Mississippi Soybean Variety Trials 1999

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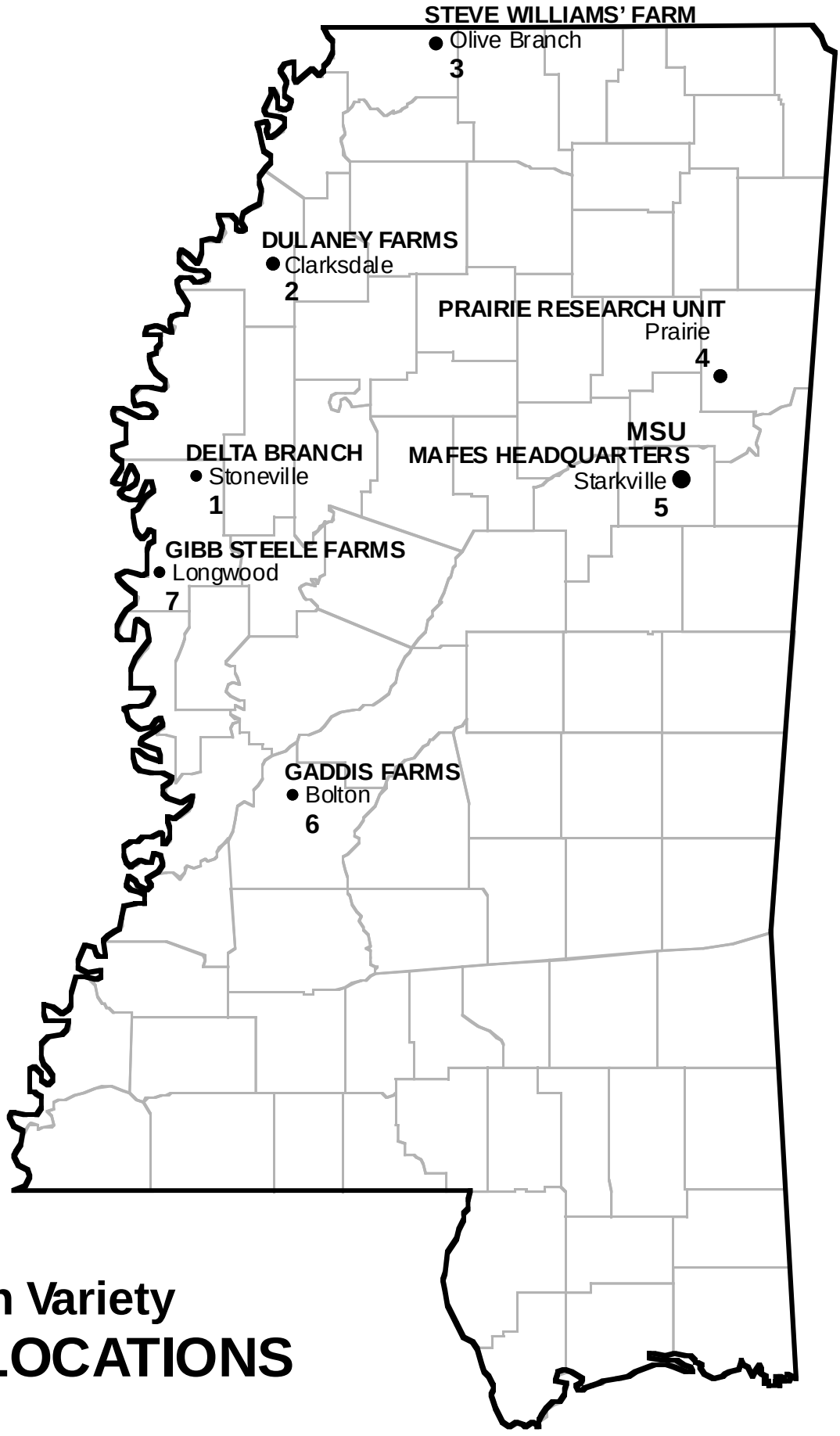

Soybean Variety
TEST LOCATIONS

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Introduction

Procedures

There has been a proliferation of soybean varieties in recent years, and many good varieties are available to Mississippi producers. No single variety is superior, but in some situations, there are varieties that are more specifically adapted than others. Selecting a variety for planting requires knowledge of disease, nematode, and herbicide reactions, as well as the yield performance of each variety on a particular soil type. In many cases, planting the proper varieties will make substantial differences in yield and profitability on a farm. Proper management, including adequate lime, fertilizer, and weed control, is required to produce high yields of any variety, but yields may be limited, even under good management, unless the proper varieties are planted.

Soybean variety trials were conducted at seven locations in 1999 (see map). Commercial seed companies are given the opportunity to enter varieties for testing. Seed of all private entries were supplied by the participating companies. Public varieties were selected by the Technical Advisory Committee for evaluation at each location. The experimental design at each location for each maturity group was a randomized complete block, with three replications of each entry.

Seeding Rate. All seeds were packaged for planting at the rate of nine seeds per foot of row. Plots were planted with a cone planter. Each plot had four rows, which were 30 inches wide and 20 feet long. Ends of plots were trimmed to a uniform length 3 to 4 weeks after emergence.

Cultural Practices. Cultural and pest control practices for optimum yields were followed. Plots were limed and fertilized on the basis of an annual soil test. All seeds were treated with Vitavax/Thiram plus Apron fungicides prior to planting. Only herbicides currently registered for use on soybeans with strict adherence to all label instructions were used in these studies.

Maturity Date. Maturity is considered to be the date when the pods are dry and most of the leaves have dropped. Under most conditions, the stems are also dry.

Yield. An Almaco SPC-20 plot combine was used to harvest two rows of each plot. Bags of harvested seed were allowed to dry at ambient temperature to a uniform moisture content before weighing. Weights were converted to yield in bushels per acre (60 pounds per bushel).

Plant Height. Plants were measured from the soil to the top extremity, at maturity, and plant height was recorded as the average of the height of plants measured.

Lodging. Lodging was rated and recorded on a scale of 1 = almost all plants erect; 2 = all plants leaning slightly or only a few plants down; 3 = all plants leaning moderately or 25 to 50 percent of plants down; 4 = all plants leaning considerably or 50 to 80 percent of plants down; and 5 = all plants down.

Disease and Nematodes. When a disease or nematode problem is correctly identified, the information in Tables 90 to 101 may be used to select varieties that have genetically inherited resistance to the problem. Stem canker ratings shown in this report were determined by Dr. Bob Keeling, retired plant pathologist, and Dr. Gabe Sciumbato, plant pathologist, MAFES.

How to Select Varieties

In Problem or Difficult Fields

(1) Identify fields that have had problems in the past. Problems to consider may include diseases, nematodes, or fields that make planting or harvest difficult because of extremely dry or wet conditions. The Mississippi Cooperative Extension Service offers a disease diagnostic service and nematode analysis free of charge.

(2) Use Tables 90 to 101 to select varieties for fields that need nematode or other pest resistance.

(3) Select varieties using multi-year-averages from all available locations. Identify those varieties that have desired pest resistance along with a high yield potential. Use data from a test site or sites with a soil type similar to that where the soybeans will be grown. Consider planting dates and maturity dates that may allow you to avoid historical field problems.

In Non-Problem Fields

(1) Identify the farm's highest yielding fields that have no specific disease problems.

(2) Select varieties with the best yield potential using multi-year-averages from all available locations. Use data from a test site or sites with a soil type similar to that where the soybeans will be grown.

(3) Try new varieties on a limited number of acres. Don't abandon older consistent performing varieties that are yielding well unless research and experience show an advantage for newer varieties.

Planting Date and Maturity Date

(1) Varieties in Maturity Groups IV, V, and VI are recommended. Earlier maturing varieties should be considered for planting where fall seedbed preparation was done the previous year and in fields that are subject to drought stress during the growing season and/or wet soils during the usual harvest period. Later maturing varieties should be considered for planting in fields that are not as prone to drought stress, where irrigation will be used to alleviate drought stress and for later planting. However, early planting of all acreage is encouraged to reduce risk from drought and obtain higher yields.

(2) Early-season production is a practice that has been quite successful and consistent for several years. Cool, wet soils at planting may justify the use of a seed treatment that has activity against *Pythium*, since no varieties have resistance to infection and resulting damage from this organism. Most Maturity Group IV soybeans have a narrow growth habit. Given their growth habit narrow rows are quite advantageous. Early April to early May planting is recommended for early-season production of Group IV varieties. Irrigation allows later planting of early maturing soybeans; however, the full yield potential may not be realized when planted late. Timely harvest is crucial with early-maturing varieties, because dry weather at maturity may promote shattering. There is a wide range in maturity within Group IV soybeans. Determine if an early Group IV or a late Group IV variety, or some acreage of both, will fit into your operation.

(3) Timely planting is crucial for optimum production of all maturity groups of soybeans. An attempt should be made to complete soybean planting as early as possible. Planting of Group V and Group VI can be made in April. Delays in planting will result in reduced yield potential for almost all varieties in all maturity groups.

Herbicide-Resistant Varieties

(1) Evaluate overall performance characteristics of the variety — including yield potential, disease and nematode resistance, maturity date, lodging, etc. — as with any variety.

(2) Compare these characteristics to other varieties, conventional and herbicide-resistant.

(3) Consider seed premiums, technology fees, and specific weed problems. Determine total cost of conventional and herbicide-resistant-crop weed control programs, and combine this information with factors listed above in choosing a variety.

General Characteristics of Varieties

Soybean varieties differ in significant characteristics that may not affect their performance. Tables 81 to 89 give the general characteristics of most varieties grown in Mississippi.

Pubescence and Hilum Color. Brown (tawny) and gray are the basic pubescence (hair) colors found among varieties. Varying pod-wall colors result in different intensities of mature pod colors. The "eye" of the seed is called a hilum, or point of attachment to the pod, and it differs in color by variety.

Seed Size. There is no relationship between inherited seed size and seed yield. A small- seeded variety may yield as much as or more than a large-seeded variety. The average seed per pound for different varieties is shown in Tables 81 to 89, but this is subject to seasonal variation. Knowing the number of seed per pound is important in determining the amount of seed needed for planting. Fewer pounds are required for small-seeded varieties than for large-seeded varieties. Your county Extension office has a publication (Information Sheet 1194) that

deals with seeding rates and plant populations.

Flowering. Varieties of Group IV maturity generally display an indeterminate growth habit. This means that a large portion of their vegetative growth occurs after the onset of flowering begins. In contrast, varieties of Groups V and VI display a determinate growth habit, where most of the vegetative growth occurs before flowering. The date of first flower will be determined by the time of planting and maturity. For example, a mid-Group IV variety may bloom 3 weeks earlier than a Group V variety, whereas a late Group IV variety may bloom only 1 week earlier than a Group V variety. Soybean flower petals are purple or white. The flower color is controlled strictly by genetics, and only one flower color occurs in a pure variety.

Within the Group IV maturity group trials, the wide variation in maturity dates is attributed to lack of rigid standards for classifying varieties within a group. It was decided to subdivide both the Group IV and Group V trials into two maturity groups. All maturity groups were assigned an early and late-maturity check:

Conventional Test

Maturity Group	Early Check	Late Check
Group IV Early	–	DP3478
Group IV Late	DP3478	P9511
Group V Early	P9511	Hutcheson
Group V Late	Hutcheson	P9594
Group VI	P9594	P9692

Roundup Ready Test

Maturity Group	Early Check	Late Check
Group IV Early	–	AG 4601
Group IV Late	AG4601	P9492
Group V Early	P9492	S59-V6
Group V Late	S59-V6	–

Use of Data Tables and Summary Statistics

The yield potential of a given variety cannot be measured with complete accuracy. Consequently, replicated plots of all varieties are evaluated for yield, and the yield of a given variety is estimated as the mean of all replicated plots of that variety. Yields may vary from one plot to another, which introduces a certain degree of error to the estimation of yield potential. This natural variation is often responsible for yield differences seen among different varieties. Thus, even if the mean yield of two varieties are numerically different, they are not necessarily significantly different in terms of yield potential. In other words, the ability to measure yield is not precise enough to determine whether such small differences are observed purely by chance or because of superior performance.

The least significant difference (LSD) is an estimate of the smallest difference between two varieties that can be declared to be the result of something other than random variation in a particular trial. Consider the following example for a given trial:

Variety	Yield
Abe	40 bu/A
Bill	35 bu/A
Charlie	31 bu/A
LSD	7 bu/A

The difference between variety Abe and variety Bill is 5 bushels per acre (40 - 35 = 5). This difference is **smaller** than the LSD (7 bushels per acre). Consequently, it is concluded that variety Abe and variety Bill have the same yield potential, since the observed difference occurred purely due to chance.

The difference between variety Abe and variety Charlie is 9 bushels per acre (40 - 31 = 9), which is **larger** than the LSD (7 bushels per acre). Therefore, it is concluded that the yield potential of variety Abe is superior to that of variety Charlie, since the difference is larger than would be expected purely by chance.

The coefficient of variation (CV) is a measure of the relative precision of a given trial and is used to compare the relative precision of different trials. The CV is generally considered to be an estimate of the amount of unexplained variation in a given trial. This unexplained variation can be the result of variation between plots, with respect to soil type, fertility, insects, diseases, drought stress, etc. In general, the higher the CV, the less precise a given trial is.

The coefficient of determination (R^2) is another measure of the level of precision in a trial and is also used to compare the relative precision of different trials. The R^2 is a measure of the amount of variation that is explained, or accounted for, in a given trial. For example, an R^2 value of 90 percent indicates that 90 percent of the observed variation in the trial has been accounted for in the trial, with the remaining 10 percent being unaccounted for. The higher the R^2 value, the more precise the trial. The R^2 is generally considered to be a better measure of precision than is the CV, for comparison of different trials.

Table 1. Summary of Yields for Maturity Group IV Early for the 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Clarks-dale	Long-wood	Stoneville Irr.	Stoneville Nonirr.	Delta avg.	Olive Branch	Prairie	MSU	Bolton	Hill avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AP 4880	AgriPro	61.1	51.9	59.4	13.6	46.5	47.7	35.8	28.9	39.7	38.1	42.3
AP 4882	AgriPro	64.5	50.7	71.1	15.8	50.5	51.2	34.0	34.1	43.7	40.7	45.6
A 4604	Asgrow	50.8	47.0	48.7	18.1	41.2	44.1	26.4	24.9	33.9	32.3	36.8
DK4860	Delta King	52.6	46.2	47.6	21.6	42.0	49.8	30.3	31.5	35.6	36.8	39.4
DK XTJ684 (E)	Delta King	59.8	46.4	71.5	15.0	48.2	48.9	31.5	30.7	43.4	38.6	43.4
Delta King 4711	Delta King	62.4	48.5	76.5	17.2	51.2	50.3	34.8	35.1	37.1	39.3	45.2
Delta King 4680	Delta King	61.9	50.2	67.3	11.8	47.8	48.3	29.6	27.7	34.8	35.1	41.4
DP 3478	Deltapine	65.2	50.9	63.3	15.1	48.6	52.3	33.2	28.4	41.8	38.9	43.8
DP 4909	Deltapine	62.1	66.5	67.5	20.6	54.2	45.9	37.2	42.1	35.6	40.2	47.2
Dixie 478	Dixie	69.4	53.1	68.3	14.6	51.3	45.4	33.3	21.3	47.6	36.9	44.1
HBK 4600	Hornbeck	57.4	50.4	53.8	18.3	45.0	47.6	21.4	30.3	35.3	33.7	39.3
SG 468RR	Sure-Grow	59.0	58.9	68.2	13.9	50.0	36.8	33.6	28.8	36.8	34.0	42.0
TV4770	Terral	58.4	53.9	59.9	14.6	46.7	45.6	24.6	29.6	29.1	32.2	39.4
TN 4-86	Public	45.8	49.9	56.7	15.4	42.0	41.2	22.8	25.0	38.8	32.0	37.0
Overall Mean		59.3	51.7	62.9	16.1	47.5	46.8	30.6	29.9	38.1	36.3	41.9
LSD (.10)		5.1	7.1	12.8	3.5	3.9	6.1	5.5	5.0	7.9	3.0	2.4
Error degrees of freedom		26	26	26	26	104	26	26	26	26	104	208
CV (%)		6.2	9.8	14.6	15.7	12.0	9.4	13.0	11.9	14.8	12.3	12.2
R^2(%)		83	75	59	82	95	58	79	76	55	85	94

[1](E) = Experimental.

Table 2. Summary of Yields for Maturity Group IV Late for the 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Clarks-dale	Long-wood	Stoneville Irr.	Stoneville Nonirr.	Delta avg.	Olive Branch	Prairie	MSU	Bolton	Hill avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
A 4922	Asgrow	59.3	58.5	60.2	16.4	48.6	52.2	28.0	35.1	30.9	36.5	42.6
DK 4965RR	Delta King	55.5	59.0	57.0	15.7	46.8	47.1	31.9	37.2	32.8	37.2	42.0
DK 4762RR	Delta King	52.0	46.9	56.5	15.8	42.8	42.2	22.1	33.8	27.4	31.3	37.1
Delta King 4868 RR	Delta King	70.8	63.7	76.7	14.2	56.4	51.1	34.7	37.7	32.0	38.9	47.6
DK XTJ894RR (E)	Delta King	62.0	56.7	69.2	10.8	49.7	45.7	32.4	36.0	30.3	36.1	43.0
DP 3478	Deltapine	61.8	55.5	74.4	13.8	51.4	48.1	34.3	39.9	36.5	39.7	45.5
Progeny 4900	Progeny	50.4	54.1	65.3	16.7	46.6	45.8	28.8	29.8	35.2	34.9	40.8
FFR 495	FFR	63.8	68.7	76.1	12.2	55.2	43.1	28.4	36.7	34.6	35.7	45.5
FFR 514	FFR	59.6	62.5	64.6	16.0	50.7	49.6	29.8	38.9	31.4	37.4	44.0
FFR HT4985	FFR	66.8	58.4	62.2	13.5	50.2	48.6	24.9	34.2	23.3	32.8	41.5
H4994	Hartz	64.0	63.9	74.3	16.3	54.6	46.9	29.9	43.3	36.0	39.0	46.8
HBK 4890	Hornbeck	63.3	63.4	80.0	16.2	55.7	42.4	23.3	38.7	34.7	34.8	45.2
HBK 4891	Hornbeck	65.6	47.6	70.9	16.8	50.2	52.4	36.5	38.6	29.2	39.2	44.7
S51-00	NK	74.1	72.7	76.4	8.3	57.9	47.7	29.8	42.5	25.8	36.4	47.2
9482	Pioneer	60.4	57.0	65.7	11.1	48.6	53.1	28.7	38.9	33.7	38.6	43.6
9511	Pioneer	65.0	70.2	72.9	12.5	55.2	50.3	30.8	45.5	33.8	40.1	47.6
SG498RR	Sure Grow	66.9	62.5	68.8	12.5	52.7	45.9	25.2	33.3	25.8	32.6	42.6
RVS499	Terra	61.4	54.6	63.1	9.8	47.2	28.3	25.4	37.6	30.4	30.4	38.8
TS490	Terra	61.8	59.5	75.3	12.1	52.2	37.7	28.4	39.1	22.5	31.9	42.1
TS4792	Terra	42.6	50.3	55.1	16.2	41.0	36.7	19.5	31.2	33.5	30.2	35.6
TVX4881 (E)	Terral	56.7	52.7	78.6	16.4	51.1	53.4	35.2	37.9	35.5	40.5	45.8
TV4975	Terral	70.2	71.3	70.7	9.6	55.4	36.1	31.9	43.8	34.2	36.5	46.0
USG 7499	USG	49.0	54.8	68.5	10.4	46.7	54.3	28.2	44.9	31.7	39.8	42.7
DT97-4290 (E)	Public	70.5	65.0	73.6	15.3	56.1	37.7	41.0	42.9	39.5	40.3	48.2
DT97-4318 (E)	Public	62.6	66.1	70.4	17.5	54.1	34.6	34.6	48.5	30.9	37.2	45.7
Manokin	Public	67.9	51.8	64.8	18.6	50.8	45.9	27.7	39.4	15.2	32.0	41.4
R95-3235 (E)	Public	63.3	49.9	62.4	19.9	48.9	48.2	18.9	34.0	13.3	28.6	38.7
TN 4-94	Public	56.3	61.8	63.3	10.9	48.1	38.3	23.9	36.7	36.8	33.9	41.0
Overall Mean		61.6	59.2	68.5	14.1	50.8	45.1	29.1	38.4	30.6	35.8	43.3
LSD (.10)		6.2	7.9	5.5	5.4	3.1	7.7	6.9	6.8	9.3	3.8	2.5
Error degrees of freedom		54	54	54	54	216	54	54	54	54	216	432
CV (%)		7.3	9.7	5.9	28.0	9.1	12.5	17.3	12.9	22.3	15.8	11.9
R^2(%)		80	71	82	58	97	73	73	57	58	80	95

[1](E) = Experimental.

Table 3. Summary of Yields for Maturity Group V Early for the 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Clarks-dale	Long-wood	Stoneville Irr.	Stoneville Nonirr.	Delta avg.	Olive Branch	Prairie	MSU	Bolton	Hill avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
APX 9563 (E)	Agripro	58.9	48.1	65.5	10.8	45.8	46.9	32.8	31.7	34.3	36.4	41.1
HY 574	Agripro	69.3	63.0	75.7	5.4	53.4	26.2	34.5	37.2	31.1	32.3	42.8
A 5404	Asgrow	63.8	54.4	67.4	7.5	48.3	47.6	25.7	31.0	33.9	34.5	41.4
A 5547	Asgrow	64.8	64.5	78.5	8.2	54.0	47.2	32.8	41.0	31.7	38.2	46.1
A 5704	Asgrow	70.4	34.4	66.9	10.6	45.6	50.0	27.1	28.3	29.4	33.7	39.6
DK 5664RR	Delta King	55.1	48.2	59.9	4.6	42.0	37.9	20.1	21.8	25.1	26.2	34.1
DK 5263RR	Delta King	51.3	49.4	57.2	4.0	40.5	38.7	28.6	27.6	24.8	29.9	35.2
DK 5850	Delta King	65.3	60.2	64.9	11.3	50.4	47.7	37.6	38.1	35.2	39.7	45.0
DK 5580	Delta King	69.2	56.4	64.9	10.7	50.3	44.1	35.4	40.2	37.5	39.3	44.8
DP 5354	Deltapine	59.2	66.0	74.6	8.1	52.0	45.9	33.9	39.8	20.6	35.1	43.5
Progeny 5400	Progeny	61.4	60.1	72.1	10.0	50.9	47.7	37.8	41.4	36.3	40.8	45.8
Progeny 5120N	Progeny	57.1	59.3	65.5	8.3	47.8	43.2	27.7	31.6	31.4	33.5	40.5
H5050	Hartz	66.3	62.3	73.8	5.1	51.9	34.0	33.4	32.5	25.7	31.4	41.6
HBK 5770	Hornbeck	58.3	60.2	70.3	4.4	48.3	36.4	33.8	39.5	30.9	35.1	41.7
NK X9952 (E)	NK	56.6	54.5	70.5	7.6	47.3	44.5	24.3	30.0	28.2	31.8	39.5
NK X9955R (E)	NK	50.3	51.1	62.0	6.6	42.5	39.2	28.4	34.6	25.2	31.8	37.2
95B33	Pioneer	53.3	55.2	70.5	9.0	47.0	52.0	35.6	23.4	34.4	36.4	41.7
9511	Pioneer	60.5	64.5	72.0	5.8	50.7	43.9	29.3	28.0	27.1	32.1	41.4
TS520	Terra	58.7	45.9	66.3	3.1	43.5	39.1	26.7	27.4	17.9	27.8	35.7
RVS529	Terra	52.6	52.5	60.6	3.4	42.3	27.3	23.2	20.2	24.4	23.8	33.0
RVS549	Terra	61.4	54.9	68.0	8.3	48.2	45.5	33.9	33.0	25.9	34.6	41.4
RVSRobin 5	Terra	70.2	59.7	75.9	10.6	54.1	40.8	36.0	48.3	35.1	40.1	47.1
TV5495	Terral	62.2	59.6	63.9	7.9	48.4	34.5	34.6	34.2	32.7	34.0	41.2
ACCOMAC	Public	55.7	49.3	66.0	6.7	44.4	48.9	31.5	34.1	26.4	35.2	39.8
Delsoy 5500	Public	66.6	64.2	74.7	7.2	53.2	45.3	38.1	33.2	30.4	36.7	45.0
Essex	Public	60.2	41.6	63.0	8.6	43.3	42.7	23.1	22.2	25.1	28.3	35.8
Essex RSV1 (E)	Public	59.9	49.9	67.9	8.6	46.6	41.8	25.2	29.1	33.0	32.3	39.4
Essex RSV4 (E)	Public	58.3	41.8	62.9	9.3	43.1	45.5	24.1	24.3	34.1	32.0	37.5
Hutcheson	Public	67.1	47.8	71.9	8.9	48.9	39.1	30.4	32.1	31.4	33.3	41.1
TN 5-95	Public	45.1	30.0	67.0	7.6	37.4	45.8	29.6	29.8	29.6	33.7	35.6
Overall Mean		60.3	53.6	68.0	7.6	47.4	42.3	30.5	32.2	29.6	33.7	40.5
LSD (.10)		6.7	7.9	5.2	2.9	3.0	7.7	4.8	11.2	7.9	4.1	2.5
Error degrees of freedom		58	58	58	58	232	58	58	58	58	232	464
CV (%)		8.2	10.8	5.6	28.2	9.3	13.3	11.5	25.5	19.6	17.9	13.0
R^2(%)		74	78	75	67	98	64	80	50	58	72	95

[1](E) = Experimental.

Table 4. Summary of Yields for Maturity Group V Late for the 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Clarksdale	Longwood	Stoneville Irr.	Stoneville Nonirr.	Delta avg.	Prairie	MSU	Bolton	Hill avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
A 5843	Asgrow	68.7	55.2	70.8	7.2	50.5	31.9	33.9	27.5	31.1	42.2
A 5944	Asgrow	71.9	61.0	77.9	5.7	54.1	39.1	32.9	32.4	34.8	45.8
A 5959	Asgrow	73.1	64.4	79.0	10.0	56.6	40.0	47.9	31.0	39.6	49.3
Delta Grow 5810	Delta Grow	56.1	57.6	68.5	5.1	46.8	27.7	38.2	22.2	29.4	39.3
DK 5961RR	Delta King	67.2	49.5	64.4	3.7	46.2	29.3	30.5	21.1	26.9	37.9
DK 5995	Delta King	75.8	60.6	79.6	11.5	56.4	38.1	40.7	35.4	38.1	48.5
Delta King 5762 RR (E)	Delta King	64.5	60.4	73.9	12.0	52.7	30.2	35.6	23.7	29.8	40.5
Delta King 5661 RR (E)	Delta King	69.3	49.6	69.3	10.0	49.5	32.8	30.5	21.7	28.3	42.9
DP 3588	Deltapine	66.3	57.1	72.1	7.8	50.8	33.7	44.6	19.5	32.6	43.0
DP 5655	Deltapine	56.1	60.6	73.5	5.0	48.8	36.0	47.8	28.0	37.3	43.9
Progeny 5700	Progeny	58.3	54.1	62.0	3.4	44.5	32.3	36.8	24.2	31.1	38.7
FFR 594	FFR	62.6	54.0	67.8	6.5	47.7	27.7	35.8	20.6	28.0	39.3
FFR 597	FFR	62.5	56.6	69.1	7.7	49.0	38.2	42.1	25.4	35.2	43.1
HLA 572	Hartz	60.8	57.4	67.7	7.4	48.3	38.5	46.8	25.0	36.8	43.4
HBK 5990	Hornbeck	75.1	59.4	69.2	7.4	52.8	41.5	42.9	27.4	37.3	46.1
HBK 5991	Hornbeck	72.7	71.8	76.1	6.6	56.8	37.5	43.0	29.4	36.6	48.2
S59-60	NK	71.8	66.6	74.3	2.7	53.9	35.4	46.2	28.2	36.6	46.5
NK X9855 (E)	NK	60.4	47.9	64.9	10.2	45.9	34.1	36.9	29.5	33.5	40.6
9594	Pioneer	77.3	69.6	76.4	9.8	58.3	38.7	43.7	24.7	35.7	48.6
SG 597RR	Sure Grow	51.8	51.2	67.4	8.1	44.6	30.8	38.3	20.3	29.8	38.3
RVS77	Terra	62.7	53.5	68.9	6.7	48.0	35.3	39.3	26.0	33.5	41.8
TV5893	Terral	68.1	63.7	66.7	5.6	51.0	32.3	49.3	26.5	36.0	44.6
TV5926	Terral	63.7	59.7	64.7	4.4	48.1	35.0	43.5	29.5	36.0	42.9
USG 7539	USG	61.1	46.0	72.7	4.5	46.1	29.2	26.8	22.6	26.2	37.5
Caviness	Public	64.4	55.6	70.4	10.2	50.1	30.0	41.3	29.3	33.5	43.0
Delsoy 5710	Public	60.7	60.8	65.8	6.0	48.3	32.4	36.1	21.1	29.9	40.4
Bolivar	Public	65.6	61.9	76.5	11.7	54.0	36.3	45.1	27.8	36.4	46.4
DT96-6840 (E)	Public	71.3	69.1	80.6	10.0	57.8	42.3	44.1	29.3	38.6	49.5
DT96-16809 (E)	Public	69.5	67.4	79.8	11.7	57.2	34.8	49.5	31.8	38.7	49.2
Hutcheson	Public	66.4	54.6	68.5	7.1	49.2	37.0	25.7	31.2	31.3	41.5
R95-798 (E)	Public	74.4	61.1	70.4	6.4	53.1	38.7	41.2	27.7	35.9	45.7
R95-2210 (E)	Public	67.5	59.4	69.7	11.9	52.1	31.4	38.8	26.7	32.3	43.6
UARK 5798	Public	64.5	65.2	73.1	10.6	53.4	36.1	46.5	28.0	36.9	46.3
UARK 5896	Public	65.7	56.3	67.5	8.2	49.5	36.7	33.2	28.9	32.9	42.4
V91-3036 (E)	Public	70.1	58.6	65.0	7.6	50.4	38.9	39.0	31.2	36.4	44.4
Overall Mean		66.2	58.8	71.0	7.7	50.9	34.9	39.8	26.7	33.8	43.6
LSD (.10)		5.8	4.7	4.2	4.4	2.4	4.8	5.8	7.2	3.4	2.0
Error degrees of freedom		68	68	68	68	272	68	68	68	204	476
CV (%)		6.4	5.9	4.3	42.6	6.9	10.0	10.8	19.7	13.0	9.0
R^2(%)		76	83	80	56	99	72	77	54	82	98

[1](E) = Experimental.

