.3	--	1.0	43	2.3	12.0
Davis	41.3	--	1.7	44	2.3	14.2
LSD (.05)	6.5 bu					

* See text for explanation of ratings.

** Harvested after killing frost October 25.

Table 9. Two-year Summary of Soybean Varieties Grown at Hopkinsville, Ky. 1967-1968

Variety	Yield, Bu/Acre	Lodging*	Ht, In.	Seed Quality*	Purple Stain, %
Wayne	39.6	1.0	37	2.2	1.0
Shelby	38.1	1.0	36	2.3	4.0
Clark 63	37.9	1.0	38	2.2	1.0
Kent	42.7	1.0	39	2.0	1.5
Scott	40.8	1.0	38	1.8	1.0
Dare	50.5	1.5	38	1.5	0.3
Hill	44.3	1.5	33	1.5	0.3
Hood	52.4	1.5	37	1.5	0.3

* See text for explanation of ratings.

Table 10. Annual Summary of Soybean Varieties Grown Under Different Cultural Practices at Hopkinsville, Ky. 1968

Variety	Yield, Bu/Acre			Height, inches			Shattering, %*		
	Conventional Tillage	Minimum Tillage	Double Cropping	CT	MT	DC	CT	MT	DC
Wayne	33.4	28.3	32.9	29	33	34	5.0	2.3	2.0
Shelby	32.7	28.7	30.4	31	34	36	3.5	2.0	0
Clark 63	30.0	28.1	32.3	31	36	38	0	0	0
Kent	37.3	46.7	41.5	35	39	39	0	0.7	0
Scott	38.4	34.0	44.5	33	39	38	0	2.0	0
Dare	57.6	60.3	49.1	32	36	42	0	0	0
Hill	39.3	41.2	46.1	30	36	42	0	0	0
Hood	53.7	57.8	48.5	35	37	42	0	0	0
LSD (.05)	6.8 bu	10.7 bu	8.0 bu						

* See text for explanation of ratings.

Table 11. Two-Year Summary of Soybean Varieties Grown at Lexington, Ky. 1967-1968

Variety	Yield, Bu/Acre	Date Mature	Lodging*	Ht, In.	Seed Quality*	G/100 Seed
Wayne	41.3	9/25	2.3	45	1.7	17.5
Clark 63	37.1	9/29	2.4	43	2.2	15.0
Custer	31.0	10/3	3.4	45	2.1	14.1
Kent	38.5	10/4	1.3	46	1.9	17.1
Scott	37.8	10/7	1.9	47	1.9	14.4
Dare	33.3	--**	3.0	40	1.8	14.0
Hill	27.5	--	3.8	39	1.9	12.2
Hood	31.0	--	3.4	41	1.7	12.7
Lee	17.0	--	4.0	39	2.3	11.6

* See text for explanation of ratings.

** Harvested after killing frost October 4.

Table 12. Annual Summary of Varieties Grown at Lexington, Ky. 1968

Variety	Yield, Bu/Acre	Date Mature	Lodging*	Ht, In.	Seed Quality*	G/100 Seed
Wayne	40.0	9/14	2.3	45	2.0	16.9
Clark 63	37.0	9/20	2.7	48	2.3	14.8
Custer	32.5	9/24	3.0	47	2.2	12.8
Kent	38.7	9/25	1.3	47	2.0	15.6
Scott	42.0	10/3	1.7	49	2.0	14.2
Dare	43.7	--**	2.0	39	1.5	14.2
Dyer	37.9	--	4.0	36	1.7	14.5
Hill	31.3	--	3.7	38	1.7	12.2
Hood	38.0	--	3.0	38	1.7	13.8
York	42.2	--	3.7	45	2.0	17.5
Lee	18.6	--	4.0	39	2.5	10.5
Varieties from adjacent test - not comparable to varieties listed above						
Clark 63	41.3	9/20	3.0	48	2.0	15.0
Kent	42.4	9/27	1.3	46	2.0	17.1
Cutler	47.4	9/23	1.7	48	2.0	18.9
Adelphia	46.0	9/10	1.3	44	2.0	16.0
LSD (.05)	6.8 bu					

* See text for explanation of ratings.

Table 11. Annual Summary of Soybean Varieties Grown at Bowling Green, Ky. 1968

Variety	Yield Bu/Acre	Date Mature	Lodging*	Ht, In.	Seed Quality*	G/100 Seeds	Shattering*
Shelby	39.2	9/3	1.3	37	2.2	17.0	1.3
Adelphia	38.9	9/5	2.0	37	1.7	16.1	3.3
Wayne	45.3	9/7	1.0	36	2.0	16.8	2.3
Clark 63	37.5	9/10	1.0	40	2.2	14.4	1.0
Kent	40.0	9/16	1.0	38	2.0	15.1	3.0
Scott	30.3	9/19	1.3	44	2.2	11.1	3.0
Custer	32.0	9/20	1.3	46	2.0	13.7	4.0
Hill	29.7	9/23	1.7	35	2.3	9.7	1.0
Dyer	29.8	10/1	1.3	35	2.0	12.1	1.0
York	38.6	10/2	1.0	40	1.7	14.9	1.0
Dare	38.2	10/4	1.3	38	1.7	11.0	1.0
Hood	43.3	10/8	1.7	39	1.5	13.6	1.3
Ogden	34.1	10/14	1.0	44	2.5	15.0	1.3
Davis	31.3	10/17	1.0	45	2.0	12.9	1.0
Pickett	31.1	10/25**	1.3	38	2.5	11.4	1.0
Lee	34.5	10/25**	1.7	35	2.5	11.4	1.0
LSD (.05)	NS						

* See text for explanation of ratings.