Table 5. Summary of Yields for Maturity Group VI for the 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	MSU	Prairie	Bolton	Average
		bu/A	*bu/A*	*bu/A*	*bu/A*
AG 6101	Asgrow	33.5	30.2	26.5	30.1
AG 6201	Asgrow	38.6	34.9	16.8	30.1
AG 6701	Asgrow	32.7	22.3	13.1	22.7
A6961	Asgrow	42.9	34.9	19.7	32.5
DPX 8S62RR (E)	Deltapine	43.4	32.4	17.8	31.2
FFR 665	FFR	43.1	29.1	23.1	31.8
HBK 6600	Hornbeck	41.6	36.5	17.9	32.0
S62-62	NK	39.7	36.5	25.1	33.8
9594	Pioneer	41.4	37.7	27.7	35.6
9631	Pioneer	51.0	37.6	20.3	36.3
9692	Pioneer	48.5	37.5	19.7	35.2
RVS 678	Terra	48.4	35.9	20.3	34.8
TS608RR	Terra	31.1	24.4	10.1	21.9
Anand	Public	32.4	30.0	22.1	28.2
Dillon	Public	44.5	34.0	21.5	33.3
Musen	Public	41.7	32.6	15.3	29.8
R92-1258 (E)	Public	44.7	37.7	27.3	36.6
SC89-147 (E)	Public	45.1	37.1	17.9	33.4
SC91-2007 (E)	Public	43.3	38.6	17.7	33.2
TN93-142-17 (E)	Public	43.9	38.6	18.0	33.5
Overall Mean		41.6	33.9	19.9	31.8
LSD (.10)		5.1	4.9	7.3	3.3
Error degrees of freedom		38	38	38	114
CV (%)		8.9	10.5	26.8	13.4
R^2(%)		82	75	55	90

[1](E) = Experimental.

Table 6. Summary of Yields for Maturity Group IV Early Roundup Ready for the 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Clarksdale	Longwood	Stoneville Irr.	Stoneville Nonirr.	Delta avg.	MSU	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AP 4602RR	Agripro	41.9	60.0	58.4	21.1	45.3	30.8	42.4
AP 4888RR	Agripro	54.0	55.1	67.0	9.6	46.4	27.8	42.7
AG 4601RR	Asgrow	54.0	58.4	56.0	20.0	47.1	28.2	43.3
AG 4602RR	Asgrow	49.9	49.7	64.5	19.7	45.9	33.6	43.5
AG 4702RR	Asgrow	43.6	60.2	62.6	19.6	46.5	35.4	44.3
AG 4402RR	Asgrow	49.9	44.3	53.2	13.4	40.2	25.8	37.3
DG 4650RR	Delta Grow	38.9	40.7	61.9	11.1	38.2	20.6	34.6
DK 4762RR	Delta King	50.0	55.6	55.9	14.1	44.0	35.1	42.1
DPX 8S47RR (E)	Deltapine	62.3	59.1	66.7	9.6	49.4	32.4	46.0
DP 4690RR	Deltapine	59.0	59.4	69.0	13.6	50.3	29.8	46.2
DP 4750RR	Deltapine	53.2	42.1	63.1	15.1	43.4	32.5	41.2
3463NRR	Dyna-Gro	49.6	57.0	60.8	19.6	46.8	32.8	44.0
Genesis M473RR	Genesis	34.9	36.4	60.6	13.4	36.3	23.8	33.8
H4252RR	Hartz	45.5	45.4	63.5	12.1	41.6	26.3	38.6
HBK R4660RR	Hornbeck	43.2	58.1	59.2	16.6	44.3	33.3	42.1
SG 468RR	Sure Grow	58.0	62.1	66.1	15.2	50.4	28.9	46.1
TS466RR	Terra	45.1	55.8	56.2	16.5	43.4	24.6	39.6
TV4466RR	Terral	45.7	60.0	58.7	11.6	44.0	23.7	39.9
TVX4589RR (E)	Terral	48.9	53.5	55.1	20.6	44.5	26.1	40.8
TVX4787RR (E)	Terral	56.3	54.2	64.8	12.0	46.8	26.6	42.8
SF477RR	Wilfarm	50.6	54.5	59.0	21.1	46.3	28.8	42.8
Overall Mean		49.3	53.4	61.1	15.5	44.8	28.9	41.6
LSD (.10)		8.9	6.0	4.8	3.6	3.0	7.1	2.8
Error degrees of freedom		40	40	40	40	160	40	200
CV (%)		13.2	8.1	5.7	16.8	10.0	17.9	11.1
R^2(%)		63	84	72	78	96	55	96

[1](E) = Experimental.

Table 7. Summary of Yields for Maturity Group IV Late Roundup Ready for the 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Clarksdale	Longwood	Stoneville Irr.	Stoneville Nonirr.	Delta avg.	MSU	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AG 4601RR	Asgrow	53.4	56.9	53.6	17.7	45.4	28.7	42.1
AG 4901RR	Asgrow	48.5	54.5	54.6	13.4	42.8	24.8	39.2
AG 4902RR	Asgrow	52.9	52.4	61.4	13.3	45.0	30.9	42.2
DK 4965RR	Delta King	50.0	64.2	60.6	15.0	47.5	31.4	44.2
Delta King 4868 RR	Delta King	68.0	67.8	71.9	14.2	55.5	33.7	51.3
FFR RT517RR	FFR	57.5	55.7	62.9	19.4	48.9	33.4	45.8
H4998RR	Hartz	53.0	56.7	70.5	7.8	47.0	28.6	43.3
HBK R4855RR	Hornbeck	50.8	46.3	63.4	10.2	42.6	24.0	38.9
S51-T1RR	NK	58.2	70.6	71.0	7.0	51.7	35.0	48.4
94B81RR	Pioneer	45.0	55.9	55.3	13.3	42.4	28.5	39.6
9492RR	Pioneer	52.4	64.9	58.8	17.9	48.5	30.7	44.9
SG 498RR	Sure Grow	71.3	68.5	59.5	11.1	52.6	31.4	48.4
TS4979RR	Terra	52.0	61.7	69.5	5.1	47.1	30.9	43.8
TV4890RR (E)	Terral	45.6	58.9	59.6	16.4	45.1	30.1	42.1
USG 7478nRR	USG	43.9	59.2	54.6	13.7	42.8	26.8	39.6
USG 7489RR	USG	56.1	52.4	63.8	8.4	45.2	31.0	42.4
USG 7499RR	USG	49.0	52.5	59.5	12.9	43.5	27.2	40.2
WF480RR	Wilfarm	50.2	56.0	59.7	15.8	45.4	30.3	42.4
Overall Mean		53.2	57.9	61.7	12.9	46.4	29.8	43.1
LSD (.10)		5.5	11.3	8.7	3.2	3.8	6.1	3.3
Error degrees of freedom		34	34	34	34	136	34	170
CV (%)		7.5	14.2	10.2	17.8	12.2	14.7	12.6
R^2(%)		84	61	62	83	95	46	95

[1](E) = Experimental.

Table 8. Summary of Yields for Maturity Group V Early Roundup Ready for the 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Clarksdale	Longwood	Stoneville Irr.	Stoneville Nonirr.	Delta avg.	MSU	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
APX 9519RR (E)	Agripro	42.4	56.8	64.6	12.1	44.0	43.6	43.9
AP 569RR/N	Agripro	61.8	60.2	62.6	11.2	49.0	41.3	47.4
AG 5001RR	Asgrow	45.4	47.7	67.3	11.1	42.9	27.9	39.9
AG 5401RR	Asgrow	57.7	55.7	68.1	15.5	49.2	35.3	46.4
AG 5602RR	Asgrow	60.1	66.6	72.3	9.3	52.1	34.7	48.6
Delta Grow 5550RR	Delta Grow	53.7	60.1	65.4	16.0	48.8	39.9	47.0
DK 5263RR	Delta King	40.5	49.6	59.8	8.1	39.5	30.0	37.6
DK 5664RR	Delta King	57.1	59.8	59.2	9.1	46.3	25.8	42.2
DP 5644RR	Deltapine	63.9	69.4	67.8	12.8	53.5	38.4	50.5
DG 3541NRR (E)	Dyna-Gro	57.5	57.5	64.3	20.5	50.0	35.4	47.0
FFR RT5485RR	FFR	47.7	48.1	59.6	13.7	42.3	26.0	39.0
FFR RT557RR	FFR	54.3	63.5	70.2	19.2	51.8	40.7	49.6
Genesis M541RR	Genesis	55.5	51.1	65.1	15.4	46.8	38.5	45.1
H5350RR	Hartz	72.4	69.0	66.2	7.6	53.8	38.7	50.8
HX506187RR (E)	Hartz	61.6	71.8	68.1	5.7	51.8	39.4	49.3
HBK R5588RR	Hornbeck	60.5	59.7	66.6	19.7	51.6	36.5	48.6
NK S59-V6RR	NK	73.9	68.1	73.5	12.4	57.0	38.9	53.3
9492RR	Pioneer	42.8	55.3	60.9	15.3	43.6	26.4	40.1
95B41RR	Pioneer	69.2	67.0	69.0	17.4	55.6	36.5	51.8
95B53RR	Pioneer	69.6	77.6	71.6	15.2	58.5	42.0	55.2
TS556RR	Terra	48.1	56.8	67.6	18.6	47.8	37.5	45.7
TS558RR	Terra	59.5	59.1	62.1	13.0	48.4	33.4	45.4
TV5466RR	Terral	55.6	54.6	66.2	18.7	48.8	35.3	46.1
TV5486RR	Terral	62.9	60.2	67.4	11.4	50.5	45.6	49.5
TV5666RR	Terral	58.7	55.9	66.6	18.2	49.8	37.4	47.4
USG 7528RR	USG	58.0	55.1	65.0	17.2	48.8	33.3	45.7
USG 7548nRR	USG	52.4	59.0	65.9	13.6	47.7	36.3	45.4
USG 7547RR	USG	52.6	58.6	62.4	15.9	47.4	41.5	46.2
USG 7557RR	USG	61.1	61.1	64.6	16.0	50.7	34.9	47.5
USG 7509RR	USG	44.6	52.3	56.8	5.8	39.9	19.3	35.8
SF567RR	Wilfarm	54.5	59.8	66.3	10.3	47.7	29.0	44.0
2517NRR	Willcross	54.1	62.1	65.6	11.8	48.4	37.4	46.2
Overall Mean		56.6	59.7	65.6	13.7	48.9	35.5	46.2
LSD (.10)		6.6	6.2	4.0	4.4	2.7	6.1	2.5
Error degrees of freedom		62	62	62	62	248	62	310
CV (%)		8.6	7.6	4.5	23.4	8.1	12.6	8.8
R^2(%)		83	79	73	71	98	73	97

[1](E) = Experimental.

Table 9. Summary of Yields for Maturity Group V Late Roundup Ready for the 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Clarksdale	Longwood	Stoneville Irr.	Stoneville Nonirr.	Delta avg.	MSU	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AP 588RR	Agripro	60.9	63.5	64.2	3.5	48.0	46.9	47.8
AG 5701RR	Asgrow	72.9	68.8	75.5	5.7	55.7	45.1	53.6
AG 5801RR	Asgrow	63.2	64.9	71.1	4.7	51.0	39.0	48.6
AG 5802RR	Asgrow	61.4	63.0	67.6	2.8	48.7	37.2	46.4
AG 5901RR	Asgrow	56.6	60.3	65.6	2.2	46.2	40.1	45.0
CX550RR	DEKALB	50.9	51.7	65.9	5.3	43.4	40.4	42.8
CX556CRR	DEKALB	59.2	54.6	64.6	8.7	46.8	39.3	45.3
CX580CRR	DEKALB	69.1	63.4	69.9	5.0	51.9	37.4	49.0
Delta Grow 5950RR	Delta Grow	72.9	66.4	71.6	4.9	54.0	40.4	51.2
DK5961RR	Delta King	66.4	55.0	65.8	2.1	47.3	36.5	45.2
Delta King 5661 RR	Delta King	68.7	61.5	72.4	6.2	52.2	44.7	48.2
Delta King 5762 RR	Delta King	71.2	65.6	71.0	5.5	53.3	27.6	50.7
DPX 5718RR (E)	Deltapine	73.1	67.8	72.0	6.6	54.9	47.3	53.4
DPX 5915RR (E)	Deltapine	62.8	67.3	71.0	7.0	52.0	53.9	52.4
DP 5806RR	Deltapine	67.0	65.6	64.3	5.9	50.7	46.4	49.8
DP 5960RR	Deltapine	65.8	64.8	59.9	3.4	48.5	46.1	48.0
FFR RT587RR	FFR	59.0	52.5	64.9	6.2	45.7	37.2	44.0
H5999RR	Hartz	54.6	61.8	72.3	3.4	48.0	45.7	47.6
HX 5060167RR (E)	Hartz	45.8	53.4	66.5	1.9	41.9	38.2	41.2
HBK R5884RR	Hornbeck	53.0	54.8	65.0	2.9	43.9	35.4	42.2
HBK R5920RR	Hornbeck	68.5	65.7	70.8	4.1	52.3	44.4	50.7
HBK XR6020RR (E)	Hornbeck	67.0	69.7	74.7	6.7	54.5	45.1	52.6
NK S59-V6RR	NK	74.6	69.2	70.7	3.7	54.6	38.1	51.3
NK X9857RR (E)	NK	53.3	56.2	61.2	2.9	43.4	37.7	42.3
96B01RR	Pioneer	63.4	61.8	54.1	4.5	45.9	41.4	45.0
SG 597RR	Sure Grow	47.9	54.4	67.0	5.5	43.7	46.7	44.3
TS5879RR	Terra	52.6	55.9	66.8	2.5	44.5	37.4	43.0
USG 7577RR	USG	54.2	58.4	59.7	8.2	45.1	43.1	44.7
USG 7599nRR (E)	USG	69.4	65.5	69.7	5.3	52.5	43.0	50.6
WF590RR	Wilfarm	74.2	68.4	70.4	5.4	54.6	40.1	51.7
7589RR (E)	Willcross	56.4	56.2	64.1	7.5	46.1	43.5	45.5
Overall Mean		62.5	61.5	67.4	4.9	49.1	41.5	47.5
LSD (.10)		6.1	5.0	4.0	2.3	2.3	9.1	2.6
Error degrees of freedom		60	60	60	60	240	60	300
CV (%)		7.2	6.0	4.3	35.3	6.8	16.2	8.9
R^2(%)		85	78	81	64	99	46	98

[1](E) = Experimental.

Table 10. Summary of 2-Year Yields for Maturity Group IV Early for the 1998 and 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Clarksdale	Stoneville[2] Irr.	Stoneville[2] Nonirr.	Delta avg.	Olive Branch	Prairie	MSU	Hill avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AP 4880	Agripro	62.6	63.0	19.2	48.3	51.3	32.9	39.4	41.2	44.7
A4604	Asgrow	53.5	56.7	20.3	43.5	47.1	26.7	34.9	36.2	39.8
DP 3478	Deltapine	66.6	65.4	20.3	50.8	58.2	31.5	39.9	43.2	47.0
Dixie 478	Dixie	66.6	67.2	16.2	50.0	52.9	31.7	33.6	39.4	44.7
HBK 4600	Hornbeck	59.2	58.6	21.9	46.5	49.0	24.3	39.5	37.6	42.1
TV 4770	Terral	58.9	59.3	17.7	45.3	47.7	26.5	34.8	36.3	40.8
TN 4-86	Public	47.1	51.8	20.2	39.7	43.6	26.5	28.3	32.8	36.3
Overall Mean		59.2	60.3	19.4	46.3	50.0	28.6	35.8	38.1	42.2
LSD (.10)		3.1	9.0	3.0	3.2	4.4	5.3	4.2	2.6	2.1
Error degrees of freedom		24	24	24	72	24	24	24	72	144
CV (%)		5.3	15.1	15.5	12.6	8.9	18.9	12.0	12.4	12.6
R^2(%)		90	50	82	95	88	81	91	93	95

[1]All are released varieties.
[2]1997 and 1999 averages.

Table 11. Summary of 2-Year Yields for Maturity Group IV Late for the 1998 and 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Clarksdale	Stoneville[2] Irr.	Stoneville[2] Nonirr.	Delta avg.	Olive Branch	Prairie	MSU	Hill avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
A4922	Asgrow	59.9	60.7	18.2	46.3	54.1	25.4	38.3	39.3	42.8
DP 3478	Deltapine	61.8	68.2	15.9	48.6	52.6	32.4	42.1	42.4	45.5
FFR 495	FFR Seed	64.5	71.2	14.9	50.2	51.1	30.0	43.8	41.6	45.9
HBK 4890	Hornbeck	60.9	77.8	15.9	51.5	46.8	25.5	38.6	36.9	44.2
9482	Pioneer	64.0	68.7	18.2	50.3	54.3	31.1	44.9	43.4	46.9
9511	Pioneer	66.9	68.3	14.8	50.0	48.6	35.6	50.2	44.8	47.4
TS490	Terra	61.5	68.1	12.6	47.4	42.1	30.6	44.3	39.0	43.2
TS4792	Terra	44.8	52.7	19.2	38.9	39.8	24.9	32.3	32.4	35.6
TV4975	Terral	65.9	67.7	12.7	48.7	44.9	37.8	46.1	42.9	45.8
Manokin	Public	61.9	55.2	19.3	45.5	42.5	26.9	40.2	36.5	41.0
TN4-94	Public	57.8	59.1	14.1	43.7	46.3	26.2	40.0	37.5	40.6
Overall Mean		60.9	65.2	16.0	47.4	47.5	29.7	41.9	39.7	43.5
LSD (.10)		4.7	3.7	3.2	2.2	6.4	5.4	3.3	3.0	1.8
Error degrees of freedom		40	40	40	120	40	40	40	120	240
CV (%)		7.9	5.9	20.3	8.5	14.0	18.7	8.1	13.5	10.9
R^2(%)		75	89	73	98	75	78	84	87	96

[1]All are released varieties.
[2]1997 and 1999 averages.

Table 12. Summary of 2-Year Yields for Maturity Group V Early for the 1998 and 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Clarksdale	Stoneville[2] Irr.	Stoneville[2] Nonirr.	Delta avg.	Olive Branch	Prairie	MSU	Hill avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
HY 574	Agripro	66.3	64.0	7.4	45.9	38.9	37.1	42.3	39.4	42.7
A5547	Asgrow	69.5	69.7	9.2	49.5	51.0	30.6	41.2	40.9	45.2
A5704	Asgrow	68.7	62.3	12.4	47.8	48.1	24.5	33.1	35.2	41.5
DK 5850	Delta King	65.4	64.8	11.4	47.2	50.8	36.2	39.5	42.2	44.7
DP 5354	Deltapine	66.5	67.8	10.1	48.1	49.1	34.4	41.6	41.7	44.9
H5050	Hartz	64.9	64.1	7.0	45.3	38.9	35.1	37.5	37.2	41.2
HBK 5770	Hornbeck	60.3	56.0	6.6	40.9	36.4	39.8	51.7	42.6	41.8
9511	Pioneer	64.1	68.0	10.7	47.6	46.3	34.5	37.0	39.3	43.4
95B33	Pioneer	62.9	72.5	11.1	48.9	56.4	35.7	35.2	42.4	45.6
RVS529	Terra	54.5	52.9	5.7	37.7	35.8	26.5	30.1	30.8	34.3
RVS549	Terra	62.9	58.1	8.4	43.1	47.4	31.1	36.0	38.2	40.6
RVS Robin 5	Terra	70.5	65.3	10.3	48.7	41.3	35.5	45.2	40.7	44.7
TS520	Terra	64.5	58.0	3.4	42.0	36.0	30.3	33.4	33.2	37.6
TV5495	Terral	61.6	56.6	9.5	42.6	43.7	36.0	39.6	39.8	41.2
Delsoy 5500	Public	70.0	68.0	7.9	48.6	43.3	33.9	35.1	37.4	43.0
Essex	Public	65.2	59.8	8.8	44.6	41.0	22.2	27.9	30.4	37.5
Essex RSV1 (E)	Public	67.4	60.2	9.2	45.6	42.6	25.2	31.1	33.0	39.3
Hutcheson	Public	71.8	60.8	10.9	47.8	44.0	31.0	36.9	37.3	42.6
TN 5-95	Public	53.7	60.3	8.5	40.9	41.6	31.4	34.4	35.8	38.3
Overall Mean		64.8	62.6	8.9	45.4	43.8	32.2	37.3	37.8	41.6
LSD (.10)		3.7	3.7	2.0	1.8	6.7	4.5	6.3	3.4	1.9
Error degrees of freedom		72	72	72	216	72	72	72	216	432
CV (%)		5.9	6.1	23.0	7.4	15.9	14.4	17.5	16.2	11.9
R^2(%)		83	91	76	99	72	80	73	79	96

[1](E) = Experimental.
[2]1997 and 1999 averages.

Table 13. Summary of 2-Year Yields for Maturity Group V Late for the 1998 and 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Clarksdale	Stoneville[2] Irr.	Stoneville[2] Nonirr.	Delta avg.	Prairie	MSU	Hill avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
A5843	Asgrow	69.2	64.8	9.2	47.7	32.3	36.2	34.2	42.3
A5944	Asgrow	75.8	68.4	8.0	50.7	36.4	37.0	36.7	45.1
A5959	Asgrow	77.6	66.0	10.3	51.3	39.5	46.1	42.8	47.9
DK 5995	Delta King	79.5	74.9	10.5	54.9	36.7	43.2	39.9	48.9
DP 3588	Deltapine	65.4	63.5	8.8	45.9	36.7	43.8	40.3	43.7
FFR 597	FFR	64.5	60.7	8.6	44.6	37.4	40.3	38.8	42.3
HBK 5990	Hornbeck	72.9	61.9	9.0	48.0	35.7	42.7	39.2	44.5
S59-60	NK	73.5	68.4	6.5	49.5	34.8	45.7	40.3	45.8
9594	Pioneer	76.1	69.6	10.6	52.1	38.8	44.6	41.7	48.0
RVS77	Terra	66.7	56.3	7.6	43.5	34.4	46.2	42.3	42.2
TV5893	Terral	67.6	61.0	7.1	45.2	37.7	49.0	43.3	44.5
TV5926	Terral	68.0	57.5	7.1	44.2	32.8	39.8	36.3	41.0
Bolivar	Public	66.7	71.6	12.7	50.3	38.9	46.2	42.6	47.2
Caviness	Public	70.4	66.0	11.4	49.2	34.1	40.4	37.2	44.4
Hutcheson	Public	70.6	62.2	8.1	47.0	36.6	32.9	34.8	42.1
UARK-5798	Public	69.6	64.5	10.5	48.2	40.0	44.9	42.4	45.9
UARK-5896	Public	66.0	60.1	9.4	45.2	36.8	35.5	36.1	41.6
V91-3036 (E)	Public	69.5	58.5	9.8	45.9	37.9	35.2	36.5	42.2
Overall Mean		70.5	64.2	9.2	48.0	36.5	41.6	39.1	44.4
LSD (.10)		3.6	3.7	2.8	2.0	3.8	3.8	2.7	1.6
Error degrees of freedom		68	68	68	204	68	68	136	340
CV (%)		5.3	6.1	31.5	7.4	10.8	9.6	10.1	8.4
R^2(%)		77	90	60	99	75	77	79	98

[1](E) = Experimental
[2]1997 and 1999 averages.

Table 14. Summary of 2-Year Yields for Maturity Group VI for the 1998 and 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	MSU	Prairie	Average
		bu/A	*bu/A*	*bu/A*
A6961	Asgrow	39.3	36.0	37.6
FFR 665	FFR	40.1	30.6	35.3
HBK 6600	Hornbeck	40.8	36.4	38.6
S62-62	NK	40.8	36.8	38.8
9594	Pioneer	42.0	37.8	40.0
9631	Pioneer	47.2	37.5	42.3
9692	Pioneer	43.2	36.0	39.6
RVS678	Terra	43.3	36.1	39.7
Dillon	Public	42.1	34.3	38.2
Musen	Public	36.1	32.5	34.3
R92-1258 (E)	Public	44.3	41.4	42.8
SC89-147 (E)	Public	40.5	37.7	39.1
Overall Mean		41.6	36.1	38.9
LSD (.10)		2.9	3.4	2.2
Error degrees of freedom		44	44	88
CV (%)		7.1	9.6	8.3
R^2(%)		83	59	80

[1](E) = Experimental.

Table 15. Summary of 2-Year Yields for Maturity Group IV Early Roundup Ready for the 1998 and 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Clarksdale	Stoneville Irr.	Stoneville Nonirr.	Delta avg.	MSU	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AP 4602RR	Agripro	53.9	60.9	28.3	47.7	38.2	45.4
AG 4601RR	Asgrow	61.5	64.1	30.2	51.9	39.1	48.7
AG 4602RR	Asgrow	56.9	65.6	28.4	50.3	37.0	47.0
AG 4702RR	Asgrow	54.7	64.1	26.7	48.5	42.6	47.0
DK 4762RR	Delta King	54.7	60.6	23.1	46.1	34.7	43.3
H4252RR	Hartz	53.2	65.2	24.7	47.7	37.4	45.1
SG 468RR	Sure-Grow	60.5	66.8	28.0	51.8	39.3	48.7
TS466RR	Terra	55.9	60.1	27.5	47.8	34.5	44.5
TV4466RR	Terral	54.9	61.2	23.2	46.4	29.7	42.2
SF477RR	Wilfarm	59.5	64.7	29.6	51.3	36.3	47.5
Overall Mean		56.6	63.3	30.0	49.0	36.9	45.9
LSD (.10)		5.2	3.4	2.5	2.2	6.2	2.2
Error degrees of freedom		36	36	36	108	36	144
CV (%)		9.5	5.5	9.4	8.1	17.2	10.2
R^2(%)		83	74	97	97	78	96

[1]All are released varieties.

Table 16. Summary of 2-Year Yields for Maturity Group IV Late Roundup Ready for the 1998 and 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Clarksdale	Stoneville Irr.	Stoneville Nonirr.	Delta avg.	MSU	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AG 4901RR	Asgrow	56.0	57.6	26.6	46.7	35.4	43.9
DK 4965RR	Delta King	60.6	61.3	23.7	48.6	—	—
H4998RR	Hartz	—	61.7	18.4	—	39.1	—
9492RR	Pioneer	60.4	62.8	28.5	50.5	42.0	48.4
94B81RR	Pioneer	54.0	60.2	23.2	45.8	39.4	44.2
SG498RR	Sure-Grow	67.5	66.7	22.5	52.2	38.5	48.8
Overall Mean		59.7	61.7	23.8	48.8	38.9	46.3
LSD (.10)		3.5	4.3	3.4	2.2	4.4	2.0
Error degrees of freedom		16	20	20	48	16	48
CV (%)		5.8	7.1	14.3	7.9	11.3	8.8
R^2(%)		93	79	95	98	92	97

[1]All are released varieties.

Table 17. Summary of 2-Year Yields for Maturity Group V Early Roundup Ready for the 1998 and 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Clarksdale	Stoneville Irr.	Stoneville Nonirr.	Delta avg.	MSU	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AG 5401RR	Asgrow	63.7	67.2	26.3	52.4	35.1	48.1
AG 5602RR	Asgrow	66.6	68.5	22.3	52.5	33.1	47.6
DK 5263RR	Delta King	53.3	56.8	17.2	42.4	31.7	39.7
DK 5664RR	Delta King	55.6	55.8	23.7	45.0	24.2	39.8
DP 5644RR	Deltapine	56.4	65.2	22.8	48.1	38.6	45.7
FFR RT557	FFR	57.2	68.8	30.5	52.1	42.1	49.6
H5350RR	Hartz	60.5	61.9	19.6	47.3	37.7	44.9
HBK R5588RR	Hornbeck	61.2	64.3	29.8	51.8	39.4	48.7
95B41RR	Pioneer	69.3	67.1	30.0	55.5	35.8	50.5
TS556RR	Terra	52.7	62.9	26.0	47.2	37.1	44.7
TS558RR	Terra	57.1	57.9	20.7	45.2	34.9	42.6
TV5466RR	Terral	52.8	61.9	26.9	47.2	36.0	44.4
TV5666RR	Terral	54.8	61.9	26.8	47.8	37.6	45.3
SF567	Wilfarm	58.7	63.1	21.1	47.7	29.9	43.2
2517RR	Willcross	56.5	63.8	23.9	48.1	37.5	45.4
Overall Mean		58.4	63.1	24.5	48.7	35.4	45.4
LSD (.10)		5.9	2.5	3.9	2.5	4.5	2.2
Error degrees of freedom		56	56	56	168	56	224
CV (%)		10.4	4.1	16.6	9.2	13.1	10.0
R^2(%)		78	87	93	97	60	96

[1]All are released varieties.

Table 18. Summary of 2-Year Yields for Maturity Group V Late Roundup Ready for the 1998 and 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Clarksdale	Stoneville Irr.	Stoneville Nonirr.	Delta avg.	MSU	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AP 588RR	Agripro	59.5	61.3	19.6	46.8	40.8	45.3
AG 5801RR	Asgrow	57.5	65.8	21.3	48.2	38.3	45.7
AG 5901RR	Asgrow	55.7	59.5	18.7	44.6	38.5	43.1
CX550RR	DEKALB	55.8	61.0	20.7	45.8	37.5	43.8
DK 5961RR	Delta King	64.1	58.1	18.3	46.8	31.5	43.0
DP 5806RR	Deltapine	57.7	54.9	21.1	44.6	43.5	44.3
DP 5960RR	Deltapine	54.6	60.7	20.2	45.2	43.4	44.7
H5999RR	Hartz	55.6	61.2	20.2	45.7	39.9	44.3
HBK R5884RR	Hornbeck	55.3	61.1	20.7	45.7	36.8	43.5
S59-V6RR	NK	64.9	60.5	20.9	48.8	42.2	47.1
X9857R	NK	58.2	55.9	21.0	45.0	40.1	43.8
96B01	Pioneer	57.2	57.2	20.7	45.0	40.9	44.0
SG597RR	Sure-Grow	48.4	61.4	20.9	43.6	43.0	43.4
Overall Mean		57.3	59.9	20.3	45.8	39.7	44.3
LSD (.10)		6.5	4.2	2.4	2.7	4.8	2.3
Error degrees of freedom		48	48	48	144	48	192
CV (%)		11.8	7.2	12.1	10.5	12.4	10.9
R^2(%)		70	82	99	97	64	96

[1]All are released varieties.

Table 19. Summary of 3-Year Yields for Maturity Group IV Early for the 1997, 1998, and 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Clarksdale	Stoneville Irr.	Stoneville Nonirr.	Delta avg.	Olive Branch	Prairie	MSU	Hill avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AP 4880	Agripro	52.2	62.8	24.2	45.3	57.5	37.0	35.9	43.5	44.9
DP 3478	Deltapine	52.5	62.5	23.2	45.6	63.5	33.9	37.1	44.9	45.5
Dixie 478	Dixie	65.0	65.2	18.0	49.4	56.3	36.9	30.0	41.1	45.2
TV 4770	Terral	50.3	54.2	19.0	41.1	48.1	28.8	29.3	35.4	38.3
TN 4-86	Public	36.5	49.8	18.9	35.2	46.0	31.1	27.6	34.9	35.0
Overall Mean		51.3	58.9	20.6	43.3	54.3	33.6	32.0	39.9	41.8
LSD (.10)		4.9	6.8	3.4	2.9	3.2	4.8	3.4	2.2	1.8
Error degrees of freedom		24	24	24	72	24	24	24	72	144
CV (%)		11.7	14.4	20.3	14.6	7.3	17.8	13.3	12.0	13.6
R^2(%)		94	63	82	95	93	81	91	94	95

[1]All are released varieties.

Table 20. Summary of 3-Year Yields for Maturity Group IV Late for the 1997, 1998, and 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Clarksdale	Stoneville Irr.	Stoneville Nonirr.	Delta avg.	Olive Branch	Prairie	MSU	Hill avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
A4922	Asgrow	52.7	55.5	19.1	41.5	56.6	29.2	33.7	39.8	41.1
DP3478	Deltapine	49.3	64.3	20.3	44.6	59.8	34.5	38.6	44.3	44.5
HBK 4890	Hornbeck	60.8	71.9	20.4	49.7	49.3	30.4	29.7	36.5	43.8
9482	Pioneer	56.6	62.5	19.6	46.3	61.2	34.4	35.4	43.7	45.0
9511	Pioneer	66.3	67.5	22.7	50.1	54.5	40.0	44.6	46.4	49.3
TS490	Terra	58.4	66.8	19.7	46.6	49.9	36.7	41.6	42.7	45.5
TV4975	Terral	62.3	65.0	17.6	47.3	47.1	40.6	42.1	43.2	45.8
Manokin	Public	58.2	54.9	24.3	45.2	51.9	34.5	38.1	41.5	43.7
TN4-94	Public	59.8	59.6	17.0	43.7	49.0	31.0	32.8	37.6	41.1
Overall Mean		58.3	62.8	20.1	46.1	53.3	34.6	37.4	41.7	44.4
LSD (.10)		4.4	3.6	3.6	2.0	5.1	4.2	2.8	2.3	1.6
Error degrees of freedom		48	48	48	144	48	48	48	144	288
CV (%)		9.6	7.2	22.4	9.7	12.0	15.3	9.3	12.4	11.4
R^2(%)		86	87	83	97	84	85	93	92	95

[1]All are released varieties.

Table 21. Summary of 3-Year Yields for Maturity Group V Early for the 1997, 1998, and 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Clarksdale	Stoneville Irr.	Stoneville Nonirr.	Delta avg.	Olive Branch	Prairie	MSU	Hill avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
HY 574	Agripro	65.4	59.3	14.7	46.5	51.3	31.5	45.1	42.6	44.6
A5547	Asgrow	65.5	64.1	12.5	47.4	57.1	34.7	43.4	45.1	46.2
DP 5354	Deltapine	65.8	66.6	15.8	49.4	54.3	35.7	44.8	44.9	47.2
DK 5850	Delta King	64.7	61.3	14.7	46.9	56.5	35.6	43.8	45.3	46.1
H5050	Hartz	64.9	60.8	15.5	47.1	51.1	38.1	43.5	44.2	45.7
HBK 5770	Hornbeck	61.0	55.0	11.8	42.6	46.6	39.0	52.7	46.1	44.3
RVS529	Terra	55.0	54.0	12.5	40.5	43.1	29.9	33.7	35.6	38.0
RVS549	Terra	61.4	55.5	14.4	43.8	54.9	32.8	38.6	42.1	42.9
RVS Robin 5	Terra	67.5	60.0	11.6	45.3	51.4	34.3	46.7	44.2	44.8
TV5495	Terral	60.2	53.9	12.4	42.2	52.0	37.9	43.5	44.5	43.3
Delsoy 5500	Public	68.5	64.0	14.7	49.1	49.0	34.9	39.0	41.0	45.0
Hutcheson	Public	68.7	57.6	15.6	47.3	54.1	31.4	39.4	41.6	44.5
TN 5-95	Public	52.8	56.1	12.6	40.5	49.4	32.5	35.5	39.1	39.8
Overall Mean		63.2	58.9	13.8	45.3	51.6	34.5	42.3	42.8	44.0
LSD (.10)		3.1	3.0	3.1	1.7	4.8	4.2	4.6	2.6	1.6
Error degrees of freedom		72	72	72	216	72	72	72	216	432
CV (%)		6.3	6.4	28.4	8.6	11.8	15.4	13.9	13.5	11.2
R^2(%)		82	92	88	98	90	71	77	88	96

[1]All are released varieties.

Table 22. Summary of 3-Year Yields for Maturity Group V Late for the 1997, 1998, and 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Clarksdale	Stoneville Irr.	Stoneville Nonirr.	Delta avg.	Prairie	MSU	Hill avg.	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*	*bu/A*
A5843	Asgrow	67.5	62.5	11.6	47.2	34.7	42.2	38.4	43.7
A5944	Asgrow	72.1	64.4	15.3	50.6	38.5	41.6	40.1	46.4
A5959	Asgrow	73.0	62.4	16.6	50.7	40.6	47.6	44.1	48.0
DK 5995	Delta King	72.6	68.0	15.1	51.9	36.3	46.3	41.3	47.7
DP 3588	Deltapine	61.9	59.4	18.5	46.6	38.8	48.9	43.8	45.5
HBK 5990	Hornbeck	69.9	62.1	17.0	49.7	39.5	46.9	43.2	47.1
S59-60	NK	71.8	62.9	13.7	49.5	36.4	51.0	43.7	47.2
9594	Pioneer	72.7	66.4	18.6	52.6	41.0	47.9	44.5	49.3
RVS 77	Terra	64.6	53.1	13.9	43.8	33.8	45.9	39.9	42.2
TV5893	Terral	63.3	58.9	16.0	46.1	39.0	52.2	45.6	45.9
TV5926	Terral	67.5	55.7	15.0	46.1	33.3	41.6	37.5	42.6
Caviness	Public	65.8	62.7	14.7	47.7	34.2	42.6	38.4	44.0
Hutcheson	Public	66.6	59.5	15.3	47.1	38.1	39.2	38.6	43.7
UARK-5798	Public	67.2	61.7	20.3	49.7	42.6	47.8	45.2	47.9
UARK-5896RR	Public	62.0	55.5	17.2	44.9	38.1	40.0	39.1	42.6
Overall Mean		67.9	61.0	15.9	48.3	37.7	45.5	41.6	45.6
LSD (.10)		3.1	3.1	2.9	1.7	3.4	3.3	2.3	1.4
Error degrees of freedom		84	84	84	252	84	84	168	420
CV (%)		5.9	6.4	23.6	8.1	11.5	9.1	10.2	8.8
R^2(%)		84	90	93	98	77	84	85	98

[1]All are released varieties.

Table 23. Summary of 3-Year Yields for Maturity Group VI for the 1997, 1998, and 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	MSU	Prairie	Average
		bu/A	*bu/A*	*bu/A*
A6961	Asgrow	45.4	37.8	41.6
HBK 6600	Hornbeck	47.2	38.3	42.7
S62-62	NK	44.0	39.4	41.7
9631	Pioneer	49.6	40.3	44.9
RVS678	Terra	46.6	39.7	43.1
Dillon	Public	46.6	35.5	41.0
Musen	Public	41.7	35.7	38.7
R92-1258 (E)	Public	47.3	45.5	46.4
SC89-147 (E)	Public	44.3	40.2	42.3
Overall Mean		45.8	39.2	42.5
LSD (.10)		2.1	3.6	2.1
Error degrees of freedom		48	48	96
CV (%)		5.8	11.6	8.8
R^2(%)		93	69	87

[1](E) = Experimental.

Table 24. Summary of 3-Year Yields for Maturity Group IV Early and Late Roundup Ready for the 1997, 1998, and 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Stoneville Irr.	Stoneville Nonirr.	Delta avg.	MSU	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AG4601RR	Asgrow	63.7	30.4	47.1	33.6	42.6
AG4702RR	Asgrow	63.7	28.4	46.0	36.5	42.8
H4998RR	Hartz	63.4	23.7	43.5	38.1	41.7
TV4466RR	Terral	60.7	22.5	41.6	26.0	36.4
SF477RR	Wilfarm	63.8	30.5	47.1	32.8	42.3
Overall Mean		62.9	27.9	45.4	32.2	41.0
LSD (.10)		3.3	2.0	1.9	4.6	1.9
Error degrees of freedom		18	18	36	18	54
CV (%)		6.5	8.7	7.4	17.4	10.4
R^2(%)		72	96	98	88	97

[1]All are released varieties.

Table 25. Summary of 3-Year Yields for Maturity Group V Early Roundup Ready for the 1997, 1998, and 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Stoneville Irr.	Stoneville Nonirr.	Delta avg.	MSU	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AG5602RR	Asgrow	66.3	26.2	46.2	34.3	42.3
DP 5644RR	Deltapine	65.6	26.8	46.2	39.8	44.1
HBK R5588RR	Hornbeck	63.8	31.8	47.8	40.0	45.2
TV5466RR	Terral	62.1	30.6	46.3	36.4	43.0
TV5666RR	Terral	62.9	31.3	47.1	40.0	43.7
SF567RR	Wilfarm	65.2	25.6	45.4	32.3	41.0
Overall Mean		64.3	28.7	46.5	36.6	43.2
LSD (.10)		2.7	4.2	2.5	3.4	2.0
Error degrees of freedom		30	30	60	30	90
CV (%)		5.3	18.2	9.5	11.5	10.1
R^2(%)		71	88	97	59	96

[1]All are released varieties.

Table 26. Summary of 3-Year Yields for Maturity Group V Late Roundup Ready for the 1997, 1998, and 1999 Mississippi Soybean Variety Trials.[1]

Variety	Brand	Stoneville Irr.	Stoneville Nonirr.	Delta avg.	MSU	Overall avg.
		bu/A	*bu/A*	*bu/A*	*bu/A*	*bu/A*
AP588RR	Agripro	61.6	23.2	42.4	38.6	41.1
AG5801RR	Asgrow	66.6	28.2	47.4	37.5	44.1
AG5901RR	Asgrow	61.2	24.0	42.6	37.7	40.9
DP 5806RR	Deltapine	59.3	26.0	42.7	42.6	42.6
DP 5960RR	Deltapine	62.6	24.4	43.5	43.0	43.3
H5999RR	Hartz	64.1	27.0	45.6	38.0	43.0
HBK R5884RR	Hornbeck	62.6	25.4	44.0	38.7	42.2
S59-V6RR	NK	64.4	26.1	45.2	41.4	44.0
SG597RR	Sure-Grow	63.0	26.9	44.9	43.0	44.3
Overall Mean		62.8	25.7	44.3	40.1	42.9
LSD (.10)		3.4	2.2	2.0	3.7	1.8
Error degrees of freedom		48	48	96	48	144
CV (%)		6.9	10.8	8.3	11.6	9.3
R^2(%)		81	98	98	66	97

[1]All are released varieties.

Location 1. MAFES Delta Branch, Stoneville

Location Summary

The field was in very good condition for planting. It was land planed after tillage in the fall. During the spring, the field was burned down and planted under optimum soil moisture. June was not as hot and dry as last season, but July and August drought took its toll on the nonirrigated test.

Soil type: Sharkey clay
Soil pH: 7.2
Soil fertility: P–H+, K–H+
Fertilizer added: None
Herbicide application: Preplant Foliar - Irrigated and Nonirrigated - Roundup Ultra @ 32 oz/A
Preemergence - Conventional: Squadron @ 3 pt/A + Prowl @ 0.6 pt/A
Gramoxone Extra @ 32 oz/A
Roundup Ready: Roundup Ultra @ 32 oz/A
Postemergence - Conventional: Irrigated & Nonirrigated - Storm @ 1.5 pt/A
Roundup Ready: Irrigated & Nonirrigated - Roundup Ultra @ 32 oz/A
Cultivation: Cultivated Irrigated and Nonirrigated (July 6)
Irrigation: Conventional: July 8, July 26, Aug. 6, Aug. 23, and Group V E&L Sept. 9
Roundup Ready: July 8, July 26, Aug. 23, and Group V E&L Sept. 9
Planting date: May 10, 1999
Harvest date: Group IV E&L Nonirrigated - Sept. 14; Group IV E Irrigated - Sept. 27
RR Group IV E&L Irrigated - Sept. 27; Group IVL Irrigated - Sept. 28
Group V E Irrigated - Oct. 6; RR Group V E Irrigated - Oct. 6
RR Group V E Nonirrigated - Oct. 6; Group V L Irrigated - Oct. 7
Group V E&L Nonirrigated - Oct. 7; RR Group V L Nonirrigated - Oct. 11

Table 27. Maturity Group IV Early Soybeans Planted May 10, 1999, and Irrigated (Delta Branch Experiment Station, Stoneville).[1,2]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
Delta King 4711	Delta King	—	—	76.5	9/23	33	3
DK XTJ684 (E)	Delta King	—	—	71.5	9/18	29	2
AP 4882	Agripro	57.7	66	71.1	9/19	37	2
Dixie 478	Dixie	—	—	68.3	9/22	34	3
SG468RR	Sure-Grow	—	—	68.2	9/19	34	4
DP 4909	Deltapine	—	—	67.5	9/23	33	4
Delta King 4680	Delta King	—	—	67.3	9/19	32	2
DP 3478	Deltapine	53.8	57.6	63.3	9/19	34	3
TV 4770	Terral	41.9	41.9	59.9	9/20	36	3
AP 4880	Agripro	58.1	66.6	59.4	9/23	40	3
TN4-86	Public	43.5	46.9	56.7	9/14	37	3
HBK 4600	Hornbeck	—	63.4	53.8	9/14	30	2
A4604	Asgrow	—	64.7	48.7	9/14	30	1
DK4860	Delta King	—	—	47.6	9/14	28	1
Overall Mean		46.9	57.3	62.9			
LSD (.10)		7.4	5.7	12.8			
Error degrees of freedom		—	30	26			
CV (%)		—	7.2	14.6			
R^2 (%)		—	82	59			

[1]Sharkey Clay Soil. (E) = Experimental.
[2]Average of Early Planted and Late Planted.

Rainfall Summary

	Inches
May	5.69
June	2.81
July	1.03
August	0.23
September	1.72
October	1.11
Total	12.59

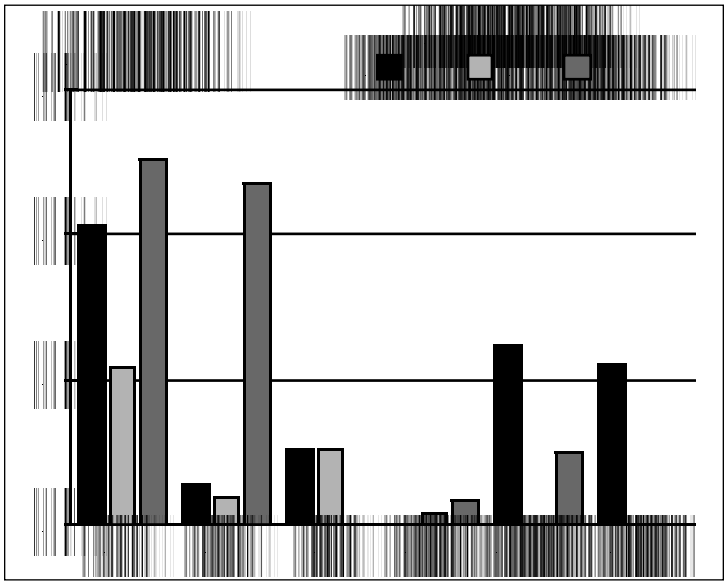

Table 28. Maturity Group IV Late Soybeans Planted May 10, 1999, and Irrigated (Delta Branch Experiment Station, Stoneville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
HBK 4890	Hornbeck	55.1	75.6	80.0	9/25	39	3
TVX4881 (E)	Terral	—	—	78.6	9/24	33	3
Delta King 4868 RR	Delta King	—	—	76.7	9/20	31	2
S51-00	NK	—	—	76.4	9/25	36	4
FFR 495	Elite	—	—	76.1	9/22	40	5
TS 490	Terra	58.3	60.8	75.3	9/24	46	5
DP 3478	Deltapine	53.8	62.1	74.4	9/20	34	3
H4994RR	Hartz	—	—	74.3	9/20	23	1
DT97-4290 (E)	Public	—	—	73.6	9/23	30	5
9511	Pioneer	56.2	63.7	72.9	9/22	38	5
HBK 4891	Hornbeck	—	—	70.9	9/19	30	2
TV 4975	Terral	54.6	61.6	70.7	9/24	37	5
DT97-4318 (E)	Public	—	—	70.4	9/22	37	3
DK XTJ894RR (E)	Delta King	—	—	69.2	9/20	33	4
SG498RR	Sure-Grow	—	—	68.8	9/21	31	1
USG 7499	USG	—	—	68.5	9/18	38	5
9482	Pioneer	49.8	71.7	65.7	9/15	34	2
Progeny 4900	Progeny	—	—	65.3	9/13	35	2
Manokin	Public	53.8	45.6	64.8	9/22	22	1
FFR 514	FFR	—	—	64.6	9/19	29	1
TN4-94	Public	48.7	54.8	63.3	9/22	37	3
RVS 499	Terra	—	—	63.1	9/25	48	5
R95-3235 (E)	Public	—	—	62.4	9/19	19	1
FFR HT4985	FFR	—	—	62.2	9/19	24	1
A4922	Asgrow	39.9	61.2	60.2	9/18	35	2
DK4965	Delta King	—	—	57.0	9/15	31	1
DK 4762RR	Delta King	—	50.3	56.5	9/14	35	2
TS 4792	Terra	—	—	55.1	9/16	35	3
Overall Mean		49.0	61.9	68.5			
LSD (.10)		6.5	5.7	5.5			
Error degrees of freedom		—	36	54			
CV (%)		—	6.7	5.9			
R^2 (%)		—	81	82			

[1]Sharkey Clay Soil. (E) = Experimental.
[2]Average of Early Planted and Late Planted.

Table 29. Maturity Group IV Early Soybeans Planted May 10, 1999, and Not Irrigated (Delta Branch Experiment Station, Stoneville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
DK4860	Delta King	—	—	21.6	8/31	27	1
DP 4909	Deltapine	—	—	20.6	9/19	26	1
HBK 4600	Hornbeck	—	25.4	18.3	8/31	24	1
A4604	Asgrow	—	22.4	18.1	8/26	30	1
Delta King 4711	Delta King	—	—	17.2	8/27	32	1
AP 4882	Agripro	—	—	15.8	8/26	32	1
TN4-86	Public	19.4	25.1	15.4	8/30	34	2
DP 3478	Deltapine	27.9	25.5	15.1	8/27	32	1
DK XTJ684 (E)	Delta King	—	—	15.0	8/28	33	2
TV 4770	Terral	17.6	20.7	14.6	9/2	36	1
Dixie 478	Dixie	17.7	17.7	14.6	8/31	36	1
SG468RR	Sure-Grow	—	—	13.9	8/31	31	1
AP 4880	Agripro	28.4	24.9	13.6	8/28	32	1
Delta King 4680	Delta King	—	—	11.8	9/1	30	1
Overall Mean		19.4	22.0	16.1			
LSD (.10)		3.9	3.1	3.5			
Error degrees of freedom		—	28	26			
CV (%)		—	10.0	15.7			
R^2 (%)		—	77	82			

[1]Sharkey Clay Soil. (E) = Experimental.
[2]Average of Early Planted and Late Planted.

Table 30. Maturity Group IV Late Soybeans Planted May 10, 1999, and Not Irrigated (Delta Branch Experiment Station, Stoneville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
R95-3235 (E)	Public	—	—	19.9	9/7	17	1
Manokin	Public	29.2	20.1	18.6	9/9	22	1
DT97-4318 (E)	Public	—	—	17.5	9/5	33	2
HBK 4891	Hornbeck	—	—	16.8	8/25	28	1
Progeny 4900	Progeny	—	—	16.7	8/27	28	1
TVX4881 (E)	Terral	—	—	16.4	8/28	34	1
A4922	Asgrow	18.1	19.9	16.4	8/31	31	1
H4994RR	Hartz	—	—	16.3	9/6	27	1
HBK 4890	Hornbeck	23.1	15.6	16.2	9/2	33	1
TS 4792	Terra	—	22.1	16.2	9/2	35	2
FFR 514	FFR	—	—	16.0	8/25	27	1
DK 4762RR	Delta King	—	—	15.8	9/3	31	1
DK4965	Delta King	—	—	15.7	9/9	33	1
DT97-4290 (E)	Public	—	—	15.3	9/3	35	1
Delta King 4868 RR	Delta King	—	—	14.2	8/30	29	1
DP 3478	Deltapine	27.9	18.1	13.8	8/29	29	1
FFR HT4985	FFR	—	—	13.5	9/5	21	1
9511	Pioneer	29.8	17.1	12.5	9/1	35	2
SG498RR	Sure-Grow	—	—	12.5	9/7	31	1
FFR 495	Elite	—	—	12.2	9/7	35	1
TS 490	Terra	24.8	13.1	12.1	9/8	26	2
9482	Pioneer	23.2	25.4	11.1	8/31	28	2
TN4-94	Public	19.1	17.3	10.9	9/7	34	2
DK XTJ894RR (E)	Delta King	—	—	10.8	9/4	34	1
USG 7499	USG	—	—	10.4	8/31	32	2
RVS 499	Terra	—	—	9.8	8/31	38	2
TV 4975	Terral	23.7	15.7	9.6	9/5	36	2
S51-00	NK	—	—	8.3	9/3	34	1
Overall Mean		21.3	18.8	14.1			
LSD (.10)		7.2	3.6	5.4			
Error degrees of freedom		—	36	54			
CV (%)		—	14.0	28.0			
R^2 (%)		—	69	58			

[1]Sharkey Clay Soil. (E) = Experimental.
[2]Average of Early Planted and Late Planted.

Table 31. Maturity Group V Early Soybeans Planted May 10, 1999, and Irrigated (Delta Branch Experiment Station, Stoneville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
A5547	Asgrow	49.7	61.1	78.5	9/29	24	1
RVS Robin 5	Terra	35.2	54.7	75.9	9/29	24	1
HY 574	HyPerformer	51.4	52.2	75.7	10/4	32	2
Delsoy 5500	Public	52.1	61.3	74.7	9/29	26	1
DP 5354	Deltapine	59.1	60.9	74.6	9/20	31	2
H5050	Hartz	54.1	54.3	73.8	10/2	37	2
Progeny 5400	Progeny	—	—	72.1	9/30	26	2
9511	Pioneer	—	63.9	72.0	9/23	38	4
Hutcheson	Public	45.4	49.6	71.9	9/27	19	1
NK X9952 (E)	NK	—	—	70.5	9/27	36	3
95B33	Pioneer	—	74.5	70.5	9/23	21	1
HBK 5770	Hornbeck	50.2	64.1	70.3	10/2	30	2
RVS 549	Terra	51.2	48.1	68.0	9/29	24	1
Essex RSV1 (E)	Public	—	52.5	67.9	9/22	20	1
A5404	Asgrow	—	—	67.4	9/24	24	1
TN5-95	Public	46.9	53.7	67.0	9/21	24	1
A5704	Asgrow	—	57.7	66.9	9/25	21	1
TS 520	Terra	—	49.7	66.3	10/6	40	3
ACCOMAC	Public	—	—	66.0	9/28	26	1
Progeny 5120N	Progeny	—	—	65.5	9/22	24	1
APX 9563 (E)	Agripro	—	—	65.5	9/29	22	1
DK 5850	Delta King	50.4	64.7	64.9	9/29	24	1
DK 5580	Delta King	—	—	64.9	9/27	23	1
TV5495	Terral	43.5	49.3	63.9	9/28	30	2
Essex	Public	—	56.5	63.0	9/22	19	1
Essex RSV4 (E)	Public	—	—	62.9	9/23	18	1
NK X9955R (E)	NK	—	—	62.0	9/29	26	1
RVS 529	Terra	55.9	45.2	60.6	9/27	38	5
5664RR	Delta King	—	—	59.9	10/2	30	2
5263RR	Delta King	—	—	57.2	9/23	20	1
Overall Mean		47.6	55.8	68.0			
LSD (.10)		6.3	5.2	5.2			
Error degrees of freedom		—	62	58			
CV (%)		—	6.9	5.6			
R^2 (%)		—	85	75			

[1]Sharkey Clay Soil. (E) = Experimental.
[2]Average of Early Planted and Late Planted.

Table 32. Maturity Group V Late Soybeans Planted May 10, 1999, and Irrigated (Delta Branch Experiment Station, Stoneville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
DT96-6840 (E)	Public	—	—	80.6	9/30	28	1
DT96-16809 (E)	Public	—	—	79.8	9/28	32	2
DK5995	Delta King	51.5	70.1	79.6	10/2	25	1
A5959	Asgrow	52.8	52.9	79.0	9/30	26	1
A5944	Asgrow	54.7	58.8	77.9	9/29	29	1
Bolivar	Public	—	66.7	76.5	9/26	28	1
9594	Pioneer	57.7	62.9	76.4	9/28	26	1
HBK 5991	Hornbeck	—	—	76.1	9/29	25	1
S59-60	NK	48.6	62.5	74.3	9/28	22	1
Delta King 5762 RR	Delta King	—	—	73.9	10/2	31	2
DP 5655	Deltapine	—	—	73.5	9/26	33	4
UARK-5798	Public	56.1	55.9	73.1	9/30	27	1
USG 7539	USG	—	—	72.7	9/29	22	1
DP 3588	Deltapine	52.9	55.1	72.1	9/28	38	3
A5843	Asgrow	48.5	58.8	70.8	10/1	27	1
Caviness	Public	50.1	61.6	70.4	9/26	20	1
R95-798 (E)	Public	—	—	70.4	10/2	26	1
R95-2210 (E)	Public	—	—	69.7	9/30	25	1
Delta King 5661 RR	Delta King	—	—	69.3	9/29	24	1
HBK 5990	Hornbeck	59.4	54.6	69.2	10/1	25	1
FFR 597	Elite	—	—	69.1	10/2	25	1
RVS 77	Terra	47.1	53.1	68.9	10/1	28	1
Hutcheson	Public	45.4	55.8	68.5	9/27	18	1
DG 5810	Delta Grow	—	—	68.5	9/29	23	1
FFR 594	FFR	—	—	67.8	10/3	27	1
HLA572	Hartz	—	—	67.7	9/30	27	2
UARK-5896	Public	52.6	52.6	67.5	9/30	28	2
SG597RR	Sure Grow	—	—	67.4	10/2	40	2
TV 5893	Terral	54.2	55.4	66.7	9/28	34	2
Delsoy 5710	Public	—	—	65.8	9/29	27	2
V91-3036 (E)	Public	—	51.9	65.0	9/30	24	1
X9855 (E)	NK	—	—	64.9	9/26	19	1
TV5926	Terral	51.3	50.3	64.7	10/1	28	2
5961RR	Delta King	—	—	64.4	10/3	29	2
Progeny 5700	Progeny	—	—	62.0	10/1	28	2
Overall Mean		49.8	57.7	71.0			
LSD (.10)		7.2	6.6	4.2			
Error degrees of freedom		—	56	68			
CV (%)		—	8.4	4.3			
R^2 (%)		—	66	80			

[1]Sharkey Clay Soil. (E) = Experimental.
[2]Average of Early Planted and Late Planted.