** After killing frost October 25.

Table 14. Two-year Summary of Soybean Row-Spacing Test, Henderson, Ky. 1967-1968

Variety	Bushels per Acre			
	20" Rows	30" Rows	40" Rows	Average
Amsoy	49.1	54.2	45.6	49.6
Clark 63	44.3	46.6	40.1	43.6
Hood	27.8	31.9	28.1	29.2
Average	40.4	44.2	37.9	40.8

Table 15. Annual Summary of Soybean Row-Spacing Test, Henderson, Ky. 1968

Variety	Bushels per acre*			
	20" Rows	30" Rows	40" Rows	Average
Amsoy	45.9	50.7	42.9	46.5 a
Clark 63	42.5	47.1	40.1	43.2 a
Hood	30.9	40.5	31.3	34.2 b
Average	39.8 b	46.1 a	38.1 b	41.3

* Yields followed by the same letter are not sifnificantly different for average or spacing.

Table 16. Three-year Summary of Soybean Row-Spacing Test, Princeton, Ky. 1966-1968

Variety	Bushels per acre			Average
	20" Rows	30" Rows	40" Rows	
Amsoy	36.2	36.4	37.2	36.6
Clark 63	40.1	39.8	39.5	39.8
Hood	40.5	41.6	40.6	40.9
Average	38.9	39.2	39.1	39.1

Table 17. Annual Summary of Soybean Row-Spacing Test, Princeton, Ky. 1968

Variety	Bushels per acre*			Average
	20" Rows	30" Rows	40" Rows	
Amsoy	32.2	40.2	34.9	35.8 b
Clark 63	35.9	38.1	36.4	36.8 b
Hood	41.1	44.4	41.8	42.4 a
Average	36.4 b	40.9 a	37.7 b	38.3

* Yields followed by the same letter are not significantly different.

Table 18. Two-year Summary of Date-of-Planting, Irrigation and Variety Experiment, Lexington, Ky. 1967-1968

Date Planted	Kent		Wayne		
	Irrigated	Non-Irrigated	Irrigated	Non-Irrigated	Ave
April 22	56.2	49.7	52.4	52.7	52.8a
May 22	48.9	50.0	47.8	51.0	49.4a
June 22	43.2	37.8	36.8	35.2	38.2b
Average	49.4	45.8	45.6	46.3	---

Table 19. Annual Summary of Date-of-Planting, Irrigation, and Variety Experiment, Lexington, Ky. 1968

Date Planted	Kent		Wayne		
	Irrigated	Non-Irrigated	Irrigated	Non-Irrigated	Ave
April 17	59.2	56.6	53.6	58.5	57.0a
May 17	53.9	51.9	47.9	54.7	52.4b
June 18	50.4	42.7	41.1	43.0	44.3c
Average	54.4	50.3	47.5	52.0	----

Table 20. Period-of-years Summary of Soybean Herbicide Test, Henderson, Ky. 1966-68

Herbicide		Herbicide lb actual per acre	Yield Bu per acre	
Trade Name	Common Name		1966-68	1968
Alanap Plus	naptalam + chlorpropham	3.00 + 2.00	39.1	34.1
Amiben 2E AS	amiben	3.00	36.1	35.1
Lorox	linuron 50W	1.50	37.8	41.4
Treflan 4E-disk, preplant	trifluralin	0.75	30.8	27.4
Vernam 6E - incorporated	vernolate	3.00	35.9	36.0
Ramrod 65W	propachlor	5.00	36.5	27.3
Londax	linuron + propachlor	0.75 + 1.50	39.7*	43.2
Amiben 2E ME	amiben	3.00	--	39.9
Sirmate	dichlormate	6.00	--	33.2
Enide Dinitro EC	diphenamid + DNBP	2.00 + 1.50	--	34.1
No treatment		---	21.0	12.9
LSD (.05)				8.2 bu

* Two year data

Table 21. Annual Summary of Weed Control in the Herbicide Test, Henderson, Ky. 1968

Herbicide	Percent Weed Control - Visual Evaluation				General Weed Control
	June 21		July 15		
	Grass	Broadleaf	Grass	Broadleaf	Sept. 30
Alanap Plus (Alanap + CIPC)	78	70	70	75	28
Amiben 2E AS	100	78	90	73	60
Linuron 50W (Lorox)	93	88	88	83	65
Treflan 4E - disk, preplant	65	63	73	58	43
Vernam 6E - Incorporated	95	80	95	73	73
Ramrod 65W	95	60	85	60	25
Londax (Ramrod-Lorox)	98	80	88	78	48
Amiben 2E ME	95	88	95	75	50
Sirmate	88	83	75	83	48
Enide + DNBP	95	78	83	73	40
No Treatment	0	0	0	0	5
LSD (.05)	20	12	17	10	32

4M--2-69