Table 33. Maturity Group V Early Soybeans Planted May 10, 1999, and Not Irrigated (Delta Branch Experiment Station, Stoneville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
DK 5850	Delta King	13.8	11.6	11.3	10/1	23	1
APX 9563 (E)	Agripro	—	—	10.8	9/25	21	1
DK 5580	Delta King	—	—	10.7	9/28	28	1
RVS Robin 5	Terra	10.6	10.1	10.6	9/23	24	1
A5704	Asgrow	—	14.1	10.6	9/25	19	1
Progeny 5400	Progeny	—	—	10.0	9/26	22	1
Essex RSV4 (E)	Public	—	—	9.3	9/17	18	1
95B33	Pioneer	—	13.2	9.0	9/19	20	1
Hutcheson	Public	17.8	13.1	8.9	9/25	17	1
Essex	Public	—	9.1	8.6	9/15	19	1
Essex RSV1 (E)	Public	—	9.7	8.6	9/17	18	1
Progeny 5120N	Progeny	—	—	8.3	9/22	19	1
RVS 549	Terra	19.4	8.4	8.3	9/23	19	1
A5547	Asgrow	15.7	10.3	8.2	9/24	21	1
DP 5354	Deltapine	23.9	12.1	8.1	9/19	27	1
TV5495	Terral	16.3	11.2	7.9	9/30	32	1
TN5-95	Public	18.2	9.3	7.6	9/22	22	1
NK X9952 (E)	NK	—	—	7.6	9/20	33	1
A5404	Asgrow	—	—	7.5	9/16	20	1
Delsoy 5500	Public	21.7	8.6	7.2	9/24	24	1
ACCOMAC	Public	—	—	6.7	9/30	25	1
NK X9955R (E)	NK	—	—	6.6	10/1	24	1
9511	Pioneer	—	15.5	5.8	9/19	31	1
HY 574	HyPerformer	24.3	9.4	5.4	9/20	24	1
H5050	Hartz	25.8	8.9	5.1	9/25	27	1
5664RR	Delta King	—	—	4.6	10/1	23	1
HBK 5770	Hornbeck	20.3	8.9	4.4	9/25	26	1
5263RR	Delta King	—	—	4.0	9/19	20	1
RVS 529	Terra	21.3	8.1	3.4	9/24	35	2
TS 520	Terra	—	3.6	3.1	9/26	35	1
Overall Mean		18.4	10.4	7.6			
LSD (.10)		6.4	2.6	2.9			
Error degrees of freedom		—	62	58			
CV (%)		—	18.6	28.2			
R^2 (%)		—	69	67			

[1]Sharkey Clay Soil. (E) = Experimental.
[2]Average of Early Planted and Late Planted.

Table 34. Maturity Group V Late Soybeans Planted May 10, 1999, and Not Irrigated (Delta Branch Experiment Station, Stoneville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
Delta King 5762 RR	Delta King	—	—	12.0	10/1	26	1
R95-2210 (E)	Public	—	—	11.9	10/1	22	1
DT96-16809 (E)	Public	—	—	11.7	9/30	28	1
Bolivar	Public	—	13.7	11.7	9/28	28	1
UARK-5798	Public	32.2	10.4	10.6	9/28	23	1
Caviness	Public	18.1	12.6	10.2	9/24	22	1
X9855 (E)	NK	—	—	10.2	9/24	24	1
Delta King 5661 RR	Delta King	—	—	10.0	9/23	25	1
A5959	Asgrow	22.2	10.7	10.0	9/25	24	1
DT96-6840 (E)	Public	—	—	10.0	9/26	24	1
9594	Pioneer	28.6	11.4	9.8	9/24	21	1
DK5995	Delta King	18.7	11.5	9.5	9/28	21	1
UARK-5896	Public	27.1	10.6	8.2	10/1	28	2
SG597RR	Sure Grow	—	—	8.1	10/1	33	1
DP 3588	Deltapine	29.8	9.8	7.8	9/30	24	1
FFR 597	Elite	—	—	7.7	10/2	24	1
V91-3036 (E)	Public	—	12	7.6	9/30	25	1
HLA572	Hartz	—	—	7.4	9/30	29	1
HBK 5990	Hornbeck	26.5	10.7	7.4	10/2	26	1
A5843	Asgrow	16.3	11.2	7.2	9/30	26	1
Hutcheson	Public	17.8	9.1	7.1	9/28	18	1
RVS 77	Terra	22.2	8.4	6.7	10/1	25	1
HBK 5991	Hornbeck	—	—	6.6	9/24	20	1
FFR 594	FFR	—	—	6.5	10/2	28	1
R95-798 (E)	Public	—	—	6.4	9/24	22	1
Delsoy 5710	Public	—	—	6.0	9/30	26	1
A5944	Asgrow	24.4	10.3	5.7	9/29	25	1
TV 5893	Terral	26.1	8.5	5.6	9/25	27	1
DG 5810	Delta Grow	—	—	5.1	9/23	20	1
DP 5655	Deltapine	—	—	5.0	9/29	34	3
USG 7539	USG	—	—	4.5	9/29	21	1
TV5926	Terral	23.8	9.8	4.4	10/1	24	1
5961RR	Delta King	—	—	3.7	9/30	25	1
Progeny 5700	Progeny	—	—	3.4	10/1	23	1
S59-60	NK	22.7	10.4	2.7	10/1	25	1
Overall Mean		21.9	10.6	7.8			
LSD (.10)		7.7	3.0	4.4			
Error degrees of freedom		—	56	70			
CV (%)		—	20.4	41.6			
R^2 (%)		—	49	58			

[1]Sharkey Clay Soil. (E) = Experimental.
[2]Average of Early Planted and Late Planted.

Table 35. Roundup Ready Maturity Group IV Early Soybeans Planted May 10, 1999, and Irrigated (Delta Branch Experiment Station, Stoneville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
DP 4690RR	Deltapine	—	—	69.0	9/22	33	2
AP 4888RR	Agripro	—	—	67.0	9/22	36	3
DPX 8S47RR (E)	Deltapine	—	—	66.7	9/22	35	2
SG468RR	Sure-Grow	—	67.4	66.1	9/20	36	3
TVX4787RR (E)	Terral	—	—	64.8	9/19	35	2
AG4602	Asgrow	—	66.7	64.5	9/15	34	3
H4252RR	Hartz	—	66.9	63.5	9/20	37	2
DP 4750RR	Deltapine	—	—	63.1	9/23	38	2
AG4702	Asgrow	62.8	65.6	62.6	9/12	30	2
DG 4650RR	Delta Grow	—	—	61.9	9/12	34	1
3463NRR	Dyna-Gro	—	—	60.8	9/15	37	2
Genesis M473RR	Genesis	—	—	60.6	9/12	32	2
HBK R4660	Hornbeck	—	—	59.2	9/15	38	2
SF477RR	Wilfarm	62.1	70.3	59.0	9/18	30	2
TV4466RR	Terral	—	69.1	58.7	9/14	36	2
AP 4602RR	Agripro	—	63.5	58.4	9/15	35	2
TS 466RR	Terra	—	61.1	56.2	9/15	32	2
AG4601	Asgrow	62.9	72.2	56.0	9/14	33	2
DK 4762RR	Delta King	—	65.3	55.9	9/13	36	2
TVX4589RR (E)	Terral	—	—	55.1	9/12	34	2
AG4402	Asgrow	—	—	53.2	9/11	33	2
Overall Mean		57.6	65.2	61.1			
LSD (.10)		6.1	4.9	4.8			
Error degrees of freedom		26	30	40			
CV (%)		7.6	5.4	5.7			
R^2 (%)		82	59	72			

[1]Sharkey Clay Soil. (E) = Experimental.
[2]Average of Early Planted and Late Planted.

Table 36. Roundup Ready Maturity Group IV Late Soybeans Planted May 10, 1999, and Irrigated (Delta Branch Experiment Station, Stoneville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
Delta King 4868 RR	Delta King	—	—	71.9	9/20	33	2
S51-TI	NK	—	—	71.0	9/18	44	5
H4998RR	Hartz	66.7	52.9	70.5	9/19	60	5
TS4979RR	Terra	—	—	69.5	9/22	44	5
USG 7489RR	USG	—	—	63.8	9/19	35	2
HBK R4855	Hornbeck	—	—	63.4	9/12	32	2
FFR RT517	Elite	—	—	62.9	9/27	26	1
AG4902	Asgrow	—	—	61.4	9/15	36	2
DK4965	Delta King	—	62.1	60.6	9/16	33	2
WF480RR	Wilfarm	—	—	59.7	9/12	36	2
TV4890RR (E)	Terral	—	—	59.6	9/14	37	2
USG 7499	USG	—	—	59.5	9/16	36	2
SG498RR	Sure-Grow	—	73.8	59.5	9/20	30	2
9492	Pioneer	—	66.7	58.8	9/15	33	2
94B81	Pioneer	—	65.1	55.3	9/12	37	3
USG 7478nRR	USG	—	—	54.6	9/14	37	2
AG4901	Asgrow	—	60.5	54.6	9/12	34	2
AG4601	Asgrow	—	—	53.6	9/12	34	2
Overall Mean		57.6	62.2	61.7			
LSD (.10)		6.1	6.4	8.7			
Error degrees of freedom		26	26	34			
CV (%)		7.6	7.3	10.2			
R^2 (%)		82	66	62			

[1]Sharkey Clay Soil. (E) = Experimental.
[2]Average of Early Planted and Late Planted.

Table 37. Roundup Ready Maturity Group IV Early Soybeans Planted May 10, 1999, and Not Irrigated (Delta Branch Experiment Station, Stoneville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
SF477RR	Wilfarm	32.2	38.1	21.1	9/2	30	2
AP 4602RR	Agripro	—	35.5	21.1	8/28	33	1
TVX4589RR (E)	Terral	—	—	20.6	8/28	33	1
AG4601	Asgrow	31.1	40.4	20.0	9/3	29	1
AG4602	Asgrow	—	37.2	19.7	8/28	34	1
3463NRR	Dyna-Gro	—	—	19.6	8/27	36	1
AG4702	Asgrow	35.9	33.7	19.6	8/27	32	1
HBK R4660	Hornbeck	—	—	16.6	8/31	35	1
TS 466RR	Terra	—	38.5	16.5	8/28	36	1
SG468RR	Sure-Grow	—	40.8	15.2	9/1	30	2
DP 4750RR	Deltapine	—	—	15.1	9/3	32	2
DK 4762RR	Delta King	—	32.1	14.1	9/1	38	2
DP 4690RR	Deltapine	—	—	13.6	9/5	34	1
Genesis M473RR	Genesis	—	—	13.4	8/29	37	2
AG4402	Asgrow	—	—	13.4	8/26	32	1
H4252RR	Hartz	—	37.4	12.1	8/31	36	2
TVX4787RR (E)	Terral	—	—	12.0	8/31	32	1
TV4466RR	Terral	—	36.9	11.6	8/28	35	1
DG 4650RR	Delta Grow	—	—	11.1	9/1	33	1
DPX 8S47RR (E)	Deltapine	—	—	9.6	9/6	34	1
AP 4888RR	Agripro	—	—	9.6	9/3	36	1
Overall Mean		28.4	35.8	15.5			
LSD (.10)		4.6	4.0	3.6			
Error degrees of freedom		26	30	40			
CV (%)		11.7	8.2	16.8			
R^2 (%)		80	74	78			

[1]Sharkey Clay Soil. (E) = Experimental.
[2]Average of Early Planted & Late Planted.

Table 38. Roundup Ready Maturity Group IV Late Soybeans Planted May 10, 1999, and Not Irrigated (Delta Branch Experiment Station, Stoneville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
FFR RT517	Elite	—	—	19.4	8/15	30	1
9492	Pioneer	—	39.1	17.9	9/1	34	1
AG4601	Asgrow	—	—	17.7	8/27	33	1
TV4890RR (E)	Terral	—	—	16.4	8/28	35	1
WF480RR	Wilfarm	—	—	15.8	9/1	37	1
DK4965	Delta King	—	32.4	15.0	8/30	33	1
Delta King 4868 RR	Delta King	—	—	14.2	9/1	29	1
USG 7478nRR	USG	—	—	13.7	8/28	34	1
AG4901	Asgrow	—	—	13.4	8/31	35	1
94B81	Pioneer	—	33.1	13.3	8/28	37	1
AG4902	Asgrow	—	—	13.3	9/5	31	1
USG 7499	USG	—	—	12.9	8/30	35	1
SG498RR	Sure-Grow	—	34.1	11.1	9/8	31	1
HBK R4855	Hornbeck	—	—	10.2	8/31	32	1
USG 7489RR	USG	—	—	8.4	9/1	33	1
H4998RR	Hartz	27.2	28.9	7.8	9/8	42	3
S51-TI	NK	—	35.6	7.0	9/4	39	3
TS4979RR	Terra	—	—	5.1	9/8	38	3
Overall Mean		28.4	34.9	12.9			
LSD (.10)		4.6	5.5	3.2			
Error degrees of freedom		26	26	34			
CV (%)		11.7	11.4	17.8			
R^2 (%)		80	63	83			

[1]Sharkey Clay Soil. (E) = Experimental.
[2]Average of Early Planted and Late Planted.

Table 39. Roundup Ready Maturity Group V Early Soybeans Planted May 10, 1999, and Irrigated (Delta Branch Experiment Station, Stoneville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
S59-V6	NK	—	—	73.5	9/29	29	1
AG5602	Asgrow	61.8	64.6	72.3	9/29	28	1
95B53	Pioneer	—	—	71.6	9/21	24	1
FFR RT557	Elite	—	—	70.2	9/24	29	1
95B41	Pioneer	—	5.2	69.0	9/22	28	1
HX506187RR (E)	Hartz	—	—	68.1	9/27	32	3
AG5401	Asgrow	—	66.2	68.1	9/28	29	1
DP 5644 RR	Deltapine	66.5	62.6	67.8	9/27	26	1
TS 556RR	Terra	—	58.1	67.6	9/20	26	1
TV5486RR	Terral	—	—	67.4	9/27	46	5
AG5001	Asgrow	—	—	67.3	9/19	36	2
HBK R5588	Hornbeck	62.9	62.1	66.6	9/27	28	1
TV 5666RR	Terral	64.8	57.2	66.6	9/26	28	1
SF567RR	Wilfarm	69.3	59.9	66.3	9/26	26	1
TV 5466RR	Terral	62.4	57.6	66.2	9/22	26	1
H5350RR	Hartz	—	57.6	66.2	9/29	27	1
USG 7548nRR	USG	—	—	65.9	9/21	23	1
2517RR	Willcross	—	62.1	65.6	9/20	27	1
DG 5550RR	Delta Grow	—	—	65.4	9/20	21	1
Genesis M541RR	Genesis	—	—	65.1	9/22	28	2
USG 7528RR	USG	—	—	65.0	9/24	22	1
USG 7557RR	USG	—	—	64.6	9/28	25	1
APX 9519RR (E)	Agripro	—	—	64.6	9/27	24	1
DG 3541NRR (E)	Dyna-Gro	—	—	64.3	9/26	28	2
AP 569RR/N	Agripro	—	—	62.6	9/30	31	2
USG 7547RR	USG	—	—	62.4	9/22	29	1
TS 558RR	Terra	—	53.7	62.1	9/28	31	1
9492	Pioneer	—	—	60.9	9/15	33	2
5263RR	Delta King	—	53.9	59.8	9/21	22	1
FFR RT5485	FFR	—	—	59.6	9/23	22	1
5664RR	Delta King	—	52.5	59.2	10/1	29	1
USG 7509RR	USG	—	—	56.8	9/19	34	2
Overall Mean		61.8	55.1	65.6			
LSD (.10)		5.7	4.7	4.0			
Error degrees of freedom		44	56	62			
CV (%)		6.7	6.3	4.5			
R^2 (%)		60	91	73			

[1]Sharkey Clay Soil. (E) = Experimental.

Table 40. Roundup Ready Maturity Group V Late Soybeans Planted May 10, 1999, and Irrigated (Delta Branch Experiment Station, Stoneville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
AG5701	Asgrow	—	—	75.5	10/1	32	1
HBK XR6020 (E)	Hornbeck	—	—	74.7	10/3	34	2
Delta King 5661 RR	Delta King	—	—	72.4	9/25	33	2
H5999RR	Hartz	—	69.9	72.3	9/28	29	2
DPX 5718RR (E)	Deltapine	—	—	72.0	10/1	36	2
DG 5950RR	Delta Grow	—	—	71.6	10/2	35	2
AG 5801	Asgrow	68.4	60.4	71.1	10/1	28	1
DPX 5915RR (E)	Deltapine	—	—	71.0	10/4	30	2
Delta King 5762 RR	Delta King	—	—	71.0	10/2	36	2
HBK R5920	Hornbeck	—	—	70.8	10/2	36	2
S59-V6	NK	72.1	50.4	70.7	9/27	24	1
WF590RR	Wilfarm	—	—	70.4	9/30	34	2
CX580CRR	DEKALB	—	—	69.9	9/27	27	1
USG 7599nRR (E)	USG	—	—	69.7	9/30	34	2
AG5802	Asgrow	—	—	67.6	10/1	33	2
SG597RR	Sure Grow	66.2	55.8	67.0	10/2	36	2
TS5879RR	Terra	—	—	66.8	9/30	27	1
HX5060167RR (E)	Hartz	—	—	66.5	9/29	42	4
CX550RR	DEKALB	—	56.1	65.9	9/22	31	1
5961RR	Delta King	—	50.4	65.8	10/6	34	2
AG 5901	Asgrow	64.6	53.4	65.6	10/3	34	1
HBK R5884	Hornbeck	65.5	57.3	65.0	10/2	29	2
FFR RT587	Elite	—	—	64.9	9/28	31	1
CX556CRR	DEKALB	—	—	64.6	9/21	27	1
DP 5806 RR	Deltapine	68.3	45.4	64.3	10/1	35	3
AP 588RR	Agripro	62.3	58.4	64.2	9/30	33	2
7589 (E)	Wilcross	—	—	64.1	9/20	27	2
X9857RR (E)	NK	—	—	61.2	9/24	25	1
DP 5960 RR	Deltapine	66.3	61.6	59.9	10/2	30	2
USG 7577RR (E)	USG	—	—	59.7	9/22	29	1
96B01	Pioneer	—	—	54.1	9/30	26	1
Overall Mean		66.3	51.2	67.4			
LSD (.10)		4.9	7.0	4.0			
Error degrees of freedom		30	50	60			
CV (%)		5.4	10.0	4.3			
R^2 (%)		56	83	81			

[1]Sharkey Clay Soil. (E) = Experimental.

Table 41. Roundup Ready Maturity Group V Early Soybeans Planted May 10, 1999, and Not Irrigated (Delta Branch Experiment Station, Stoneville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
DG 3541NRR (E)	Dyna-Gro	—	—	20.5	9/22	24	1
HBK R5588	Hornbeck	35.8	39.9	19.7	9/26	26	1
FFR RT557	Elite	—	—	19.2	9/24	30	1
TV 5466RR	Terral	38.1	35.1	18.7	9/23	26	1
TS 556RR	Terra	—	33.4	18.6	9/25	24	1
TV 5666RR	Terral	40.2	35.4	18.2	9/24	32	1
95B41	Pioneer	—	42.6	17.4	9/25	27	1
USG 7528RR	USG	—	—	17.2	9/23	23	1
DG 5550RR	Delta Grow	—	—	16.0	9/24	25	1
USG 7557RR	USG	—	—	16.0	9/27	26	1
USG 7547RR	USG	—	—	15.9	9/23	26	1
AG5401	Asgrow	—	37.1	15.5	9/25	24	1
Genesis M541RR	Genesis	—	—	15.4	9/22	26	1
9492	Pioneer	—	—	15.3	9/1	31	1
95B53	Pioneer	—	—	15.2	9/22	23	1
FFR RT5485	FFR	—	—	13.7	9/25	20	1
USG 7548nRR	USG	—	—	13.6	9/22	25	1
TS 558RR	Terra	—	28.3	13.0	10/1	27	2
DP 5644 RR	Deltapine	34.8	32.8	12.8	9/25	25	1
S59-V6	NK	—	—	12.4	10/1	28	1
APX 9519RR (E)	Agripro	—	—	12.1	9/22	25	1
2517RR	Willcross	—	36.1	11.8	9/23	26	1
TV5486RR	Terral	—	—	11.4	10/2	36	2
AP 569RR/N	Agripro	—	—	11.2	10/2	29	2
AG5001	Asgrow	—	—	11.1	9/2	31	1
SF567RR	Wilfarm	34.6	32.1	10.3	9/25	27	1
AG5602	Asgrow	33.9	35.3	9.3	9/25	26	1
5664RR	Delta King	—	38.2	9.1	9/25	25	1
5263RR	Delta King	—	26.2	8.1	9/22	22	1
H5350RR	Hartz	—	31.6	7.6	9/23	27	1
USG 7509RR	USG	—	—	5.8	9/3	38	2
HX506187RR (E)	Hartz	—	—	5.7	9/24	27	1
Overall Mean		37.7	34.2	13.7			
LSD (.10)		7.3	7.9	4.4			
Error degrees of freedom		4.4	56	62			
CV (%)		14.1	16.8	23.4			
R^2 (%)		47	54	71			

[1]Sharkey Clay Soil. (E) = Experimental.

Table 42. Roundup Ready Maturity Group V Late Soybeans Planted May 10, 1999, and Not Irrigated (Delta Branch Experiment Station, Stoneville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
CX556CRR	DEKALB	—	—	8.7	9/20	29	1
USG 7577RR	USG	—	—	8.2	90/24	25	1
7589 (E)	Wilcross	—	—	7.5	9/19	28	1
DPX 5915RR (E)	Deltapine	—	—	7.0	9/26	26	1
HBK XR6020 (E)	Hornbeck	—	—	6.7	10/1	32	1
DPX 5718RR (E)	Deltapine	—	—	6.6	9/24	32	1
Delta King 5661 RR	Delta King	—	—	6.2	9/24	29	1
FFR RT587	Elite	—	—	6.2	9/25	30	1
DP 5806 RR	Deltapine	35.7	36.3	5.9	10/3	28	1
AG5701	Asgrow	—	—	5.7	9/24	28	1
SG597RR	Sure Grow	38.9	36.3	5.5	9/20	34	2
Delta King 5762 RR	Delta King	—	—	5.5	9/24	33	1
WF590RR	Wilfarm	—	—	5.4	9/25	32	1
CX550RR	DEKALB	—	36.1	5.3	9/23	25	1
USG 7599nRR (E)	USG	—	—	5.3	9/26	33	1
CX580CRR	DEKALB	—	—	5.0	9/23	27	1
DG 5950RR	Delta Grow	—	—	4.9	9/26	32	1
AG 5801	Asgrow	41.8	37.9	4.7	9/30	27	1
96B01	Pioneer	—	36.9	4.5	9/23	26	1
HBK R5920	Hornbeck	—	—	4.1	9/26	32	1
S59-V6	NK	36.4	38.1	3.7	9/25	29	1
AP 588RR	Agripro	30.4	35.7	3.5	9/25	27	1
DP 5960 RR	Deltapine	32.6	37.1	3.4	10/2	27	1
H5999RR	Hartz	40.7	37.1	3.4	9/24	31	1
HBK R5884	Hornbeck	34.7	38.5	2.9	10/1	27	1
X9857RR (E)	NK	—	—	2.9	9/25	25	1
AG5802	Asgrow	—	—	2.8	10/2	30	1
TS5879RR	Terra	—	—	2.5	9/20	26	1
AG 5901	Asgrow	34.6	35.1	2.2	10/1	29	1
5961RR	Delta King	—	34.4	2.1	10/2	29	2
HX5060167RR (E)	Hartz	—	—	1.9	9/23	22	1
Overall Mean		34.9	33.7	4.9			
LSD (.10)		4.8	4.6	2.3			
Error degrees of freedom		30	50	60			
CV (%)		9.9	10.0	35.2			
R^2 (%)		67	77	64			

[1]Sharkey Clay Soil. (E) = Experimental.

Location 2. Dulaney Farms, Inc., Clarksdale

Location Summary

All plots obtained a good stand within 7-10 days. Adequate moisture and good growing conditions existed until the second week of July. After July 11, no appreciable rainfall occurred until the second week of October. Insects posed no problem in 1999, and very little disease pressure was present.

Soil type: . . . . . Sharkey clay
Soil pH: 6.7
Soil fertility: . . . . . P–H, K–H+
Fertilizer added: . . . . . None
Herbicide application: . . . . Postemergence -
Conventional: Storm @ 1.5 pt/A + Select @ 8 oz/A + COC @ 0.25% (v/v)
Roundup Ready: Roundup Ultra @ 1.5 pt/A
Irrigation: . . . . . July 5, July 27, Aug. 10, Aug. 21, and Sept. 7
Planting date: . . . . . May 11
Harvest date: . . . . . Group IV - Sept. 23; Group V - Oct. 5

Rainfall Summary

	Inches
May	3.10
June	1.60
July	2.00
August	0.80
September	0
Total	7.50

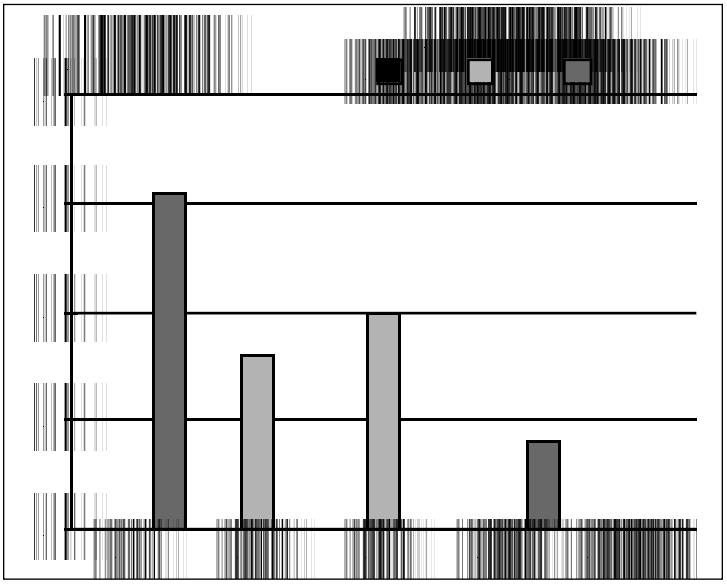

Table 43. Maturity Group IV Early Soybeans Planted May 11, 1999 (Clarksdale, Coahoma County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
Dixie 478	Dixie	—	61.8	69.4	9/20	43	2
DP 3478	Deltapine	24.4	67.9	65.2	9/16	32	2
AP 4882	Agripro	—	—	64.5	9/16	38	2
Delta King 4711	Delta King	—	—	62.4	9/16	36	2
DP 4909	Deltapine	—	—	62.1	9/20	41	2
Delta King 4680	Delta King	—	—	61.9	9/20	34	2
AP 4880	Agripro	31.4	64.1	61.1	9/16	35	2
DK XTJ684 (E)	Delta King	—	—	59.8	9/13	35	3
SG468RR	Sure-Grow	—	—	59.0	9/16	37	2
TV 4770	Terral	32.9	59.5	58.4	9/16	38	2
HBK 4600	Hornbeck	—	61.1	57.4	9/13	30	1
DK4860	Delta King	—	—	52.6	9/13	33	1
A4604	Asgrow	—	56.2	50.8	9/9	32	1
TN4-86	Public	—	48.4	45.8	9/10	37	3
Overall Mean		30.4	56.6	59.3			
LSD (.10)		11.8	4.1	5.1			
Error degrees of freedom		20	28	26			
CV (%)		27.5	5.2	6.2			
R^2 (%)		59	89	83			

[1]Sharkey Clay Soil. (E) = Experimental.

Table 44. Maturity Group IV Late Soybeans Planted May 11, 1999 (Clarksdale, Coahoma County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
S51-00	NK	—	—	74.1	9/25	38	2
Delta King 4868 RR	Delta King	—	—	70.8	9/20	31	2
DT97-4290(E)	Public	—	—	70.5	9/20	37	3
TV 4975	Terral	55.2	61.6	70.2	9/25	47	3
Manokin	Public	50.9	56.1	67.9	9/25	29	1
SG498RR	Sure-Grow	—	—	66.9	9/16	31	1
FFR HT4985	FFR	—	—	66.8	9/22	28	1
HBK 4891	Hornbeck	—	—	65.6	9/13	33	2
9511	Pioneer	65.1	68.8	65.0	9/20	41	2
H4994RR	Hartz	—	—	64.0	9/22	32	2
FFR 495	Elite	—	—	63.8	9/20	36	2
HBK 4890	Hornbeck	60.4	58.5	63.3	9/25	30	2
R95-3235 (E)	Public	—	—	63.3	9/20	22	1
DT97-4318 (E)	Public	—	—	62.6	9/20	37	3
DK XTJ894RR (E)	Delta King	—	—	62.0	9/20	35	2
DP 3478	Deltapine	24.4	61.8	61.8	9/16	32	2
TS 490	Terra	52.2	61.2	61.8	9/25	47	3
RVS 499	Terra	—	—	61.4	9/22	48	4
9482	Pioneer	41.9	67.6	60.4	9/8	32	2
FFR 514	FFR	—	—	59.6	9/20	28	1
A4922	Asgrow	38.3	60.5	59.3	9/16	35	2
TVX4881 (E)	Terral	—	—	56.7	9/16	35	2
TN4-94	Public	63.7	59.4	56.3	9/20	38	2
DK4965	Delta King	—	—	55.5	9/16	34	1
DK 4762RR	Delta King	—	—	52.0	9/16	34	2
Progeny 4900	Progeny	—	—	50.4	9/13	32	2
USG 7499	USG	—	—	49.0	9/25	37	2
TS 4792	Terra	—	47.1	42.6	9/9	37	3
Overall Mean		48.6	60.9	61.6			
LSD (.10)		9.8	5.3	6.2			
Error degrees of freedom		50	36	54			
CV (%)		14.7	6.4	7.3			
R^2 (%)		84	74	80			

[1]Sharkey Clay Soil. (E) = Experimental.

Table 45. Maturity Group V Early Soybeans Planted May 11, 1999 (Clarksdale, Coahoma County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
A5704	Asgrow	—	67.1	70.4	9/27	25	1
RVS Robin 5	Terra	61.4	70.8	70.2	10/1	25	1
HY 574	HyPerformer	63.6	63.2	69.3	10/1	26	1
DK 5580	Delta King	—	—	69.2	9/30	27	1
Hutcheson	Public	62.6	76.4	67.1	10/1	22	1
Delsoy 5500	Public	65.5	73.3	66.6	9/27	24	1
H5050	Hartz	64.9	63.5	66.3	9/30	34	2
DK 5850	Delta King	63.3	65.6	65.3	9/30	28	1
A5547	Asgrow	57.6	74.2	64.8	10/1	30	1
A5404	Asgrow	—	—	63.8	9/25	25	1
TV5495	Terral	57.4	61.1	62.2	9/27	37	2
RVS 549	Terra	58.5	64.3	61.4	10/1	25	1
Progeny 5400	Progeny	—	—	61.4	9/25	25	1
9511	Pioneer	—	67.7	60.5	9/20	42	2
Essex	Public	—	70.2	60.2	9/23	23	1
Essex RSV1 (E)	Public	—	74.9	59.9	9/23	21	1
DP 5354	Deltapine	64.5	73.8	59.2	9/23	29	3
APX 9563 (E)	Agripro	—	—	58.9	9/25	22	1
TS 520	Terra	—	70.4	58.7	10/1	41	2
HBK 5770	Hornbeck	62.5	62.2	58.3	10/1	32	1
Essex RSV4 (E)	Public	—	—	58.3	9/23	23	1
Progeny 5120N	Progeny	—	—	57.1	9/27	28	1
NK X9952 (E)	NK	—	—	56.6	9/26	39	2
ACCOMAC	Public	—	—	55.7	9/25	28	1
5664RR	Delta King	—	—	55.1	10/1	27	1
95B33	Pioneer	—	72.5	53.3	9/27	25	1
RVS 529	Terra	56.1	56.5	52.6	9/25	47	4
5263RR	Delta King	—	—	51.3	9/23	26	1
NK X9955R (E)	NK	—	—	50.3	9/30	26	1
TN5-95	Public	50.8	62.4	45.1	9/25	26	1
Overall Mean		56.9	66.2	60.3			
LSD (.10)		7.2	3.6	6.7			
Error degrees of freedom		58	62	58			
CV (%)		9.3	4.0	8.2			
R^2 (%)		78	89	74			

[1]Sharkey Clay Soil. (E) = Experimental.

Table 46. Maturity Group V Late Soybeans Planted May 11, 1999 (Clarksdale, Coahoma County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
9594	Pioneer	66.1	74.9	77.3	9/30	29	2
DK5995	Delta King	58.8	83.1	75.8	10/4	33	2
HBK 5990	Hornbeck	63.9	70.7	75.1	10/4	24	1
R95-798 (E)	Public	—	—	74.4	10/4	23	1
A5959	Asgrow	63.9	82.1	73.1	10/1	29	1
HBK 5991	Hornbeck	—	—	72.7	10/1	29	1
A5944	Asgrow	64.8	79.6	71.9	10/4	33	3
S59-60	NK	68.3	75.2	71.8	10/1	25	3
DT96-6840 (E)	Public	—	—	71.3	9/27	26	1
V91-3036 (E)	Public	—	68.9	70.1	10/1	28	1
DT96-16809 (E)	Public	—	—	69.5	9/28	28	3
Delta King 5661 RR	Delta King	—	—	69.3	9/27	27	1
A5843	Asgrow	64.2	69.7	68.7	10/1	30	1
TV 5893	Terral	54.7	67.1	68.1	10/1	37	3
R95-2210 (E)	Public	—	—	67.5	10/1	33	3
5961RR	Delta King	—	—	67.2	10/4	32	2
Hutcheson	Public	58.5	74.8	66.4	10/1	25	1
DP 3588	Deltapine	55.1	64.5	66.3	10/4	41	2
UARK-5896	Public	53.9	66.3	65.7	10/1	30	1
Bolivar	Public	—	67.7	65.6	9/25	33	1
Delta King 5762 RR	Delta King	—	—	64.5	10/1	34	1
UARK-5798	Public	62.3	74.7	64.5	10/1	33	3
Caviness	Public	56.6	76.3	64.4	9/27	23	1
TV5926	Terral	66.7	72.2	63.7	10/6	31	1
RVS 77	Terra	60.2	70.7	62.7	10/4	35	2
FFR 594	FFR	—	—	62.6	10/4	27	1
FFR 597	Elite	—	—	62.5	10/4	31	2
USG 7539	USG	—	—	61.1	9/28	26	1
HLA572	Hartz	—	—	60.8	10/6	35	2
Delsoy 5710	Public	—	—	60.7	9/30	32	1
X9855 (E)	NK	—	—	60.4	9/27	28	1
Progeny 5700	Progeny	—	—	58.3	10/1	28	1
DP 5655	Deltapine	—	—	56.1	9/27	29	1
DG 5810	Delta Grow	—	—	56.1	10/1	23	1
SG597RR	Sure Grow	—	—	51.8	10/1	40	2
Overall Mean		59.8	70.3	65.9			
LSD (.10)		5.9	4.6	5.8			
Error degrees of freedom		52	56	70			
CV (%)		7.2	4.8	6.5			
R^2 (%)		76	83	77			

[1]Sharkey Clay Soil. (E) = Experimental.

Table 47. Roundup Ready Maturity Group IV Early Soybeans Planted May 11, 1999 (Clarksdale, Coahoma County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
DPX 8S47RR (E)	Deltapine	—	—	62.3	9/20	37	2
DP 4690RR	Deltapine	—	—	59.0	9/16	36	1
SG468RR	Sure-Grow	—	63.1	58.0	9/16	35	2
TVX4787RR (E)	Terral	—	—	56.3	9/20	36	1
AG4601	Asgrow	—	68.9	54.0	9/13	31	1
AP 4888RR	Agripro	—	—	54.0	9/16	30	1
DP 4750RR	Deltapine	—	—	53.2	9/20	35	2
SF477RR	Wilfarm	—	68.5	50.6	9/16	30	2
DK 4762RR	Delta King	—	59.4	50.0	9/13	38	1
AG4402	Asgrow	—	—	49.9	9/10	34	2
AG4602	Asgrow	—	64.1	49.9	9/16	29	1
3463NRR	Dyna-Gro	—	—	49.6	9/10	34	1
TVX4589RR (E)	Terral	—	—	48.9	9/13	32	2
TV4466RR	Terral	—	66.1	45.7	9/13	33	2
H4252RR	Hartz	—	60.8	45.5	9/13	38	2
TS 466RR	Terra	—	66.8	45.1	9/13	33	2
AG4702	Asgrow	—	65.7	43.6	9/13	33	1
HBK R4660	Hornbeck	—	—	43.2	9/13	38	1
AP 4602RR	Agripro	—	66.1	41.9	9/10	38	1
DG 4650RR	Delta Grow	—	—	38.9	9/13	32	1
Genesis M473RR	Genesis	—	—	34.9	9/16	34	2
Overall Mean		—	64.4	49.3			
LSD (.10)		—	5.7	8.9			
Error degrees of freedom		—	30	40			
CV (%)		—	6.3	13.2			
R^2 (%)		—	51	63			

[1]Sharkey clay soil. (E) = Experimental.
[2]Not planted in 1997.

Table 48. Roundup Ready Maturity Group IV Late Soybeans Planted May 11, 1999 (Clarksdale, Coahoma County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
SG498RR	Sure-Grow	—	63.7	71.3	9/16	32	1
Delta King 4868 RR	Delta King	—	—	68.0	9/16	32	2
S51-TI	NK	—	—	58.2	9/22	48	3
FFR RT517	Elite	—	—	57.5	9/20	30	1
USG 7489RR	USG	—	—	56.1	9/20	32	2
AG4601	Asgrow	—	—	53.4	9/16	33	2
H4998RR	Hartz	—	—	53.0	9/10	48	4
AG4902	Asgrow	—	—	52.9	9/16	32	2
9492	Pioneer	—	68.3	52.4	9/13	32	1
TS4979RR	Terra	—	—	52.0	9/22	49	4
HBK R4855	Hornbeck	—	—	50.8	9/16	33	2
WF480RR	Wilfarm	—	—	50.2	9/16	34	2
DK4965	Delta King	—	71.2	50.0	9/13	34	1
USG 7499	USG	—	—	49.0	9/16	32	3
AG4901	Asgrow	—	63.6	48.5	9/16	35	2
TV4890RR (E)	Terral	—	—	45.6	9/13	37	1
94B81	Pioneer	—	62.9	45.0	9/13	37	2
USG 7478nRR	USG	—	—	43.9	9/10	34	1
Overall Mean		—	62.5	53.2			
LSD (.10)		—	8.4	5.5			
Error degrees of freedom		—	24	34			
CV (%)		—	9.6	7.5			
R^2 (%)		—	68	84			

[1]Sharkey clay soil. (E) = Experimental.
[2]Not planted in 1997.

Table 49. Roundup Ready Maturity Group V Early Soybeans Planted May 11, 1999 (Clarksdale, Coahoma County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
S59-V6	NK	—	—	73.9	10/4	32	3
H5350RR	Hartz	—	48.7	72.4	9/30	31	2
95B53	Pioneer	—	—	69.6	9/25	27	1
95B41	Pioneer	—	69.4	69.2	9/23	32	1
DP 5644 RR	Deltapine	—	48.8	63.9	9/30	31	2
TV5486RR	Terral	—	—	62.9	10/1	43	4
AP 569RR/N	Agripro	—	—	61.8	10/4	34	1
HX506187RR (E)	Hartz	—	—	61.6	9/30	32	4
USG 7557RR	USG	—	—	61.1	9/30	29	1
HBK R5588	Hornbeck	—	61.9	60.5	9/27	31	2
AG5602	Asgrow	—	73.1	60.1	10/1	29	1
TS 558RR	Terra	—	54.7	59.5	9/30	27	2
TV 5666RR	Terral	—	50.8	58.7	9/29	32	3
USG 7528RR	USG	—	—	58.0	9/30	23	1
AG5401	Asgrow	—	69.7	57.7	9/27	33	1
DG 3541NRR (E)	Dyna-Gro	—	—	57.5	9/24	28	2
5664RR	Delta King	—	54.1	57.1	10/4	30	1
TV 5466RR	Terral	—	50.1	55.6	9/24	29	1
Genesis M541RR	Genesis	—	—	55.5	9/27	29	2
SF567RR	Wilfarm	—	62.9	54.5	9/30	34	1
FFR RT557	Elite	—	—	54.3	9/27	34	2
2517RR	Willcross	—	58.9	54.1	9/27	32	1
DG 5550RR	Delta Grow	—	—	53.7	9/27	31	1
USG 7547RR	USG	—	—	52.6	9/27	35	3
USG 7548nRR	USG	—	—	52.4	9/27	25	1
TS 556RR	Terra	—	57.4	48.1	9/28	31	2
FFR RT5485	FFR	—	—	47.7	9/23	24	1
AG5001	Asgrow	—	—	45.4	9/16	38	2
USG 7509RR	USG	—	—	44.6	9/20	35	3
9492	Pioneer	—	—	42.8	9/10	30	2
APX 9519RR (E)	Agripro	—	—	42.4	9/25	29	2
5263RR	Delta King	—	66.1	40.5	9/23	26	1
Overall Mean		—	58.5	56.6			
LSD (.10)		—	9.3	6.6			
Error degrees of freedom		—	56	62			
CV (%)		—	11.7	8.6			
R^2 (%)		—	69	83			

[1]Sharkey clay soil. (E) = Experimental.
[2]Not planted in 1997.

Table 50. Roundup Ready Maturity Group V Late Soybeans Planted May 11, 1999 (Clarksdale, Coahoma County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
S59-V6	NK	—	55.2	74.6	10/1	30	3
WF590RR	Wilfarm	—	—	74.2	10/4	35	2
DPX 5718RR (E)	Deltapine	—	—	73.1	9/30	34	3
DG 5950RR	Delta Grow	—	—	72.9	10/4	35	2
AG5701	Asgrow	—	—	72.9	10/4	30	1
Delta King 5762 RR	Delta King	—	—	71.2	10/4	33	1
USG 7599nRR (E)	USG	—	—	69.4	10/4	34	2
CX580CRR	DEKALB	—	—	69.1	9/30	31	1
Delta King 5661 RR	Delta King	—	—	68.7	9/27	31	1
HBK R5920	Hornbeck	—	—	68.5	10/4	34	2
DP 5806 RR	Deltapine	—	48.4	67.0	10/4	31	2
HBK XR6020 (E)	Hornbeck	—	—	67.0	10/6	32	2
5961RR	Delta King	—	61.8	66.4	10/4	31	2
DP 5960 RR	Deltapine	—	43.4	65.8	10/4	36	2
96B01	Pioneer	—	51.1	63.4	10/4	31	1
AG 5801	Asgrow	—	51.7	63.2	10/4	28	1
DPX 5915RR (E)	Deltapine	—	—	62.8	10/4	31	2
AG5802	Asgrow	—	—	61.4	10/6	32	1
AP 588RR	Agripro	—	58.1	60.9	9/30	30	1
CX556CRR	DEKALB	—	—	59.2	9/25	28	1
FFR RT587	Elite	—	—	59.0	10/4	28	1
AG 5901	Asgrow	—	54.7	56.6	10/6	31	1
7589 (E)	Wilcross	—	—	56.4	9/23	28	2
H5999RR	Hartz	—	56.6	54.6	10/6	28	1
USG 7577RR	USG	—	—	54.2	9/30	30	1
X9857RR (E)	NK	—	—	53.3	9/25	29	1
HBK R5884	Hornbeck	—	57.6	53.0	9/30	25	1
TS5879RR	Terra	—	—	52.6	10/4	24	1
CX550RR	DEKALB	—	60.7	50.9	9/27	30	2
SG597RR	Sure Grow	—	48.9	47.9	10/1	39	2
HX5060167RR (E)	Hartz	—	—	45.8	9/27	47	3
Overall Mean		—	53.4	62.5			
LSD (.10)		—	11.6	6.1			
Error degrees of freedom		—	50	60			
CV (%)		—	15.9	7.2			
R^2 (%)		—	59	85			

[1]Sharkey clay soil. (E) = Experimental.
[2]Not planted in 1997.

Location 3. Steve Williams' Farm, Olive Branch

Location Summary

Soybeans were planted under excellent moisture conditions, which continued until mid-season. From mid-season until harvest, the weather was very hot and dry. Pod set was extraordinary. However, dry conditions resulted in small beans and many flat pods. Many varieties matured unevenly, a factor that required multiple field visits. Variation in stand, due to heavy rain, caused the Maturity Group IV Late test to be lost.

Soil type: . . . . . Collins silt loam
Soil pH: 6.0
Soil fertility: . . . . . P–H+, K–H+
Fertilizer added: . . . . . 0-18-36 @ 200 lb/A
Herbicide application: . . . . Preemergence - Squadron @ 3 pt/A
Postemergence - Classic @ 0.5 oz/A + Select @ 8 oz/A
Planting date: . . . . . April 23
Harvest date: . . . . . Group IV - Sept. 24; Group V on Oct. 6

Rainfall Summary

	Inches
April	8.92
May	4.79
June	2.42
July	3.63
August	1.18
September	1.11
October	1.53
Total	23.58

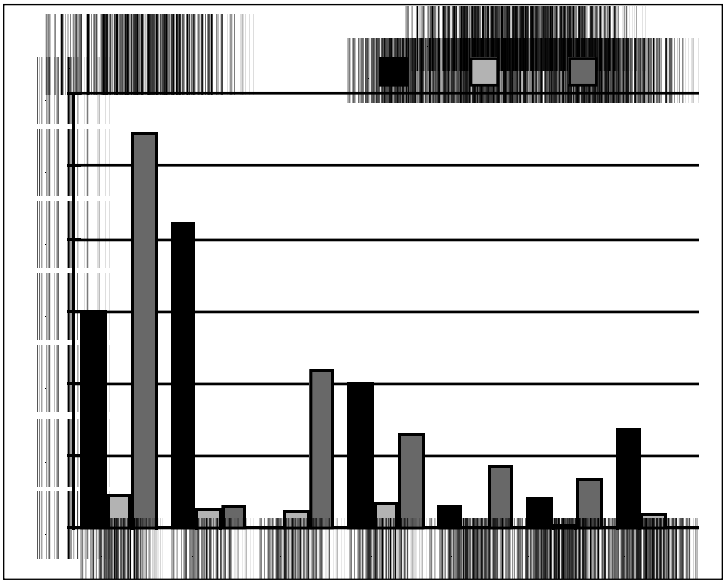

Table 51. Maturity Group IV Early Soybeans Planted April 23, 1999 (Olive Branch, DeSoto County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
DP 3478	Deltapine	74.3	64.1	52.3	9/18	41	2
AP 4882	Agripro	—	—	51.2	9/17	40	2
Delta King 4711	Delta King	—	—	50.3	9/15	43	2
DK4860	Delta King	—	—	49.8	9/14	35	1
DK XTJ684 (E)	Delta King	—	—	48.9	9/14	38	2
Delta King 4680	Delta King	—	—	48.3	9/16	36	1
AP 4880	Agripro	69.9	54.8	47.7	9/19	40	2
HBK 4600	Hornbeck	—	50.3	47.6	9/16	39	2
DP 4909	Deltapine	—	—	45.9	9/15	45	2
TV 4770	Terral	49.1	49.7	45.6	9/17	44	1
Dixie 478	Dixie	63.2	60.4	45.4	9/18	41	2
A4604	Asgrow	—	50.1	44.1	9/15	49	2
TN4-86	Public	50.7	46.1	41.2	9/11	43	2
SG468RR	Sure-Grow	—	—	36.8	9/18	49	1
Overall Mean		57.9	51.7	46.8			
LSD (.10)		5.3	7.4	6.1			
Error degrees of freedom		20	28	26			
CV (%)		6.5	10.3	9.4			
R^2 (%)		89	85	58			

[1]Collins Silt Loam Soil. (E) = Experimental.

Table 52. Maturity Group IV Late Soybeans Planted April 23, 1999 (Olive Branch, DeSoto County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
USG 7499	USG	—	—	54.3	9/19	43	2
TVX4881 (E)	Terral	—	—	53.4	9/25	35	2
9482	Pioneer	—	—	53.1	9/27	49	2
HBK 4891	Hornbeck	—	—	52.4	9/12	39	2
A4922	Asgrow	61.8	55.9	52.2	9/25	42	2
Delta King 4868 RR	Delta King	—	—	51.1	9/22	34	2
9511	Pioneer	66.5	46.9	50.3	9/20	47	2
FFR 514	FFR	—	—	49.6	9/21	31	1
FFR HT4985	FFR	—	—	48.6	9/20	35	1
R95-3235 (E)	Public	—	—	48.2	9/24	24	1
DP 3478	Deltapine	74.3	57.1	48.1	9/26	38	2
S51-00	NK	—	—	47.7	9/24	40	1
DK4965	Delta King	—	—	47.1	9/16	35	2
H4994RR	Hartz	—	—	46.9	9/24	25	1
SG498RR	Sure-Grow	—	—	45.9	9/20	31	1
Manokin	Public	70.8	39.1	45.9	9/21	25	1
Progeny 4900	Progeny	—	—	45.8	9/22	43	3
DK XTJ894RR (E)	Delta King	—	—	45.7	9/20	48	2
FFR 495	Elite	—	—	43.1	9/20	47	2
HBK 4890	Hornbeck	54.5	51.1	42.4	9/21	43	2
DK 4762RR	Delta King	—	—	42.2	9/17	42	2
TN4-94	Public	54.3	54.3	38.3	9/20	52	2
DT97-4290 (E)	Public	—	—	37.7	9/22	38	2
TS 490	Terra	65.6	46.5	37.7	9/25	50	3
TS 4792	Terra	—	42.9	36.7	9/25	40	2
TV 4975	Terral	51.4	53.6	36.1	9/21	46	3
DT97-4318 (E)	Public	—	—	34.6	9/20	47	2
RVS 499	Terra	—	—	28.3	9/17	59	2
Overall Mean		59.4	51.2	45.1			
LSD (.10)		7.4	9.3	7.7			
Error degrees of freedom		50	36	54			
CV (%)		9.1	13.2	12.5			
R^2 (%)		77	74	73			

[1]Collins Silt Loam Soil. (E) = Experimental.

Table 53. Maturity Group V Early Soybeans Planted April 23, 1999 (Olive Branch, DeSoto County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
95B33	Pioneer	—	60.7	52.0	10/2	33	1
A5704	Asgrow	—	46.1	50.0	10/4	29	2
ACCOMAC	Public	—	—	48.9	10/2	38	1
Progeny 5400	Progeny	—	—	47.7	10/5	34	1
DK 5850	Delta King	67.7	53.9	47.7	10/4	26	1
A5404	Asgrow	—	—	47.6	10/5	35	1
A5547	Asgrow	69.2	54.8	47.2	10/4	32	1
APX 9563 (E)	Agripro	—	—	46.9	10/5	22	1
DP 5354	Deltapine	64.9	52.3	45.9	10/2	35	2
TN5-95	Public	65.1	37.4	45.8	10/5	34	1
Essex RSV4 (E)	Public	—	—	45.5	10/6	28	1
RVS 549	Terra	57.8	44.3	45.5	10/5	27	1
Delsoy 5500	Public	60.5	41.3	45.3	10/5	34	1
NK X9952 (E)	NK	—	—	44.5	10/8	40	2
DK 5580	Delta King	—	—	44.1	10/4	28	1
9511	Pioneer	—	48.7	43.9	10/7	46	3
Progeny 5120N	Progeny	—	—	43.2	10/5	22	1
Essex	Public	—	39.3	42.7	10/5	30	1
Essex RSV1 (E)	Public	—	43.4	41.8	10/6	22	1
RVS Robin 5	Terra	71.7	41.8	40.8	10/4	26	1
NK X9955R (E)	NK	—	—	39.2	10/5	33	1
TS 520	Terra	—	32.8	39.1	10/7	41	3
Hutcheson	Public	74.4	48.8	39.1	10/2	27	1
5263RR	Delta King	—	—	38.7	10/5	23	1
5664RR	Delta King	—	—	37.9	10/1	36	1
HBK 5770	Hornbeck	66.9	36.4	36.4	10/5	34	2
TV5495	Terral	68.7	52.9	34.5	10/6	35	2
H5050	Hartz	75.5	43.8	34.0	10/7	34	2
RVS 529	Terra	70.1	49.2	27.3	10/8	54	3
HY 574	HyPerformer	76.2	51.6	26.2	10/2	35	1
Overall Mean		67.1	47.7	42.3			
LSD (.10)		5.8	8.7	7.7			
Error degrees of freedom		58	62	58			
CV (%)		6.3	13.4	13.3			
R^2 (%)		76	82	64			

[1]Collins Silt Loam Soil. (E) = Experimental.

Location 4. Prairie Research Unit, Prairie

Location Summary

Timely field preparation and excellent moisture resulted in good soybean emergence. Early growing conditions were favorable for good soybean yields. Short periods of stress to soybean growth and development were encountered during June and July. Extreme stress was encountered during the months of August and September. Hot, dry conditions for late summer significantly affected soybean yields. There were no major insect problems. Harvest conditions were excellent.

Soil type: . . . . . Houston clay
Soil pH: 7.3
Soil fertility: . . . . . P–M, K–H
Fertilizer added: . . . . . 0-20-20 @ 300 lb/A
Herbicide application: . . . . Preemergence -
Squadron @ 3 pt/A + Prowl @ .75 pt/A
Postemergence -
Select @ 8 oz/A + Crop oil @ 0.25% (v/v)
Storm @ .5 pt/A + Surfactant @ 0.25% (v/v)
Planting date: . . . . . April 21
Harvest date: . . . . . Group IV - Sept. 15; Group V - Oct. 7;
Group VI - Oct. 28

Rainfall Summary

	Inches
April	7.21
May	4.01
June	6.47
July	5.19
August	1.07
September	1.37
October	0.93
Total	26.25

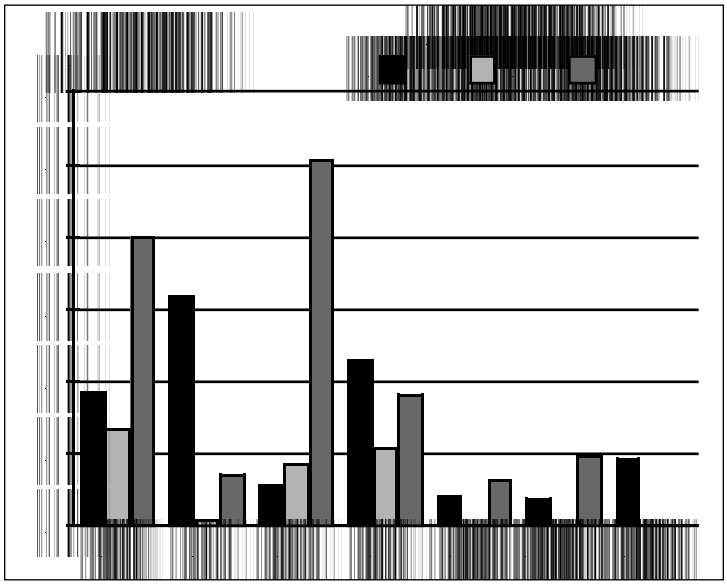

Table 54. Maturity Group IV Early Soybeans Planted April 22, 1999 (Prairie Research Unit, Prairie).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
DP 4909	Deltapine	—	—	37.2	9/8	33	2
AP 4880	Agripro	45.3	30.1	35.8	8/30	34	2
Delta King 4711	Delta King	—	—	34.8	9/1	31	1
AP 4882	Agripro	—	—	34.0	9/1	36	2
SG468RR	Sure-Grow	—	—	33.6	9/1	37	2
Dixie 478	Dixie	47.5	30.1	33.3	8/27	31	2
DP 3478	Deltapine	38.8	29.8	33.2	8/27	33	2
DK XTJ684 (E)	Delta King	—	—	31.5	9/1	32	1
DK4860	Delta King	—	—	30.3	8/27	26	1
Delta King 4680	Delta King	—	—	29.6	9/1	29	1
A4604	Asgrow	—	26.9	26.4	8/27	26	1
TV 4770	Terral	33.3	28.4	24.6	9/1	26	1
TN4-86	Public	40.5	30.1	22.8	8/27	45	2
HBK 4600	Hornbeck	—	27.1	21.4	8/30	24	1
Overall Mean		36.7	23.1	30.6			
LSD (.10)		5.7	8.2	5.5			
Error degrees of freedom		20	28	26			
CV (%)		11.1	25.6	13.0			
R^2 (%)		70	83	79			

[1]Houston Clay Soil. (E) = Experimental.

Table 55. Maturity Group IV Late Soybeans Planted April 22, 1999 (Prairie Research Unit, Prairie).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
DT97-4290 (E)	Public	—	—	41.0	8/30	29	2
HBK 4891	Hornbeck	—	—	36.5	8/27	30	2
TVX4881 (E)	Terral	—	—	35.2	8/30	34	2
Delta King 4868 RR	Delta King	—	—	34.7	8/27	29	1
DT97-4318 (E)	Public	—	—	34.6	9/6	34	2
DP 3478	Deltapine	38.8	30.5	34.3	8/30	28	2
DK XTJ894RR (E)	Delta King	—	—	32.4	8/30	30	2
TV 4975	Terral	46.1	43.7	31.9	9/8	41	2
DK4965	Delta King	—	—	31.9	9/1	21	1
9511	Pioneer	48.7	40.4	30.8	9/8	35	3
H4994RR	Hartz	—	—	29.9	9/8	24	1
FFR 514	FFR	—	—	29.8	9/8	26	1
S51-00	NK	—	—	29.8	9/13	34	1
Progeny 4900	Progeny	—	—	28.8	8/27	32	1
9482	Pioneer	41.1	33.5	28.7	8/27	32	1
FFR 495	Elite	—	—	28.4	9/1	32	1
TS 490	Terra	48.7	32.9	28.4	9/13	34	1
USG 7499	USG	—	—	28.2	9/6	32	1
A4922	Asgrow	36.8	22.8	28.0	8/27	30	1
Manokin	Public	49.6	26.1	27.7	9/8	21	1
RVS 499	Terra	—	—	25.4	9/13	40	3
SG498RR	Sure-Grow	—	—	25.2	9/8	27	1
FFR HT4985	FFR	—	—	24.9	9/6	22	1
TN4-94	Public	40.7	28.4	23.9	9/8	30	2
HBK 4890	Hornbeck	40.4	27.6	23.3	9/1	36	1
DK 4762RR	Delta King	—	—	22.1	8/30	29	1
TS 4792	Terra	—	30.3	19.5	8/27	31	1
R95-3235 (E)	Public	—	—	18.9	9/8	17	1
Overall Mean		40.8	31.2	29.1			
LSD (.10)		5.1	7.6	6.9			
Error degrees of freedom		48	36	54			
CV (%)		9.0	17.6	17.3			
R^2 (%)		75	81	73			

[1]Houston Clay Soil. (E) = Experimental.

Table 56. Maturity Group V Early Soybeans Planted April 22, 1999 (Prairie Research Unit, Prairie).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
Delsoy 5500	Public	36.9	29.6	38.1	9/20	26	1
Progeny 5400	Progeny	—	—	37.8	9/19	30	2
DK 5850	Delta King	34.3	34.9	37.6	9/20	27	1
RVS Robin 5	Terra	31.9	35.1	36.0	9/20	24	1
95B33	Pioneer	—	35.8	35.6	9/8	24	1
DK 5580	Delta King	—	—	35.4	9/19	30	1
TV5495	Terral	41.8	37.4	34.6	9/20	32	2
HY 574	HyPerformer	20.4	39.7	34.5	9/20	31	1
DP 5354	Deltapine	38.5	34.8	33.9	9/8	28	2
RVS 549	Terra	36.2	28.3	33.9	9/20	25	1
HBK 5770	Hornbeck	37.5	45.7	33.8	9/22	31	2
H5050	Hartz	44.3	36.7	33.4	9/20	39	2
APX 9563 (E)	Agripro	—	—	32.8	9/15	26	1
A5547	Asgrow	43.1	28.3	32.8	9/20	27	1
ACCOMAC	Public	—	—	31.5	9/17	31	1
Hutcheson	Public	32.2	31.7	30.4	9/17	23	1
TN5-95	Public	34.5	33.2	29.6	9/13	31	1
9511	Pioneer	—	39.7	29.3	9/7	37	2
5263RR	Delta King	—	—	28.6	9/13	23	1
NK X9955R (E)	NK	—	—	28.4	9/20	28	1
Progeny 5120N	Progeny	—	—	27.7	9/13	29	1
A5704	Asgrow	—	21.9	27.1	9/22	28	1
TS 520	Terra	—	33.9	26.7	9/17	36	3
A5404	Asgrow	—	—	25.7	9/13	29	1
Essex RSV1 (E)	Public	—	25.2	25.2	9/5	25	1
NK X9952 (E)	NK	—	—	24.3	9/6	30	1
Essex RSV4 (E)	Public	—	—	24.1	9/1	25	1
RVS 529	Terra	36.6	29.8	23.2	9/14	42	4
Essex	Public	—	21.3	23.1	9/5	26	1
5664RR	Delta King	—	—	20.1	9/27	31	1
Overall Mean		34.9	31.2	30.5			
LSD (.10)		8.1	7.4	4.8			
Error degrees of freedom		58	62	58			
CV (%)		17.0	17.3	11.5			
R^2 (%)		55	76	80			

[1]Houston Clay Soil. (E) = Experimental.

Table 57. Maturity Group V Late Soybeans Planted April 22, 1999 (Prairie Research Unit, Prairie).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
DT96-6840 (E)	Public	—	—	42.3	9/20	25	1
HBK 5990	Hornbeck	47.1	29.9	41.5	9/23	26	1
A5959	Asgrow	42.9	39.1	40.0	9/15	27	1
A5944	Asgrow	42.8	33.7	39.1	9/27	25	1
V91-3036 (E)	Public	—	37.1	38.9	9/20	26	1
9594	Pioneer	45.4	38.9	38.7	9/20	32	1
R95-798 (E)	Public	—	—	38.7	9/24	26	1
HLA572	Hartz	—	—	38.5	9/28	28	1
FFR 597	Elite	—	—	38.2	10/1	30	1
DK5995	Delta King	35.4	35.3	38.1	9/18	27	1
HBK 5991	Hornbeck	—	—	37.5	9/22	27	1
Hutcheson	Public	41.1	36.2	37.0	10/1	24	1
UARK-5896	Public	40.7	37.1	36.7	9/29	32	1
Bolivar	Public	—	41.4	36.3	9/13	39	2
UARK-5798	Public	48.1	43.8	36.1	9/27	32	2
DP 5655	Deltapine	—	—	36.0	9/17	36	2
S59-60	NK	39.7	34.3	35.4	9/24	26	1
RVS 77	Terra	32.8	33.4	35.3	10/1	28	1
TV5926	Terral	34.2	30.7	35.0	9/24	31	1
DT96-16809 (E)	Public	—	—	34.8	9/15	31	1
X9855 (E)	NK	—	—	34.1	9/15	28	1
DP 3588	Deltapine	42.8	39.7	33.7	9/20	41	2
Delta King 5661 RR	Delta King	—	—	32.8	9/17	26	1
Delsoy 5710	Public	—	—	32.4	9/25	31	1
Progeny 5700	Progeny	—	—	32.3	9/27	24	1
TV 5893	Terral	41.5	43.1	32.3	9/20	34	1
A5843	Asgrow	39.5	32.6	31.9	9/20	27	1
R95-2210 (E)	Public	—	—	31.4	9/27	26	1
SG597RR	Sure Grow	—	—	30.8	9/24	37	2
Delta King 5762 RR	Delta King	—	—	30.2	9/21	27	1
Caviness	Public	36.3	38.2	30.0	9/13	27	1
5961RR	Delta King	—	—	29.3	10/1	28	1
USG 7539	USG	—	—	29.2	9/20	24	1
FFR 594	FFR	—	—	27.7	9/22	29	1
DG 5810	Delta Grow	—	—	27.7	9/13	26	1
Overall Mean		39.2	37.2	34.9			
LSD (.10)		6.7	6.0	4.8			
Error degrees of freedom		52	56	68			
CV (%)		12.5	11.8	10.0			
R^2 (%)		75	79	72			

[1]Houston Clay Soil. (E) = Experimental.

Table 58. Maturity Group VI Soybeans Planted April 22, 1999 (Prairie Research Unit, Prairie).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
SC91-2007 (E)	Public	—	—	38.6	10/8	35	1
TN93-142-17 (E)	Public	—	—	38.6	10/1	29	1
9594	Pioneer	—	37.8	37.7	9/20	31	1
R92-1258 (E)	Public	53.7	45.1	37.7	10/4	34	1
9631	Pioneer	46.1	37.3	37.6	10/4	32	2
9692	Pioneer	—	34.5	37.5	10/18	33	1
SC89-147 (E)	Public	45.3	38.3	37.1	10/26	31	1
HBK 6600	Hornbeck	42.2	36.2	36.5	10/11	35	2
S62-62	NK	44.5	37.2	36.5	9/27	25	1
RVS 678	Terra	46.9	36.4	35.9	10/15	33	1
A6961	Asgrow	41.4	37.1	34.9	9/8	30	1
AG6201	Asgrow	—	—	34.9	10/4	31	2
Dillon	Public	37.9	34.6	34.0	10/1	34	1
Musen	Public	42.2	32.4	32.6	10/15	35	2
DPX 8S62RR (E)	Deltapine	—	—	32.4	9/27	37	2
AG 6101	Asgrow	—	—	30.2	10/1	33	1
Anand	Public	—	—	30.0	9/13	22	1
FFR 665	Elite	—	—	29.1	10/25	27	1
TS 608RR	Terra	—	—	24.4	9/20	28	1
AG6701	Asgrow	—	—	22.3	10/4	30	1
Overall Mean		43.0	34.0	33.9			
LSD (.10)		6.4	4.4	4.9			
Error degrees of freedom		72	42	38			
CV (%)		10.9	9.4	10.5			
R^2 (%)		62	75	75			

[1]Houston Clay Soil. (E) = Experimental.

Location 5. Mississippi State University, Starkville

Location Summary

Soybeans were planted on stale seedbeds. Good moisture at the time of planting and adequate rainfall got plants off to a very good start. Hot, dry weather in August and September had a significant impact on yield potential. Excellent harvest conditions allowed for timely harvest.

Soil type: Leeper silty clay
Soil pH: 8.1
Soil fertility: P–M, K–L
Fertilizer added: P @ 46 lb/A + K @ 60 lb/A
Herbicide application: Preemergence - Conventional: Squadron @ 3 pt/A + Roundup Ultra @ 32 oz/A
Roundup Ready: Roundup Ultra @ 32 oz/A
Postemergence - Conventional: Storm @ 1.5 pt/A; Storm @ 1.5 pt/A + Select @ 8 oz/A + COC @ 0.25% (v/v)
Roundup Ready: Roundup Ultra @ 1.5 pt/A (2 applications)
Planting date: Group IV - May 4; Group V & VI - May 13
Harvest date: Group IV - Sept. 16; Group V - Oct. 4 & 7; Group VI - Oct. 28

Rainfall Summary

	Inches
May	3.02
June	3.61
July	4.49
August	0.89
September	0.50
October	1.37
Total	13.88

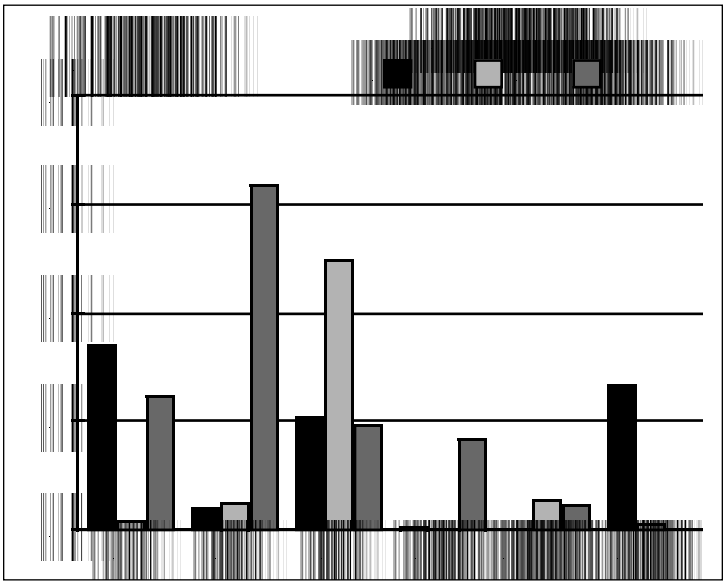

Table 59. Maturity Group IV Early Soybeans Planted May 4, 1999 (Mississippi State University, Starkville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
DP 4909	Deltapine	—	—	42.1	9/16	42	2
Delta King 4711	Delta King	—	—	35.1	9/16	33	2
AP 4882	Agripro	—	—	34.1	9/13	32	2
DK4860	Delta King	—	—	31.5	9/9	28	1
DK XTJ684 (E)	Delta King	—	—	30.7	9/13	38	2
HBK 4600	Hornbeck	—	48.6	30.3	9/13	32	1
TV 4770	Terral	18.4	40.1	29.6	9/15	38	2
AP 4880	Agripro	28.9	49.9	28.9	9/16	36	2
SG468RR	Sure-Grow	—	—	28.8	9/16	35	2
DP 3478	Deltapine	31.6	51.3	28.4	9/16	32	1
Delta King 4680	Delta King	—	—	27.7	9/15	30	1
TN4-86	Public	26.1	31.6	25.0	9/11	42	2
A4604	Asgrow	—	44.9	24.9	8/30	32	2
Dixie 478	Dixie	22.7	45.9	21.3	9/13	32	1
Overall Mean		27.1	41.7	29.9			
LSD (.10)		4.6	6.0	5.0			
Error degrees of freedom		20	28	26			
CV (%)		12.1	10.4	11.9			
R^2 (%)		78	77	76			

[1]Leeper Silty Clay Soil. (E) = Experimental.

Table 60. Maturity Group IV Late Soybeans Planted May 4, 1999 (Mississippi State University, Starkville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
DT97-4318 (E)	Public	—	—	48.5	9/20	36	3
9511	Pioneer	33.3	54.9	45.5	9/10	36	2
USG 7499	USG	—	—	44.9	9/24	38	2
TV 4975	Terral	34.1	48.4	43.8	9/16	48	3
H4994RR	Hartz	—	—	43.3	9/16	29	1
DT97-4290 (E)	Public	—	—	42.9	9/16	38	2
S51-00	NK	—	—	42.5	9/16	40	2
DP 3478	Deltapine	31.6	44.3	39.9	9/16	34	2
Manokin	Public	34.1	41.1	39.4	9/16	25	1
TS 490	Terra	36.3	49.5	39.1	9/16	46	2
9482	Pioneer	16.3	50.9	38.9	9/6	32	2
FFR 514	FFR	—	—	38.9	9/13	26	1
HBK 4890	Hornbeck	11.9	38.5	38.7	9/13	34	2
HBK 4891	Hornbeck	—	—	38.6	9/6	36	2
TVX4881 (E)	Terral	—	—	37.9	9/4	34	2
Delta King 4868 RR	Delta King	—	—	37.7	9/3	29	2
RVS 499	Terra	—	—	37.6	9/24	48	3
DK4965	Delta King	—	—	37.2	9/6	30	1
TN4-94	Public	18.5	43.3	36.7	9/13	35	2
FFR 495	Elite	—	—	36.7	9/13	34	2
DK XTJ894RR (E)	Delta King	—	—	36.0	9/13	35	2
A4922	Asgrow	24.5	41.5	35.1	9/8	36	2
FFR HT4985	FFR	—	—	34.2	9/10	28	1
R95-3235 (E)	Public	—	—	34.0	9/16	25	1
DK 4762RR	Delta King	—	—	33.8	9/13	39	2
SG498RR	Sure-Grow	—	—	33.3	9/13	27	1
TS 4792	Terra	—	33.4	31.2	9/9	49	2
Progeny 4900	Progeny	—	—	29.8	9/6	34	2
Overall Mean		24.0	45.7	38.4			
LSD (.10)		5.1	4.6	6.8			
Error degrees of freedom		50	36	54			
CV (%)		15.6	7.3	12.9			
R^2 (%)		88	79	57			

[1]Leeper Silty Clay Soil. (E) = Experimental.

Table 61. Maturity Group V Early Soybeans Planted May 13, 1999 (Mississippi State University, Starkville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
RVS Robin 5	Terra	49.8	42.1	48.3	9/29	25	1
Progeny 5400	Progeny	—	—	41.4	9/27	22	2
A5547	Asgrow	47.7	41.3	41.0	9/29	24	1
DK 5580	Delta King	—	—	40.2	9/27	24	1
DP 5354	Deltapine	51.2	43.3	39.8	9/20	27	2
HBK 5770	Hornbeck	54.8	41.6	39.5	9/30	31	2
DK 5850	Delta King	52.4	41.1	38.1	9/27	20	1
HY 574	HyPerformer	50.7	47.3	37.2	9/29	22	1
NK X9955R (E)	NK	—	—	34.6	9/25	29	1
TV5495	Terral	51.4	45.1	34.2	9/27	32	2
ACCOMAC	Public	—	—	34.1	9/20	26	1
Delsoy 5500	Public	47.1	36.9	33.2	9/27	25	1
RVS 549	Terra	43.8	39.1	33.0	9/25	23	2
H5050	Hartz	55.4	42.5	32.5	9/27	22	1
Hutcheson	Public	44.4	41.7	32.1	9/20	17	1
APX 9563 (E)	Agripro	—	—	31.7	9/25	19	1
Progeny 5120N	Progeny	—	—	31.6	9/25	23	1
A5404	Asgrow	—	—	31.0	9/20	20	1
NK X9952 (E)	NK	—	—	30.0	9/29	39	1
TN5-95	Public	37.7	38.9	29.8	9/20	28	1
Essex RSV1 (E)	Public	—	33.1	29.1	9/15	15	1
A5704	Asgrow	—	38.1	28.3	9/28	19	1
9511	Pioneer	—	45.9	28.0	9/20	39	2
5263RR	Delta King	—	—	27.6	9/29	17	1
TS 520	Terra	—	39.4	27.4	9/25	39	2
Essex RSV4 (E)	Public	—	—	24.3	9/15	16	1
95B33	Pioneer	—	45.9	23.4	9/18	19	1
Essex	Public	—	33.6	22.2	9/15	16	1
5664RR	Delta King	—	—	21.8	9/27	24	1
RVS 529	Terra	41.1	39.9	20.2	9/29	44	3
Overall Mean		45.3	40.2	32.2			
LSD (.10)		6.7	5.0	11.2			
Error degrees of freedom		60	62	58			
CV (%)		10.9	9.2	25.5			
R^2 (%)		71	76	50			

[1]Leeper Silty Clay Soil. (E) = Experimental.

Table 62. Maturity Group V Late Soybeans Planted May 13, 1999 (Mississippi State University, Starkville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
DT96-16809 (E)	Public	—	—	49.5	10/4	35	2
TV 5893	Terral	58.7	48.6	49.3	9/29	30	1
A5959	Asgrow	50.8	44.2	47.9	9/25	27	1
DP 5655	Deltapine	—	—	47.8	9/20	32	2
HLA572	Hartz	—	—	46.8	10/2	32	2
UARK-5798	Public	53.8	43.2	46.5	9/28	25	1
S59-60	NK	61.6	45.3	46.2	9/29	20	1
Bolivar	Public	—	47.4	45.1	9/25	34	2
DP 3588	Deltapine	59.1	43.1	44.6	10/1	38	2
DT96-6840 (E)	Public	—	—	44.1	9/29	20	1
9594	Pioneer	—	—	43.7	9/27	25	1
TV5926	Terral	45.4	36.1	43.5	10/4	28	1
HBK 5991	Hornbeck	—	—	43.0	9/29	21	1
HBK 5990	Hornbeck	55.3	42.5	42.9	10/4	26	1
FFR 597	Elite	—	—	42.1	10/4	32	2
Caviness	Public	47.2	39.4	41.3	9/27	26	1
R95-798 (E)	Public	—	—	41.2	10/1	18	1
DK5995	Delta King	52.7	45.6	40.7	9/27	26	1
RVS 77	Terra	45.2	43.6	39.3	10/4	22	1
V91-3036 (E)	Public	—	31.3	39.0	9/29	23	1
R95-2210 (E)	Public	—	—	38.8	10/2	21	1
SG597RR	Sure Grow	—	—	38.3	10/1	28	1
DG 5810	Delta Grow	—	—	38.2	9/27	24	1
X9855 (E)	NK	—	—	36.9	9/20	23	1
Progeny 5700	Progeny	—	—	36.8	10/2	21	1
Delsoy 5710	Public	—	—	36.1	9/29	23	1
FFR 594	FFR	—	—	35.8	10/4	32	1
Delta King 5762 RR	Delta King	—	—	35.6	9/27	16	1
A5843	Asgrow	54.1	38.5	33.9	9/27	22	1
UARK-5896	Public	49.1	37.7	33.2	10/4	21	1
A5944	Asgrow	50.7	41.2	32.9	10/4	20	1
5961RR	Delta King	—	—	30.5	9/29	19	1
Delta King 5661 RR	Delta King	—	—	30.5	9/27	18	1
USG 7539	USG	—	—	26.8	9/27	20	1
Hutcheson	Public	51.8	40.1	25.7	9/25	15	1
Overall Mean		52.4	41.0	39.8			
LSD (.10)		5.5	4.0	5.8			
Error degrees of freedom		52	56	68			
CV (%)		7.7	7.2	10.8			
R^2 (%)		75	79	77			

[1]Leeper Silty Clay Soil. (E) = Experimental.

Table 63. Maturity Group VI Soybeans Planted May 13, 1999 (Mississippi State University, Starkville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
9631	Pioneer	54.1	43.4	51.0	10/11	32	2
9692	Pioneer	—	37.9	48.5	10/21	27	1
RVS 678	Terra	53.2	38.1	48.4	10/19	31	2
SC89-147 (E)	Public	52.1	35.9	45.1	10/25	31	1
R92-1258 (E)	Public	53.2	43.9	44.7	10/14	27	1
Dillon	Public	55.6	39.7	44.5	10/11	26	1
TN93-142-17 (E)	Public	—	—	43.9	10/8	27	1
DPX 8S62RR (E)	Deltapine	—	—	43.4	10/11	31	2
SC91-2007 (E)	Public	—	—	43.3	10/25	34	2
FFR 665	Elite	—	—	43.1	10/21	24	1
A6961	Asgrow	57.7	35.8	42.9	10/25	37	2
Musen	Public	53.1	30.6	41.7	10/21	35	2
HBK 6600	Hornbeck	59.9	40.1	41.6	10/21	34	2
9594	Pioneer	—	42.6	41.4	10/6	28	1
S62-62	NK	50.6	41.8	39.7	10/11	25	1
AG6201	Asgrow	—	—	38.6	10/21	27	1
AG 6101	Asgrow	36.2	25.9	33.5	10/11	25	1
AG6701	Asgrow	—	—	32.7	10/25	28	1
Anand	Public	—	—	32.4	10/6	11	1
TS 608RR	Terra	36.2	25.9	31.1	10/6	19	1
Overall Mean		53.1	35.6	41.6			
LSD (.10)		4.1	6.6	5.1			
Error degrees of freedom		72	42	38			
CV (%)		5.7	13.4	8.9			
R^2 (%)		83	68	82			

[1]Leeper Silty Clay Soil. (E) = Experimental.

Table 64. Roundup Ready Maturity Group IV Early Soybeans Planted May 4, 1999 (Mississippi State University, Starkville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
AG4702	Asgrow	24.2	49.7	35.4	9/7	32	2
DK 4762RR	Delta King	—	34.3	35.1	9/13	45	2
AG4602	Asgrow	—	40.3	33.6	9/2	38	2
HBK R4660	Hornbeck	—	—	33.3	9/5	35	2
3463NRR	Dyna-Gro	—	—	32.8	8/30	33	2
DP 4750RR	Deltapine	—	—	32.5	9/16	38	2
DPX 8S47RR (E)	Deltapine	—	—	32.4	9/16	40	2
AP 4602RR	Agripro	—	45.6	30.8	9/2	39	2
DP 4690RR	Deltapine	—	—	29.8	9/13	32	2
SG468RR	Sure-Grow	—	49.7	28.9	9/15	35	2
SF477RR	Wilfarm	25.9	43.8	28.8	9/13	27	1
AG4601	Asgrow	22.7	49.9	28.2	9/7	31	2
AP 4888RR	Agripro	—	—	27.8	9/16	36	2
TVX4787RR (E)	Terral	—	—	26.6	9/16	34	2
H4252RR	Hartz	—	48.5	26.3	9/13	37	2
TVX4589RR (E)	Terral	—	—	26.1	8/25	30	1
AG4402	Asgrow	—	—	25.8	8/25	37	2
TS 466RR	Terra	—	44.5	24.6	9/9	37	1
Genesis M473RR	Genesis	—	—	23.8	8/30	35	2
TV4466RR	Terral	—	38.6	23.7	9/13	35	1
DG 4650RR	Delta Grow	—	—	20.6	8/30	32	2
Overall Mean		23.1	40.6	28.9			
LSD (.10)		4.4	8.4	7.1			
Error degrees of freedom		26	30	40			
CV (%)		13.7	15.0	17.9			
R^2 (%)		88	65	55			

[1]Leeper Silty Clay Soil. (E) = Experimental.

Table 65. Roundup Ready Maturity Group IV Late Soybeans Planted May 4, 1999 (Mississippi State University, Starkville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
S51-TI	NK	—	43.1	35.0	9/16	41	3
Delta King 4868 RR	Delta King	—	—	33.7	9/7	27	1
FFR RT517	Elite	—	—	33.4	9/13	26	1
SG498RR	Sure-Grow	—	45.6	31.4	9/16	25	1
DK4965	Delta King	—	—	31.4	9/6	31	2
USG 7489RR	USG	—	—	31.0	9/10	37	2
AG4902	Asgrow	—	—	30.9	9/6	28	1
TS4979RR	Terra	—	—	30.9	9/16	44	4
9492	Pioneer	—	53.2	30.7	9/7	25	1
WF480RR	Wilfarm	—	—	30.3	9/3	34	2
TV4890RR (E)	Terral	—	—	30.1	9/2	34	1
AG4601	Asgrow	—	—	28.7	8/30	31	1
H4998RR	Hartz	36.3	49.6	28.6	9/16	45	4
94B81	Pioneer	—	50.4	28.5	8/30	34	1
USG 7499	USG	—	—	27.2	9/2	36	1
USG 7478nRR	USG	—	—	26.8	9/2	32	1
AG4901	Asgrow	—	46.1	24.8	9/2	32	2
HBK R4855	Hornbeck	—	—	24.0	9/8	32	2
Overall Mean		23.1	47.3	29.8			
LSD (.10)		4.4	5.7	6.1			
Error degrees of freedom		26	24	34			
CV (%)		13.7	8.6	14.7			
R^2 (%)		88	77	46			

[1]Leeper Silty Clay Soil. (E) = Experimental.

Table 66. Roundup Ready Maturity Group V Early Soybeans Planted May 13, 1999 (Mississippi State University, Starkville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
TV5486RR	Terral	—	—	45.6	9/27	46	2
APX 9519RR (E)	Agripro	—	—	43.6	9/20	24	1
95B53	Pioneer	—	—	42.0	9/25	24	1
USG 7547RR	USG	—	—	41.5	9/20	32	1
AP 569RR/N	Agripro	—	—	41.3	10/4	24	1
FFR RT557	Elite	—	—	40.7	9/20	27	1
DG 5550RR	Delta Grow	—	—	39.9	9/18	24	1
HX506187RR (E)	Hartz	—	—	39.4	9/27	30	1
S59-V6	NK	—	—	38.9	9/29	23	1
H5350RR	Hartz	—	36.6	38.7	9/27	28	1
Genesis M541RR	Genesis	—	—	38.5	9/15	26	1
DP 5644 RR	Deltapine	42.1	38.9	38.4	9/18	28	1
TS 556RR	Terra	—	36.7	37.5	9/20	24	1
TV 5666RR	Terral	35.8	37.7	37.4	9/27	25	1
2517RR	Willcross	—	37.7	37.4	9/20	27	1
HBK R5588	Hornbeck	41.1	42.4	36.5	9/20	28	1
95B41	Pioneer	—	35.1	36.5	9/20	23	1
USG 7548nRR	USG	—	—	36.3	9/20	24	1
DG 3541NRR (E)	Dyna-Gro	—	—	35.4	9/15	19	1
TV 5466RR	Terral	42.1	36.6	35.3	9/18	25	1
AG5401	Asgrow	—	34.9	35.3	9/20	25	1
USG 7557RR	USG	—	—	34.9	9/20	27	1
AG5602	Asgrow	36.8	31.5	34.7	9/29	26	1
TS 558RR	Terra	—	36.4	33.4	9/27	30	1
USG 7528RR	USG	—	—	33.3	9/18	25	1
5263RR	Delta King	—	33.3	30.0	9/20	19	1
SF567RR	Wilfarm	37.3	30.7	29.0	9/27	24	1
AG5001	Asgrow	—	—	27.9	9/15	35	1
9492	Pioneer	—	—	26.4	9/15	31	1
FFR RT5485	FFR	—	—	26.0	9/20	21	1
5664RR	Delta King	—	22.5	25.8	10/4	30	1
USG 7509RR	USG	—	—	19.3	9/15	42	2
Overall Mean		38.5	36.5	35.5			
LSD (.10)		6.5	6.0	6.1			
Error degrees of freedom		44	56	62			
CV (%)		12.2	12.1	12.6			
R^2 (%)		53	61	73			

[1]Leeper Silty Clay Soil. (E) = Experimental.

Table 67. Roundup Ready Maturity Group V Late Soybeans Planted May 13, 1999 (Mississippi State University, Starkville).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997	1998	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
DPX 5915RR (E)	Deltapine	—	—	53.9	10/4	28	1
DPX 5718RR (E)	Deltapine	—	—	47.3	9/27	39	2
AP 588RR	Agripro	34.1	34.7	46.9	9/28	31	1
SG597RR	Sure Grow	43.1	39.2	46.7	10/4	34	1
DP 5806 RR	Deltapine	41.1	40.6	46.4	10/4	30	1
DP 5960 RR	Deltapine	42.2	40.8	46.1	10/4	31	1
H5999RR	Hartz	34.1	34.2	45.7	10/4	25	1
HBK XR6020 (E)	Hornbeck	—	—	45.1	10/4	32	2
AG5701	Asgrow	—	—	45.1	9/27	27	1
Delta King 5661 RR	Delta King	—	—	44.7	9/27	21	1
HBK R5920	Hornbeck	—	—	44.4	10/2	26	1
7589 (E)	Wilcross	—	—	43.5	9/15	28	1
USG 7577RR	USG	—	—	43.1	9/27	29	1
USG 7599nRR (E)	USG	—	—	43.0	10/4	27	1
96B01	Pioneer	—	40.5	41.4	10/1	28	1
DG 5950RR	Delta Grow	—	—	40.4	10/2	27	1
CX550RR	DEKALB	—	34.6	40.4	9/17	18	1
WF590RR	Wilfarm	—	—	40.1	9/27	24	1
AG 5901	Asgrow	36.1	36.9	40.1	10/4	32	1
CX556CRR	DEKALB	—	—	39.3	9/18	28	1
AG 5801	Asgrow	35.8	37.6	39.0	10/1	25	1
HX5060167RR (E)	Hartz	—	—	38.2	9/29	38	2
S59-V6	NK	39.8	46.3	38.1	10/4	27	1
X9857RR (E)	NK	—	—	37.7	9/28	26	1
CX580CRR	DEKALB	—	—	37.4	9/27	22	1
TS5879RR	Terra	—	—	37.4	10/1	22	1
FFR RT587	Elite	—	—	37.2	10/1	24	1
AG5802	Asgrow	—	—	37.2	10/1	26	1
5961RR	Delta King	—	26.5	36.5	9/27	25	1
HBK R5884	Hornbeck	42.6	38.2	35.4	10/4	21	1
Delta King 5762 RR	Delta King	—	—	27.6	9/29	26	1
Overall Mean		39.0	37.0	40.8			
LSD (.10)		4.7	4.3	9.2			
Error degrees of freedom		30	50	62			
CV (%)		8.7	8.5	16.5			
R^2 (%)		74	80	57			

[1]Leeper Silty Clay Soil. (E) = Experimental.

Location 6. Gaddis Farms, Bolton

Location Summary

Good field preparation and adequate moisture allowed for excellent early-season growth. Extremely dry conditions mid-season affected yields. Weather during harvest was ideal.

Soil type: . . . . . Oaklimeter silt loam
Soil pH: 5.9
Soil fertility: . . . . . P–H-, K–H+
Fertilizer added: . . . . . Preplant - N @ 24 lb/A + P @ 40 lb/A + K @ 40 lb/A + S @ 10 lb/A
Top Dressed - 34-0-0 @ 400 lb/A
Herbicide application: . . . . Preemergence - Squadron @ 3 pt/A
Postemergence - Fusion @ 12 oz/A
Planting date: . . . . . April 29
Harvest date: . . . . . Group IV - Sept. 2; Group V - Oct. 1; Group VI - Oct. 21

Rainfall Summary

	Inches
April	3.01
May	1.63
June	3.85
July	2.48
August	1.05
September	2.85
October	2.24
Total	17.11

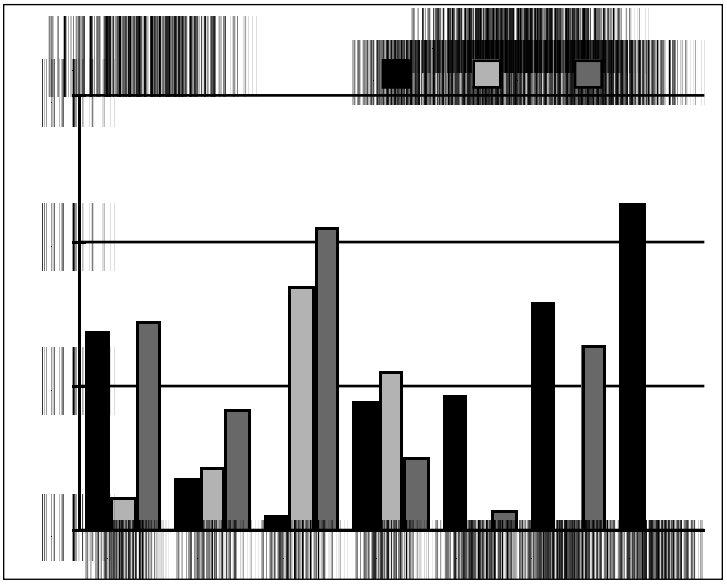

Table 68. Maturity Group IV Early Soybeans Planted April 29, 1999 (Bolton, Hinds County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998[2]	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
Dixie 478	Dixie	—	—	47.6	8/22	35	1
AP 4882	Agripro	—	—	43.7	8/22	28	1
DK XTJ684 (E)	Delta King	—	—	43.4	8/22	30	1
DP 3478	Deltapine	—	—	41.8	8/21	30	1
AP 4880	Agripro	—	—	39.7	8/23	32	1
TN4-86	Public	—	—	38.8	8/21	31	1
Delta King 4711	Delta King	—	—	37.1	8/22	28	1
SG468RR	Sure-Grow	—	—	36.8	8/25	29	1
DK4860	Delta King	—	—	35.6	8/21	25	1
DP 4909	Deltapine	—	—	35.6	8/31	39	1
HBK 4600	Hornbeck	—	—	35.3	8/23	23	1
Delta King 4680	Delta King	—	—	34.8	8/23	25	1
A4604	Asgrow	—	—	33.9	8/21	23	1
TV 4770	Terral	—	—	29.1	8/24	24	1
Overall Mean		—	—	38.1			
LSD (.10)		—	—	7.9			
Error degrees of freedom		—	—	26			
CV (%)		—	—	14.8			
R^2 (%)		—	—	55			

[1]Oaklimeter silt loam soil. (E) = Experimental.
[2]Not planted in 1997 and 1998.

Table 69. Maturity Group IV Late Soybeans Planted April 29, 1999 (Bolton, Hinds County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998[2]	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
DT97-4290 (E)	Public	—	—	39.5	8/25	30	1
TN4-94	Public	—	—	36.8	8/30	31	1
DP 3478	Deltapine	—	—	36.5	8/22	28	2
H4994RR	Hartz	—	—	36.0	8/30	29	1
TVX4881 (E)	Terral	—	—	35.5	8/21	31	2
Progeny 4900	Progeny	—	—	35.2	8/21	30	1
HBK 4890	Hornbeck	—	—	34.7	8/25	30	1
FFR 495	Elite	—	—	34.6	8/26	29	1
TV 4975	Terral	—	—	34.2	8/29	31	1
9511	Pioneer	—	—	33.8	8/30	35	2
9482	Pioneer	—	—	33.7	8/23	21	1
TS 4792	Terra	—	—	33.5	8/23	30	1
DK4965	Delta King	—	—	32.8	8/24	30	1
Delta King 4868 RR	Delta King	—	—	32.0	8/23	26	1
USG 7499	USG	—	—	31.7	8/30	26	1
FFR 514	FFR	—	—	31.4	8/29	18	1
A4922	Asgrow	—	—	30.9	8/21	26	1
DT97-4318 (E)	Public	—	—	30.9	8/25	28	1
RVS 499	Terra	—	—	30.4	9/3	47	2
DK XTJ894RR (E)	Delta King	—	—	30.3	8/21	29	1
HBK 4891	Hornbeck	—	—	29.2	8/21	24	2
DK 4762RR	Delta King	—	—	27.4	8/24	25	1
S51-00	NK	—	—	25.8	9/2	27	1
SG498RR	Sure-Grow	—	—	25.8	8/31	31	1
FFR HT4985	FFR	—	—	23.3	8/31	28	1
TS 490	Terra	—	—	22.5	8/31	31	1
Manokin	Public	—	—	15.2	9/2	14	3
R95-3235 (E)	Public	—	—	13.3	8/25	19	4
Overall Mean		—	—	30.6			
LSD (.10)		—	—	9.3			
Error degrees of freedom		—	—	54			
CV (%)		—	—	22.3			
R^2 (%)		—	—	58			

[1]Oaklimeter silt loam soil. (E) = Experimental.
[2]Not planted in 1997 and 1998.

Table 70. Maturity Group V Early Soybeans Planted April 29, 1999 (Bolton, Hinds County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998[2]	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
DK 5580	Delta King	—	—	37.5	9/8	27	1
Progeny 5400	Progeny	—	—	36.3	9/8	25	1
DK 5850	Delta King	—	—	35.2	9/7	25	1
RVS Robin 5	Terra	—	—	35.1	9/18	19	1
95B33	Pioneer	—	—	34.4	9/1	24	1
APX 9563 (E)	Agripro	—	—	34.3	9/7	27	1
Essex RSV4 (E)	Public	—	—	34.1	9/3	22	1
A5404	Asgrow	—	—	33.9	9/1	21	1
Essex RSV1 (E)	Public	—	—	33.0	9/1	23	1
TV5495	Terral	—	—	32.7	9/14	24	1
A5547	Asgrow	—	—	31.7	9/12	21	1
Hutcheson	Public	—	—	31.4	9/10	15	1
Progeny 5120N	Progeny	—	—	31.4	9/2	23	1
HY 574	HyPerformer	—	—	31.1	9/21	29	1
HBK 5770	Hornbeck	—	—	30.9	9/16	21	5
Delsoy 5500	Public	—	—	30.4	9/5	16	1
TN5-95	Public	—	—	29.6	9/2	25	1
A5704	Asgrow	—	—	29.4	9/3	21	1
NK X9952 (E)	NK	—	—	28.2	9/3	33	1
9511	Pioneer	—	—	27.1	8/31	32	1
ACCOMAC	Public	—	—	26.4	9/9	28	1
RVS 549	Terra	—	—	25.9	9/12	24	1
H5050	Hartz	—	—	25.7	9/13	31	1
NK X9955R (E)	NK	—	—	25.2	9/8	26	1
5664RR	Delta King	—	—	25.1	9/19	19	1
Essex	Public	—	—	25.1	9/1	18	1
5263RR	Delta King	—	—	24.8	9/1	19	1
RVS 529	Terra	—	—	24.4	9/7	53	2
DP 5354	Deltapine	—	—	20.6	9/2	24	1
TS 520	Terra	—	—	17.9	9/8	29	1
Overall Mean		—	—	29.6			
LSD (.10)		—	—	7.9			
Error degrees of freedom		—	—	58			
CV (%)		—	—	19.6			
R^2 (%)		—	—	58			

[1]Oaklimeter silt loam soil. (E) = Experimental.
[2]Not Planted in 1997 and 1998.

Table 71. Maturity Group V Late Soybeans Planted April 29, 1999 (Bolton, Hinds County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998[2]	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
DK5995	Delta King	—	—	35.4	9/8	25	1
A5944	Asgrow	—	—	32.4	9/20	27	1
DT96-16809 (E)	Public	—	—	31.8	9/2	30	1
Hutcheson	Public	—	—	31.2	9/8	17	1
V91-3036 (E)	Public	—	—	31.2	9/13	28	1
A5959	Asgrow	—	—	31.0	9/4	18	1
X9855 (E)	NK	—	—	29.5	9/9	25	1
TV5926	Terral	—	—	29.5	9/22	21	1
HBK 5991	Hornbeck	—	—	29.4	9/10	20	1
Caviness	Public	—	—	29.3	9/6	19	1
DT96-6840 (E)	Public	—	—	29.3	9/8	29	1
UARK-5896	Public	—	—	28.9	9/20	32	1
S59-60	NK	—	—	28.2	9/13	31	1
DP 5655	Deltapine	—	—	28.0	9/8	32	1
UARK-5798	Public	—	—	28.0	9/12	31	2
Bolivar	Public	—	—	27.8	9/8	33	1
R95-798 (E)	Public	—	—	27.7	9/16	23	1
A5843	Asgrow	—	—	27.5	9/11	29	1
HBK 5990	Hornbeck	—	—	27.4	9/11	27	1
R95-2210 (E)	Public	—	—	26.7	9/14	28	1
TV 5893	Terral	—	—	26.5	9/7	31	1
RVS 77	Terra	—	—	26.0	9/17	28	1
FFR 597	Elite	—	—	25.4	9/14	25	1
HLA572	Hartz	—	—	25.0	9/16	31	1
9594	Pioneer	—	—	24.7	9/3	21	1
Progeny 5700	Progeny	—	—	24.2	9/17	26	1
Delta King 5762 RR	Delta King	—	—	23.7	9/10	26	1
USG 7539	USG	—	—	22.6	9/10	27	1
DG 5810	Delta Grow	—	—	22.2	9/4	19	1
Delta King 5661 RR	Delta King	—	—	21.7	9/9	24	1
5961RR	Delta King	—	—	21.1	9/21	25	1
Delsoy 5710	Public	—	—	21.1	9/14	33	1
FFR 594	FFR	—	—	20.6	9/17	30	1
SG597RR	Sure Grow	—	—	20.3	9/14	33	1
DP 3588	Deltapine	—	—	19.5	9/8	38	1
Overall Mean		—	—	26.7			
LSD (.10)		—	—	7.2			
Error degrees of freedom		—	—	68			
CV (%)		—	—	19.7			
R^2 (%)		—	—	54			

[1]Oaklimeter silt loam soil. (E) = Experimental.
[2]Not Planted in 1997 and 1998.

Table 72. Maturity Group VI Soybeans Planted April 29, 1999 (Bolton, Hinds County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998[2]	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
9594	Pioneer	—	—	27.7	9/8	21	1
R92-1258 (E)	Public	—	—	27.3	9/22	31	1
AG 6101	Asgrow	—	—	26.5	9/14	22	1
S62-62	NK	—	—	25.1	9/10	23	1
FFR 665	Elite	—	—	23.1	10/16	17	1
Anand	Public	—	—	22.1	9/2	23	1
Dillon	Public	—	—	21.5	9/18	21	1
9631	Pioneer	—	—	20.3	9/19	31	1
RVS 678	Terra	—	—	20.3	10/11	20	1
A6961	Asgrow	—	—	19.7	10/12	23	1
9692	Pioneer	—	—	19.7	10/14	21	1
TN93-142-17 (E)	Public	—	—	18.0	9/17	28	1
HBK 6600	Hornbeck	—	—	17.9	10/9	22	1
SC89-147 (E)	Public	—	—	17.9	10/18	28	1
DPX 8S62RR (E)	Deltapine	—	—	17.8	9/16	27	1
SC91-2007 (E)	Public	—	—	17.7	10/21	22	1
AG6201	Asgrow	—	—	16.8	9/20	22	1
Musen	Public	—	—	15.3	10/18	28	1
AG6701	Asgrow	—	—	13.1	10/21	24	1
TS 608RR	Terra	—	—	10.1	9/2	23	1
Overall Mean		—	—	19.9			
LSD (.10)		—	—	7.3			
Error degrees of freedom		—	—	38			
CV (%)		—	—	26.8			
R^2 (%)		—	—	55			

[1]Oaklimeter silt loam soil. (E) = Experimental.
[2]Not planted in 1997 and 1998.

Location 7. Gibb Steele Farm, Longwood

Location Summary

Soybeans were planted stale into rice residue from the previous year. Excellent moisture and good temperatures provided for rapid emergence and uniform stands. The initial irrigation was followed by a heavy rain. Excess moisture caused some plant stress, but the beans recovered. Good growing conditions throughout the remaining growing season, followed by excellent weather for harvest, produced good yields.

Soil type: Sharkey clay
Soil pH: 7.2
Soil fertility: P–H, K–H+
Fertilizer added: None
Herbicide application: Preemergence - Conventional: Squadron @ 3 pt/A + Prowl @ 6 oz/A
Postemergence - Conventional: Scepter @ 2.8 oz/A
Roundup Ready: Roundup Ultra @ 24 oz/A
Irrigation: June 17, July 15, July 26, Aug. 6, Aug. 16, Aug. 28 (Group IV), and Sept. 10 (Group V)
Planting date: April 20
Harvest date: Group IV - Sept. 14; Group V - Sept. 28

Rainfall Summary

	Inches
April	0.75
May	2.89
June	2.70
July	1.50
August	0.50
September	.0
Total	8.34

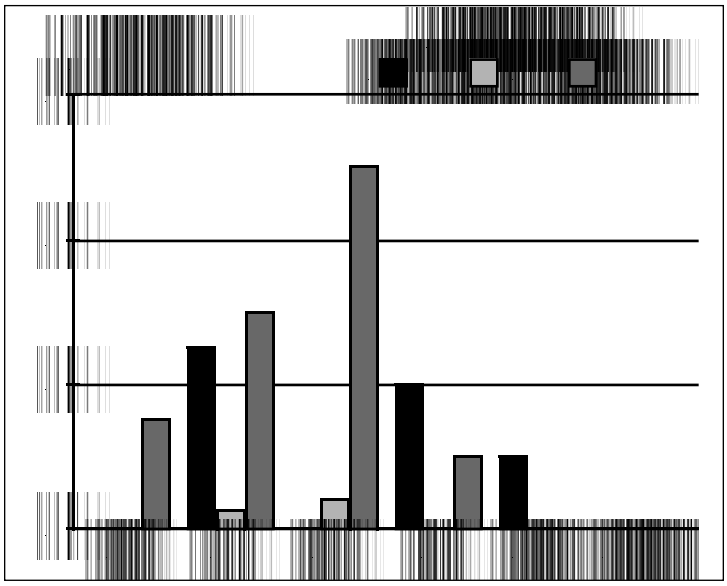

Table 73. Maturity Group IV Early Soybeans Planted April 20, 1999 (Longwood, Washington County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998[2]	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
DP 4909	Deltapine	—	—	66.5	9/6	31	4
SG468RR	Sure-Grow	—	—	58.9	9/6	30	1
TV 4770	Terral	—	—	53.9	9/6	28	1
Dixie 478	Dixie	—	—	53.1	9/6	26	1
AP 4880	Agripro	—	—	51.9	9/4	23	2
DP 3478	Deltapine	—	—	50.9	9/6	26	1
AP 4882	Agripro	—	—	50.7	9/6	26	1
HBK 4600	Hornbeck	—	—	50.4	9/3	20	1
Delta King 4680	Delta King	—	—	50.2	9/5	25	1
TN4-86	Public	—	—	49.9	9/4	32	2
Delta King 4711	Delta King	—	—	48.5	9/15	26	1
A4604	Asgrow	—	—	47.0	9/4	26	1
DK XTJ684 (E)	Delta King	—	—	46.4	9/6	27	1
DK4860	Delta King	—	—	46.2	9/3	23	1
Overall Mean		—	—	51.7			
LSD (.10)		—	—	7.1			
Error degrees of freedom		—	—	26			
CV (%)		—	—	9.8			
R^2 (%)		—	—	75			

[1]Sharkey clay soil. (E) = Experimental.
[2]Not planted in 1997 and 1998.

Table 74. Maturity Group IV Late Soybeans Planted April 20, 1999 (Longwood, Washington County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998[2]	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
S51-00	NK	—	—	72.7	9/6	34	3
TV 4975	Terral	—	—	71.3	9/13	35	4
9511	Pioneer	—	—	70.2	9/5	36	4
FFR 495	Elite	—	—	68.7	9/8	38	4
DT97-4318 (E)	Public	—	—	66.1	9/8	27	2
DT97-4290 (E)	Public	—	—	65.0	9/6	28	4
H4994RR	Hartz	—	—	63.9	9/6	22	1
Delta King 4868 RR	Delta King	—	—	63.7	9/5	23	1
HBK 4890	Hornbeck	—	—	63.4	9/7	29	1
SG498RR	Sure-Grow	—	—	62.5	9/6	22	1
FFR 514	FFR	—	—	62.5	9/6	23	1
TN4-94	Public	—	—	61.8	9/7	30	2
TS 490	Terra	—	—	59.5	9/13	38	4
DK4965	Delta King	—	—	59.0	9/5	28	1
A4922	Asgrow	—	—	58.5	9/5	30	1
FFR HT4985	FFR	—	—	58.4	9/8	20	1
9482	Pioneer	—	—	57.0	9/4	29	1
DK XTJ894RR (E)	Delta King	—	—	56.7	9/7	28	1
DP 3478	Deltapine	—	—	55.5	9/3	24	1
USG 7499	USG	—	—	54.8	9/7	26	1
RVS 499	Terra	—	—	54.6	9/5	53	5
Progeny 4900	Progeny	—	—	54.1	9/6	29	1
TVX4881 (E)	Terral	—	—	52.7	9/6	26	1
Manokin	Public	—	—	51.8	9/6	16	1
TS 4792	Terra	—	—	50.3	9/2	30	1
R95-3235 (E)	Public	—	—	49.9	9/5	18	1
HBK 4891	Hornbeck	—	—	47.6	9/5	28	1
DK 4762RR	Delta King	—	—	46.9	9/5	32	1
Overall Mean		—	—	59.2			
LSD (.10)		—	—	7.9			
Error degrees of freedom		—	—	54			
CV (%)		—	—	9.7			
R^2 (%)		—	—	71			

[1]Sharkey clay soil. (E) = Experimental.
[2]Not planted in 1997 and 1998.

Table 75. Maturity Group V Early Soybeans Planted April 20, 1999 (Longwood, Washington County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998[2]	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
DP 5354	Deltapine	—	—	66.0	9/14	24	2
9511	Pioneer	—	—	64.5	9/8	33	2
A5547	Asgrow	—	—	64.5	9/19	20	1
Delsoy 5500	Public	—	—	64.2	9/12	22	1
HY 574	HyPerformer	—	—	63.0	9/27	20	1
H5050	Hartz	—	—	62.3	9/20	22	1
DK 5850	Delta King	—	—	60.2	9/21	19	1
HBK 5770	Hornbeck	—	—	60.2	9/25	22	1
Progeny 5400	Progeny	—	—	60.1	9/19	17	1
RVS Robin 5	Terra	—	—	59.7	9/23	18	1
TV5495	Terral	—	—	59.6	9/22	24	1
Progeny 5120N	Progeny	—	—	59.3	9/12	21	1
DK 5580	Delta King	—	—	56.4	9/21	17	1
95B33	Pioneer	—	—	55.2	9/13	22	1
RVS 549	Terra	—	—	54.9	9/21	19	1
NK X9952 (E)	NK	—	—	54.5	9/13	27	2
A5404	Asgrow	—	—	54.4	9/8	20	1
RVS 529	Terra	—	—	52.5	9/17	44	4
NK X9955R (E)	NK	—	—	51.1	9/19	19	1
Essex RSV1 (E)	Public	—	—	49.9	9/10	17	1
5263RR	Delta King	—	—	49.4	9/12	19	1
ACCOMAC	Public	—	—	49.3	9/18	21	1
5664RR	Delta King	—	—	48.2	9/23	17	1
APX 9563 (E)	Agripro	—	—	48.1	9/20	15	1
Hutcheson	Public	—	—	47.8	9/19	17	1
TS 520	Terra	—	—	45.9	9/14	23	2
Essex RSV4 (E)	Public	—	—	41.8	9/10	15	1
Essex	Public	—	—	41.6	9/12	17	1
A5704	Asgrow	—	—	34.4	9/12	16	1
TN5-95	Public	—	—	30.0	9/12	17	1
Overall Mean		—	—	53.6			
LSD (.10)		—	—	7.9			
Error degrees of freedom		—	—	58			
CV (%)		—	—	10.8			
R^2 (%)		—	—	78			

[1]Sharkey clay soil. (E) = Experimental.
[2]Not Planted in 1997 and 1998.

Table 76. Maturity Group V Late Soybeans Planted April 20, 1999 (Longwood, Washington County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998[2]	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
HBK 5991	Hornbeck	—	—	71.8	9/23	21	1
9594	Pioneer	—	—	69.6	9/21	24	1
DT96-6840 (E)	Public	—	—	69.1	9/24	18	1
DT96-16809 (E)	Public	—	—	67.4	9/22	25	2
S59-60	NK	—	—	66.6	9/23	21	1
UARK-5798	Public	—	—	65.2	9/23	23	2
A5959	Asgrow	—	—	64.4	9/23	22	1
TV 5893	Terral	—	—	63.7	9/22	26	1
Bolivar	Public	—	—	61.9	9/18	26	1
R95-798 (E)	Public	—	—	61.1	9/24	23	1
A5944	Asgrow	—	—	61.0	9/27	22	1
Delsoy 5710	Public	—	—	60.8	9/28	21	1
DP 5655	Deltapine	—	—	60.6	9/24	26	2
DK5995	Delta King	—	—	60.6	9/23	19	1
Delta King 5762 RR	Delta King	—	—	60.4	9/24	13	1
TV5926	Terral	—	—	59.7	9/27	21	1
HBK 5990	Hornbeck	—	—	59.4	9/24	20	1
R95-2210 (E)	Public	—	—	59.4	9/25	20	1
V91-3036 (E)	Public	—	—	58.6	9/23	19	1
DG 5810	Delta Grow	—	—	57.6	9/22	18	1
HLA572	Hartz	—	—	57.4	9/27	22	1
DP 3588	Deltapine	—	—	57.1	9/23	33	2
FFR 597	Elite	—	—	56.6	9/25	19	1
UARK-5896	Public	—	—	56.3	9/23	22	1
Caviness	Public	—	—	55.6	9/19	20	1
A5843	Asgrow	—	—	55.2	9/22	20	1
Hutcheson	Public	—	—	54.6	9/22	17	1
Progeny 5700	Progeny	—	—	54.1	9/23	17	1
FFR 594	FFR	—	—	54.0	9/27	20	1
RVS 77	Terra	—	—	53.5	9/28	20	1
SG597RR	Sure Grow	—	—	51.2	9/23	27	2
Delta King 5661 RR	Delta King	—	—	49.6	9/17	17	1
5961RR	Delta King	—	—	49.5	9/29	17	1
X9855 (E)	NK	—	—	47.9	9/16	17	1
USG 7539	USG	—	—	46.0	9/20	16	1
Overall Mean		—	—	58.0			
LSD (.10)		—	—	4.7			
Error degrees of freedom		—	—	70			
CV (%)		—	—	5.9			
R^2 (%)		—	—	89			

[1]Sharkey clay soil. (E) = Experimental.
[2]Not Planted in 1997 and 1998.

Table 77. Roundup Ready Maturity Group IV Early Soybeans Planted April 20, 1999 (Longwood, Washington County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998[2]	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
SG468RR	Sure-Grow	—	—	62.1	9/8	31	2
AG4702	Asgrow	—	—	60.2	9/4	28	1
AP 4602RR	Agripro	—	—	60.0	9/2	33	1
TV4466RR	Terral	—	—	60.0	9/4	34	1
DP 4690RR	Deltapine	—	—	59.4	9/5	26	1
DPX 8S47RR (E)	Deltapine	—	—	59.1	9/7	32	2
AG4601	Asgrow	—	—	58.4	9/6	24	1
HBK R4660	Hornbeck	—	—	58.1	9/7	34	2
3463NRR	Dyna-Gro	—	—	57.0	9/3	28	1
TS 466RR	Terra	—	—	55.8	9/2	29	1
DK 4762RR	Delta King	—	—	55.6	9/5	30	1
AP 4888RR	Agripro	—	—	55.1	9/7	27	1
SF477RR	Wilfarm	—	—	54.5	9/6	25	1
TVX4787RR (E)	Terral	—	—	54.2	9/3	26	1
TVX4589RR (E)	Terral	—	—	53.5	9/4	30	1
AG4602	Asgrow	—	—	49.7	9/6	27	1
H4252RR	Hartz	—	—	45.4	9/6	28	1
AG4402	Asgrow	—	—	44.3	9/5	28	1
DP 4750RR	Deltapine	—	—	42.1	9/6	31	2
DG 4650RR	Delta Grow	—	—	40.7	9/1	27	1
Genesis M473RR	Genesis	—	—	36.4	9/1	22	1
Overall Mean		—	—	53.4			
LSD (.10)		—	—	6.0			
Error degrees of freedom		—	—	40			
CV (%)		—	—	8.1			
R^2 (%)		—	—	84			

[1]Sharkey clay soil. (E) = Experimental.
[2]Not planted in 1997 and 1998.

Table 78. Roundup Ready Maturity Group IV Late Soybeans Planted April 20, 1999 (Longwood, Washington County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998[2]	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
S51-TI	NK	—	—	70.6	9/7	48	4
SG498RR	Sure-Grow	—	—	68.5	9/6	21	1
Delta King 4868 RR	Delta King	—	—	67.8	9/6	27	2
9492	Pioneer	—	—	64.9	9/5	25	1
DK4965	Delta King	—	—	64.2	9/3	29	1
TS4979RR	Terra	—	—	61.7	9/5	38	5
USG 7478nRR	USG	—	—	59.2	9/2	30	1
TV4890RR (E)	Terral	—	—	58.9	9/3	32	1
AG4601	Asgrow	—	—	56.9	9/5	28	1
H4998RR	Hartz	—	—	56.7	9/6	36	5
WF480RR	Wilfarm	—	—	56.0	9/6	28	1
94B81	Pioneer	—	—	55.9	9/5	28	1
FFR RT517	Elite	—	—	55.7	9/7	24	1
AG4901	Asgrow	—	—	54.5	9/5	27	1
USG 7499	USG	—	—	52.5	9/5	30	1
USG 7489RR	USG	—	—	52.4	9/2	26	1
AG4902	Asgrow	—	—	52.4	9/7	30	1
HBK R4855	Hornbeck	—	—	46.3	9/6	28	1
Overall Mean		—	—	57.9			
LSD (.10)		—	—	11.3			
Error degrees of freedom		—	—	34			
CV (%)		—	—	14.2			
R^2 (%)		—	—	61			

[1]Sharkey clay soil. (E) = Experimental.
[2]Not planted in 1997 and 1998.

Table 79. Roundup Ready Maturity Group V Early Soybeans Planted April 20, 1999 (Longwood, Washington County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998[2]	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
95B53	Pioneer	—	—	77.6	9/14	24	1
HX506187RR (E)	Hartz	—	—	71.8	9/20	27	1
DP 5644 RR	Deltapine	—	—	69.4	9/18	25	1
H5350RR	Hartz	—	—	69.0	9/16	24	1
S59-V6	NK	—	—	68.1	9/13	26	1
95B41	Pioneer	—	—	67.0	9/16	24	1
AG5602	Asgrow	—	—	66.6	9/20	23	1
FFR RT557	Elite	—	—	63.5	9/18	28	1
2517RR	Willcross	—	—	62.1	9/4	29	1
USG 7557RR	USG	—	—	61.1	9/18	22	1
AP 569RR/N	Agripro	—	—	60.2	9/24	25	1
TV5486RR	Terral	—	—	60.2	9/21	23	1
DG 5550RR	Delta Grow	—	—	60.1	9/12	22	1
5664RR	Delta King	—	—	59.8	9/23	26	1
SF567RR	Wilfarm	—	—	59.8	9/18	21	1
HBK R5588	Hornbeck	—	—	59.7	9/13	23	1
TS 558RR	Terra	—	—	59.1	9/18	24	1
USG 7548nRR	USG	—	—	59.0	9/10	24	1
USG 7547RR	USG	—	—	58.6	9/17	22	1
DG 3541NRR (E)	Dyna-Gro	—	—	57.5	9/9	24	1
APX 9519RR (E)	Agripro	—	—	56.8	9/18	22	1
TS 556RR	Terra	—	—	56.8	9/12	27	1
TV 5666RR	Terral	—	—	55.9	9/24	25	1
AG5401	Asgrow	—	—	55.7	9/19	25	1
9492	Pioneer	—	—	55.3	9/9	42	3
USG 7528RR	USG	—	—	55.1	9/17	19	1
TV 5466RR	Terral	—	—	54.6	9/12	23	1
USG 7509RR	USG	—	—	52.3	9/12	25	1
Genesis M541RR	Genesis	—	—	51.1	9/10	22	1
5263RR	Delta King	—	—	49.6	9/14	15	1
FFR RT5485	FFR	—	—	48.1	9/12	21	1
AG5001	Asgrow	—	—	47.7	9/10	26	2
Overall Mean		—	—	59.7			
LSD (.10)		—	—	6.2			
Error degrees of freedom		—	—	62			
CV (%)		—	—	7.6			
R^2 (%)		—	—	79			

[1]Sharkey clay soil. (E) = Experimental.
[2]Not planted in 1997 and 1998.

Table 80. Roundup Ready Maturity Group V Late Soybeans Planted April 20, 1999 (Longwood, Washington County).[1]

Variety	Brand	Yield			Maturity date	Plant height	Lodging score
		1997[2]	1998[2]	1999			
		bu/A	*bu/A*	*bu/A*		*in*	
HBK XR6020 (E)	Hornbeck	—	—	69.7	9/27	28	1
S59-V6	NK	—	—	69.2	9/21	23	1
AG5701	Asgrow	—	—	68.8	9/20	23	1
WF590RR	Wilfarm	—	—	68.4	9/24	30	1
DPX 5718RR (E)	Deltapine	—	—	67.8	9/23	26	1
DPX 5915RR (E)	Deltapine	—	—	67.3	9/27	21	1
DG 5950RR	Delta Grow	—	—	66.4	9/22	25	1
HBK R5920	Hornbeck	—	—	65.7	9/22	24	1
Delta King 5762 RR	Delta King	—	—	65.6	9/21	24	1
DP 5806 RR	Deltapine	—	—	65.6	9/27	24	1
USG 7599nRR (E)	USG	—	—	65.5	9/23	28	1
AG 5801	Asgrow	—	—	64.9	9/25	21	1
DP 5960 RR	Deltapine	—	—	64.8	9/27	28	2
AP 588RR	Agripro	—	—	63.5	9/22	23	1
CX580CRR	DEKALB	—	—	63.4	9/22	24	1
AG5802	Asgrow	—	—	63.0	9/27	27	1
96B01	Pioneer	—	—	61.8	9/27	27	1
H5999RR	Hartz	—	—	61.8	9/25	23	1
Delta King 5661 RR	Delta King	—	—	61.5	9/22	21	1
AG 5901	Asgrow	—	—	60.3	9/27	26	1
USG 7577RR	USG	—	—	58.4	9/22	23	1
7589 (E)	Wilcross	—	—	56.2	9/4	24	1
X9857RR (E)	NK	—	—	56.2	9/18	20	1
TS5879RR	Terra	—	—	55.9	9/25	23	1
5961RR	Delta King	—	—	55.0	9/27	23	1
HBK R5884	Hornbeck	—	—	54.8	9/23	24	1
CX556CRR	DEKALB	—	—	54.6	9/10	24	1
SG597RR	Sure Grow	—	—	54.4	9/24	29	1
HX5060167RR (E)	Hartz	—	—	53.4	9/24	40	4
FFR RT587	Elite	—	—	52.5	9/21	23	1
CX550RR	DEKALB	—	—	51.7	9/19	24	1
Overall Mean		—	—	61.5			
LSD (.10)		—	—	5.0			
Error degrees of freedom		—	—	60			
CV (%)		—	—	6.0			
R^2 (%)		—	—	78			

[1]Sharkey clay soil. (E) = Experimental.
[2]Not planted in 1997 and 1998.

Plant Characteristics

Table 81. Plant Characteristics of Maturity Group IV Early Soybeans.

Variety	Brand	Color				Seeds[1]	Growth		Protein	Oil
		Bloom	Pubescence	Pod wall	Hilum		D/I[2]	RM[3]		
						no./lb			*%*	*%*
AP 4880	Agripro	purple	tawny	tan	black	3400	I	4.7	36.7	20.7
AP 4882	Agripro	purple	light tawny	tan	imp black	2900	I	4.7	36.7	21.0
A 4604	Asgrow	purple	tawny	tan	black	2500	I	4.7	37.2	20.3
DK 4860	Delta King	white	tawny	tan	black	2900	I	4.6	37.5	20.1
DK XTJ684 (E)[4]	Delta King	purple	gray	tan	imp black	3200	I	4.6	36.5	20.9
Delta King 4711	Delta King	purple	gray	tan	imp black	3100	I	4.7	36.7	20.8
Delta King 4680	Delta King	purple	gray	tan	buff	2700	I	4.7	37.6	20.1
DP 3478	Deltapine	purple	light tawny	tan	black	3000	I	4.7	36.6	20.9
DP 4909	Deltapine	white	tawny	tan	black	2400	I	4.9	37.4	20.0
Dixie 478	Dixie	purple	gray	tan	imp black	2600	I	4.7	37.4	20.4
HBK 4600	Hornbeck	white	tawny	tan	black	2700	I	4.7	37.7	19.7
SG 468RR	Sure-Grow	purple	tan	brown	black	2700	I	4.6	37.3	20.2
TV4770	Terral	purple	tawny	tan	black	3500	I	4.7	37.8	19.2
TN 4-86	Public	purple	tawny	tan	black	3000	I	4.6	37.8	20.2

[1]Represents an average number of seed per pound; seed may vary according to season and location.
[2]D = determinant; I = indeterminate
[3]Relative Maturity is an indicator of how this variety or line matures in relationship to other varieties or lines. The whole number refers to Maturity Groups IV, V, and VI. The decimal numbers convey the relative earliness or lateness. For example, 4.0 is very early in Group IV, while 4.9 is very late in Group IV.
[4](E) = Experimental.

Table 82. Plant Characteristics of Maturity Group IV Late Soybeans.

Variety	Brand	Color				Seeds[1]	Growth		Protein	Oil
		Bloom	Pubescence	Pod wall	Hilum		D/I[2]	RM[3]		
						no./lb			*%*	*%*
A 4922	Asgrow	white	tawny	tan	black	2700	I	4.9	37.2	20.1
DK 4965RR	Delta King	white	tawny	tan	imp black	2800	I	4.9	37.5	20.2
DK 4762RR	Delta King	white	tawny	tan	black	3100	I	4.7	37.5	20.3
Delta King 4868 RR	Delta King	white	gray	tan	imp black	2800	I	4.8	37.4	20.2
DK XTJ894RR (E)[4]	Delta King	purple	gray	tan	imp black	3500	I	4.8	36.9	20.5
DP 3478	Deltapine	purple	light tawny	tan	black	3000	I	4.7	36.4	20.8
Progeny 4900	Progeny	white	gray	tan	imp black	3300	I	4.9	37.0	20.1
FFR 495	FFR	white	gray	tan	buff	3400	I	4.9	37.1	19.9
FFR 514	FFR	purple	tawny	tan	black	3500	D	4.9	36.2	20.1
FFR HT4985	FFR	purple	tawny	tan	black	3800	D	4.9	36.0	20.0
H4994	Hartz	white	tawny	tan	black	2700	D	4.9	36.6	20.2
HBK 4890	Hornbeck	purple	gray	tan	buff	2500	I	4.8	37.1	19.9
HBK 4891	Hornbeck	purple	gray	tan	imp black	3100	I	4.7	36.8	20.5
S51-00	NK	purple	tawny	tan	black	2500	I	5.1	36.8	19.4
9482	Pioneer	white	tawny	tan	black	3300	I	4.8	36.4	20.6
9511	Pioneer	purple	gray	tan	imp black	2600	I	5.1	36.2	20.5
SG498RR	Sure Grow	white	tawny	tan	black	2900	I	4.9	37.0	19.8
RVS499	Terra	purple	gray	tan	imp black	3400	I	4.9	36.5	20.2
TS 490	Terra	purple	gray	tan	imp black	3500	I	4.9	37.2	19.7
TS4792	Terra	purple	tawny	tan	black	3500	I	4.7	37.7	19.9
TVX4881 (E)[4]	Terral	purple	gray	tan	imp black	3200	I	4.8	36.8	20.8
TV4975	Terral	purple	tawny	tan	black	2700	I	4.9	38.1	19.5
USG 7499	USG	purple	tawny	tan	black	3300	I	4.9	36.0	20.2
DT97-4290 (E)[4]	Public	purple	tawny	tan	black	3100	I	4.8	37.4	19.6
DT97-4318 (E)[4]	Public	purple	tawny	tan	black	3400	I	4.8	37.0	19.6
Manokin	Public	white	tawny	tan	black	3200	D	4.7	36.7	20.5
R95-3235 (E)[4]	Public	purple	tawny	tan	buff	3700	I	4.8	37.1	20.0
TN 4-94	Public	purple	gray	tan	imp black	3200	I	4.8	37.0	20.3

[1]Represents an average number of seed per pound; seed may vary according to season and location.
[2]D = determinant; I = indeterminate
[3]Relative Maturity is an indicator of how this variety or line matures in relationship to other varieties or lines. The whole number refers to Maturity Groups IV, V, and VI. The decimal numbers convey the relative earliness or lateness. For example, 4.0 is very early in Group IV, while 4.9 is very late in Group IV.
[4](E) = Experimental.

Table 83. Plant Characteristics of Maturity Group V Early Soybeans.

Variety	Brand	Color				Seeds[1]	RM[2]	Protein	Oil
		Bloom	Pubescence	Pod wall	Hilum				
						no./lb		*%*	*%*
APX 9563 (E)[3]	Agripro	white	tawny	tan	black	3800	5.6	36.4	20.1
HY 574	Agripro	purple	tawny	tan	brown	3000	5.7	36.1	20.1
A 5404	Asgrow	purple	tawny	tan	imp black	2900	5.4	36.3	20.3
A 5547	Asgrow	white	gray	tan	buff	2600	5.5	36.0	20.2
A 5704	Asgrow	purple	gray	tan	imp black	3100	5.5	36.5	20.5
DK 5664RR	Delta King	white	gray	tan	imp black	2900	5.6	36.2	20.2
DK 5263RR	Delta King	purple	tawny	tan	black	3200	5.2	36.5	20.3
DK 5850	Delta King	white	tawny	tan	black	3300	5.5	37.2	19.8
DK 5580	Delta King	white	tawny	tan	black	3300	5.5	37.0	19.9
DP 5354	Deltapine	purple	gray	tan	buff	3000	5.2	36.0	20.8
Progeny 5400	Progeny	purple	tawny	tan	black	3100	5.4	36.7	20.2
Progeny 5120N	Progeny	purple	tawny	tan	buff	2700	5.1	37.0	20.0
H5050	Hartz	white	tawny	tan	black	2800	5.5	36.9	19.9
HBK 5770	Hornbeck	white	tawny	tan	black	2800	5.7	35.5	20.4
NK X9952 (E)[3]	NK	purple	tawny	tan	black	2900	5.2	36.6	20.1
NK X9955R (E)[3]	NK	purple	tawny	tan	black	2900	5.5	37.5	19.9
95B33	Pioneer	purple	gray	tan	imp black	3400	5.3	37.1	19.6
9511	Pioneer	purple	gray	tan	imp black	2600	5.1	35.5	21.1
TS 520	Terra	white	tawny	brown	black	3200	5.2	36.6	20.0
RVS529	Terra	white	gray	tan	buff	3200	5.2	36.3	20.4
RVS549	Terra	purple	tawny	tan	brown	3400	5.7	36.0	20.3
RVS Robin-5	Terra	white	gray	tan	imp black	3600	5.7	36.1	20.3
TV5495	Terral	purple	tawny	tan	black	3500	5.4	37.9	19.2
ACCOMAC	Public	purple	tawny	tan	black	3100	5.4	36.2	20.9
Delsoy 5500	Public	white	tawny	tan	black	2700	5.5	36.4	20.5
Essex	Public	purple	gray	tan	imp black	3300	5.1	36.4	20.4
Essex RSV1 (E)[3]	Public	purple	gray	tan	imp black	3400	5.1	36.8	20.0
Essex RSV4 (E)[3]	Public	purple	gray	tan	imp black	3000	5.1	36.9	19.7
Hutcheson	Public	white	gray	tan	buff	3500	5.7	35.7	20.8
TN 5-95	Public	purple	tawny	tan	black	3400	5.5	37.3	19.3

[1]Represents an average number of seed per pound; seed may vary according to season and location.
[2]Relative Maturity is an indicator of how this variety or line matures in relationship to other varieties or lines. The whole number refers to Maturity Groups IV, V, and VI. The decimal numbers convey the relative earliness or lateness. For example, 5.0 is very early in Group V, while 5.9 is very late in Group V.
[3](E) = Experimental.

Table 84. Plant Characteristics of Maturity Group V Late Soybeans.

Variety	Brand	Color				Seeds[1]	RM[2]	Protein	Oil
		Bloom	Pubescence	Pod wall	Hilum				
						no./lb		*%*	*%*
A 5843	Asgrow	white	gray	brown	imp black	2300	5.8	36.2	20.4
A 5944	Asgrow	white	gray	tan	buff	2500	5.9	35.3	20.9
A 5959	Asgrow	white	gray	tan	buff	2900	5.9	36.2	20.0
Delta Grow 5810	Delta Grow	purple	tawny	tan	black	3000	5.8	35.7	20.2
DK 5961RR	Delta King	white	gray	tan	buff	2800	5.9	36.5	20.3
DK 5995	Delta King	white	gray	tan	imp black	3300	5.9	36.3	20.0
Delta King 5762 RR (E)[3]	Delta King	purple	tawny	tan	imp black	3000	5.7	36.2	19.6
Delta King 5661 RR (E)[3]	Delta King	white	gray	tan	imp black	3400	5.6	36.6	19.7
DP 3588	Deltapine	purple	tawny	tan	black	2500	5.8	36.8	19.8
DP 5655	Deltapine	purple	tawny	tan	black	2800	5.6	36.2	20.3
Progeny 5700	Progeny	purple	tawny	tan	black	2800	5.7	36.9	20.0
FFR 594	FFR	white	tawny	tan	buff	3100	5.9	36.4	20.5
FFR 597	FFR	white	gray	tan	buff	3100	5.9	37.0	20.1
HLA 572	Hartz	purple	tawny	tan	black	2700	5.7	35.9	20.5
HBK 5990	Hornbeck	purple	tawny	tan	black	2500	5.9	37.0	20.0
HBK 5991	Hornbeck	white	tawny	tan	black	2800	5.9	36.1	20.4
S59-60	NK	purple	tawny	tan	black	3000	5.9	37.1	19.8
NK X9855 (E)[3]	NK	white	gray	tan	imp black	3200	5.7	37.0	19.8
9594	Pioneer	white	gray	tan	buff	2400	5.9	36.3	20.6
SG 597RR	Sure Grow	white	tawny	tan	black	2600	5.9	36.9	20.1
RVS77	Terra	white	tawny	tan	black	3400	5.8	37.1	20.0
TV5893	Terral	purple	tawny	tan	black	3500	5.8	37.2	19.6
TV5926	Terral	white	tawny	tan	black	3500	5.9	36.1	19.6
USG 7539	USG	white	tawny	tan	black	3300	5.3	36.3	19.7
Caviness	Public	white	gray	tan	buff	2900	5.6	36.3	20.2
Delsoy 5710	Public	white	tawny	tan	black	3300	5.7	36.5	19.0
Bolivar	Public	purple	tawny	tan	black	3600	5.8	36.5	20.1
DT96-6840 (E)[3]	Public	white	gray	tan	buff	4200	5.8	36.6	20.0
DT96-16809 (E)[3]	Public	purple	tawny	tan	black	4200	5.8	37.0	20.0
Hutcheson	Public	white	gray	tan	buff	3500	5.7	35.7	20.6
R95-798 (E)[3]	Public	purple	tawny	tan	buff	3000	5.7	36.3	19.8
R95-2210 (E)[3]	Public	white	tawny	tan	buff	3500	5.7	36.2	19.8
UARK-5798	Public	white	tawny	tan	gray	2700	5.9	36.5	20.2
UARK-5896	Public	purple	tawny	tan	brown	2700	5.8	36.2	20.4
V91-3036 (E)[3]	Public	purple	gray	tan	imp black	3100	5.9	36.2	19.9

[1]Represents an average number of seed per pound; seed may vary according to season and location.
[2]Relative Maturity is an indicator of how this variety or line matures in relationship to other varieties or lines. The whole number refers to Maturity Groups IV, V, and VI. The decimal numbers convey the relative earliness or lateness. For example, 5.0 is very early in Group V, while 5.9 is very late in Group V.
[3](E) = Experimental.

Table 85. Plant Characteristics of Maturity Group VI Soybeans.

Variety	Brand	Color				Seeds[1]	RM[2]	Protein	Oil
		Bloom	Pubescence	Pod wall	Hilum				
						no./lb		*%*	*%*
AG 6101	Asgrow	purple	gray	tan	imp black	2400	6.1	37.2	20.1
AG 6201	Asgrow	white	gray	tan	imp black	3200	6.2	37.7	19.7
AG 6701	Asgrow	purple	gray	tan	imp black	2800	6.7	36.9	19.5
A 6961	Asgrow	white	gray	tan	buff	3200	6.9	36.7	19.4
DPX 8S62RR (E)[3]	Deltapine	purple	gray	tan	buff	2700	6.2	38.0	19.6
FFR 665	FFR	purple	tawny	tan	imp black	2600	6.6	36.4	20.2
HBK 6600	Hornbeck	purple	gray	tan	imp black	3200	6.6	38.2	19.4
S62-62	NK	white	tawny	tan	black	3000	6.2	37.8	19.8
9594	Pioneer	white	gray	tan	buff	2400	5.9	37.0	20.1
9631	Pioneer	purple	gray	tan	imp black	3000	6.3	36.9	19.8
9692	Pioneer	purple	tawny	tan	black	3100	6.9	37.0	20.5
RVS678	Riverside	Seg.	tawny	tan	brown	3100	6.7	37.3	19.7
TS608RR	Terra	white	gray	tan	imp black	3800	6.0	37.3	19.9
Anand	Public	purple	gray	tan	imp black	3100	5.5	37.1	20.1
Dillon	Public	purple	gray	tan	buff	2400	6.4	37.4	19.6
Musen	Public	white	gray	tan	buff	3500	6.9	37.1	19.2
R92-1258 (E)[3]	Public	Seg.	gray	tan	imp black	3400	6.1	37.5	19.8
SC89-147 (E)[3]	Public	white	gray	tan	buff	2900	6.6	36.9	19.9
SC91-2007 (E)[3]	Public	white	gray	tan	buff	2800	7.3	37.1	20.1
TN93-142-17 (E)[3]	Public	white	gray	tan	imp black	3000	6.0	37.0	19.6

[1]Represents an average number of seed per pound; seed may vary according to season and location.
[2]Relative Maturity is an indicator of how this variety or line matures in relationship to other varieties or lines. The whole number refers to Maturity Groups IV, V, and VI. The decimal numbers convey the relative earliness or lateness. For example, 6.0 is very early in Group VI, while 6.9 is very late in Group VI.
[3](E) = Experimental.

Table 86. Plant Characteristics of Roundup Ready Maturity Group IV Early Soybeans.

Variety	Brand	Color				Seeds[1]	Growth		Protein	Oil
		Bloom	Pubescence	Pod wall	Hilum		D/I[2]	RM[3]		
						no./lb			*%*	*%*
AP 4602RR	Agripro	white	tawny	tan	black	3300	I	4.4	37.6	20.1
AP 4888RR	Agripro	purple	light tawny	tan	imp black	3400	I	4.7	37.1	20.8
AG 4601RR	Asgrow	white	tawny	tan	black	3000	I	4.6	37.2	20.2
AG 4602RR	Asgrow	purple	tawny	tan	black	2700	I	4.6	36.8	20.6
AG 4702RR	Asgrow	white	tawny	tan	black	2800	I	4.7	37.1	20.4
AG 4402RR	Asgrow	white	tawny	tan	black	2500	I	4.4	36.1	21.2
Delta Grow 4650RR	Delta Grow	white	tawny	tan	black	3600	I	4.6	36.3	20.6
DK 4762RR	Delta King	white	tawny	tan	black	3100	I	4.7	37.2	20.3
DPX 8S47RR (E)[4]	Deltapine	purple	gray	tan	imp black	3100	I	4.7	37.4	20.6
DP 4690RR	Deltapine	purple	gray	tan	imp black	3300	I	4.7	37.2	20.6
DP 4750RR	Deltapine	purple	tawny	tan	black	3100	I	4.7	36.9	20.5
DG3463NRR	Dyna-Gro	white	tawny	tan	black	3300	I	4.8	37.4	20.1
Genesis M473RR	Genesis	white	tawny	tan	black	3600	I	4.7	36.9	20.4
H4252RR	Hartz	white	tawny	tan	black	2200	I	4.5	37.3	19.9
HBK R4660RR	Hornbeck	white	tawny	tan	black	3200	I	4.6	37.1	20.2
SG 468RR	Sure Grow	purple	tan	brown	black	2700	I	4.6	37.4	20.1
TS 466RR	Terra	white	tawny	tan	black	3500	I	4.6	37.6	19.9
TV4466RR	Terral	white	gray	tan	imp black	3700	I	4.4	36.4	20.3
TVX4589RR (E)[4]	Terral	white	gray	tan	imp black	3400	I	4.5	37.3	20.4
TVX4787RR (E)[4]	Terral	purple	gray	tan	imp black	3800	I	4.7	36.6	20.9
SF477RR	Wilfarm	white	tawny	tan	black	3400	I	4.7	37.3	20.1

[1]Represents an average number of seed per pound; seed may vary according to season and location.
[2]D = determinant; I = indeterminate.
[3]Relative Maturity is an indicator of how this variety or line matures in relationship to other varieties or lines. The whole number refers to Maturity Groups IV, V, and VI. The decimal numbers convey the relative earliness or lateness. For example, 4.0 is very early in Group IV, while 4.9 is very late in Group IV.
[4](E) = Experimental.

Table 87. Plant Characteristics of Roundup Ready Maturity Group IV Late Soybeans.

Variety	Brand	Color				Seeds[1]	Growth		Protein	Oil
		Bloom	Pubescence	Pod wall	Hilum		D/I[2]	RM[3]		
						no./lb			*%*	*%*
AG 4601RR	Asgrow	white	tawny	tan	black	3000	I	4.6	37.0	20.2
AG 4901RR	Asgrow	white	tawny	tan	black	3000	I	4.9	37.0	20.3
AG 4902RR	Asgrow	white	tawny	tan	black	2800	I	4.9	38.4	19.3
DK 4965RR	Delta King	white	tawny	tan	imp black	2800	I	4.9	36.9	20.4
Delta King 4868 RR	Delta King	white	gray	tan	imp black	2800	I	4.8	36.6	20.7
FFR RT517RR	FFR	purple	gray	tan	imp black	2900	D	4.9	37.7	19.9
H4998RR	Hartz	white	tawny	tan	black	2700	I	4.9	36.1	19.8
HBK R4855RR	Hornbeck	purple	gray	tan	imp black	3700	I	4.7	36.9	20.9
S51-T1RR	NK	white	gray	tan	buff	3200	I	5.1	37.1	20.2
94B81RR	Pioneer	white	tawny	tan	black	3600	I	4.8	36.1	21.2
9492RR	Pioneer	white	tawny	tan	black	2700	I	4.9	36.9	20.5
SG 498RR	Sure Grow	white	tawny	tan	black	2900	I	4.9	36.8	19.9
TS4979RR	Terra	white	tawny	tan	buff	3600	I	4.9	36.3	20.4
TV4890RR (E)[4]	Terral	white	tawny	tan	black	3400	I	4.8	37.5	20.0
USG 7478nRR	USG	white	tawny	tan	black	3100	I	4.7	37.3	20.3
USG 7489RR	USG	purple	gray	tan	imp black	3500	I	4.8	36.8	20.7
USG 7499RR	USG	white	tawny	tan	black	2900	I	4.9	36.9	20.4
WF480RR	Wilfarm	white	tawny	tan	black	2900	I	4.8	37.0	20.3

[1]Represents an average number of seed per pound; seed may vary according to season and location.
[2]D = determinant; I = indeterminate.
[3]Relative Maturity is an indicator of how this variety or line matures in relationship to other varieties or lines. The whole number refers to Maturity Groups IV, V, and VI. The decimal numbers convey the relative earliness or lateness. For example, 4.0 is very early in Group IV, while 4.9 is very late in Group IV.
[4](E) = Experimental.

Table 88. Plant Characteristics of Roundup Ready Maturity Group V Early Soybeans.

Variety	Brand	Color				Seeds[1]	RM[2]	Protein	Oil
		Bloom	Pubescence	Pod wall	Hilum				
						no./lb		*%*	*%*
APX 9519RR (E)[3]	Agripro	purple	tawny	tan	buff	3200	5.1	36.1	20.5
AP 569RR/N	Agripro	purple	tawny	tan	imp black	2900	5.6	36.4	20.0
AG 5001RR	Asgrow	purple	gray	tan	imp black	2800	5.0	36.9	20.3
AG 5401RR	Asgrow	white	gray	brown	buff	3300	5.4	35.7	20.4
AG 5602RR	Asgrow	white	gray	tan	buff	3500	5.6	36.1	19.8
Delta Grow 5550RR	Delta Grow	purple	tawny	tan	buff	2900	5.4	36.3	20.4
DK 5263RR	Delta King	purple	tawny	tan	black	3200	5.2	36.9	20.3
DK 5664RR	Delta King	white	gray	tan	imp black	2900	5.6	36.2	20.3
DP 5644RR	Deltapine	white	tawny	tan	black	3300	5.6	37.3	19.3
DG 3541NRR (E)[3]	Dyna-Gro	purple	tawny	tan	buff	3000	5.4	37.4	19.8
FFR RT5485RR	FFR	purple	tawny	tan	imp black	3000	5.3	36.3	20.4
FFR RT557RR	FFR	purple	gray	tan	buff	2800	5.5	36.3	20.4
Genesis M541RR	Genesis	purple	tawny	tan	buff	3000	5.4	37.1	20.0
H5350RR	Hartz	white	tawny	tan	black	3200	5.5	36.2	19.9
HX506187RR (E)[3]	Hartz	purple	tawny	tan	black	2800	5.1	36.3	20.2
HBK R5588RR	Hornbeck	purple	gray	tan	buff	2700	5.5	37.1	19.7
NK S59-V6RR	NK	purple	tawny	tan	black	2800	5.9	37.4	19.8
9492RR	Pioneer	white	tawny	tan	black	2700	4.9	36.6	20.4
95B41RR	Pioneer	white	tawny	tan	black	2800	5.4	36.2	20.7
95B53RR	Pioneer	white	tawny	tan	black	3300	5.5	36.5	19.6
TS556RR	Terra	purple	gray	tan	buff	2900	5.5	36.4	20.4
TS558RR	Terra	white	gray	tan	buff	4200	5.4	36.6	19.4
TV5466RR	Terral	purple	gray	tan	imp black	3100	5.4	36.9	20.1
TV5486RR	Terral	purple	tawny	tan	imp black	2400	5.4	36.7	20.2
TV5666RR	Terral	purple	gray	tan	buff	2900	5.6	36.8	20.0
USG 7528RR	USG	purple	tawny	tan	black	3400	5.2	36.0	20.7
USG 7548nRR	USG	purple	tawny	tan	buff	3600	5.4	36.0	20.6
USG 7547RR	USG	purple	tawny	tan	imp black	2900	5.4	36.9	20.0
USG 7557RR	USG	purple	tawny	tan	buff	3000	5.5	36.5	19.9
USG 7509RR	USG	white	tawny	tan	black	2300	5.0	36.7	20.5
SF567RR	SF Services	purple	gray	tan	imp black	3400	5.6	36.4	20.1
2517NRR	Willcross	purple	tawny	tan	buff	2800	5.1	36.4	20.4

[1]Represents an average number of seed per pound; seed may vary according to season and location.
[2]Relative Maturity is an indicator of how this variety or line matures in relationship to other varieties or lines. The whole number refers to Maturity Groups IV, V, and VI. The decimal numbers convey the relative earliness or lateness. For example, 5.0 is very early in Group V, while 5.9 is very late in Group V.
[3](E) = Experimental.

Table 89. Plant Characteristics of Roundup Ready Maturity Group V Late Soybeans.

Variety	Brand	Color				Seeds[1]	RM[2]	Protein	Oil
		Bloom	Pubescence	Pod wall	Hilum				
						no./lb		*%*	*%*
AP 588RR	Agripro	white	gray	tan	imp black	3200	5.8	36.5	19.8
AG 5701RR	Asgrow	white	tawny	tan	imp black	3400	5.7	36.7	19.3
AG 5801RR	Asgrow	purple	gray	tan	imp black	3600	5.8	35.9	19.9
AG 5802RR	Asgrow	white	gray	tan	buff	2600	5.8	36.2	20.5
AG 5901RR	Asgrow	white	gray	tan	buff	2900	5.9	36.0	20.3
CX550RR	DEKALB	purple	gray	tan	buff	3800	5.5	36.6	19.6
CX556CRR	DEKALB	purple	gray	tan	buff	2600	5.5	37.3	19.8
CX580CRR	DEKALB	white	gray	tan	imp black	3400	5.8	36.5	19.8
Delta Grow 5950RR	Delta Grow	purple	gray	tan	imp black	2600	5.9	35.9	19.8
DK5961RR	Delta King	white	gray	tan	buff	2800	5.9	36.1	20.3
Delta King 5661 RR	Delta King	white	gray	tan	imp black	3400	5.6	36.5	19.7
Delta King 5762 RR	Delta King	purple	gray	tan	imp black	3000	5.7	36.1	19.7
DPX 5718RR (E)[3]	Deltapine	white	tawny	tan	black	2800	5.8	35.9	20.2
DPX 5915RR (E)[3]	Deltapine	white	tawny	tan	black	3200	5.9	35.9	20.3
DP 5806RR	Deltapine	white	gray	tan	imp black	3600	5.8	36.4	19.9
DP 5960RR	Deltapine	white	gray	tan	imp black	3100	5.9	36.2	20.0
FFR RT587RR	FFR	purple	gray	tan	imp black	2700	5.8	36.3	20.4
H5999RR	Hartz	purple	gray	tan	buff	3000	5.9	35.8	20.3
HX 5060167RR (E)[3]	Hartz	purple	gray	tan	buff	2800	5.6	35.5	20.7
HBK R5884RR	Hornbeck	purple	gray	tan	buff	2900	5.8	37.1	19.9
HBK R5920RR	Hornbeck	purple	gray	tan	imp black	3000	5.9	36.1	19.8
HBK XR6020RR (E)[3]	Hornbeck	white	gray	tan	imp black	3400	6.0	36.6	19.8
NK S59-V6RR	NK	purple	tawny	tan	black	2800	5.9	36.9	19.7
NK X9857RR (E)[3]	NK	purple	tawny	tan	black	2900	5.7	37.4	19.8
96B01RR	Pioneer	white	gray	tan	buff	3000	6.0	36.2	19.8
SG 597RR	Sure-Grow	white	tawny	tan	black	2600	5.9	36.7	20.1
TS5879RR	Terra	purple	gray	tan	imp black	3100	5.8	36.1	20.4
USG 7577RR	USG	purple	gray	tan	imp black	3000	5.7	36.6	20.0
USG 7599nRR (E)[3]	USG	purple	gray	tan	imp black	2900	5.9	36.2	19.7
WF590RR	Wilfarm	purple	gray	tan	imp black	3000	5.9	36.2	19.6
7589RR (E)[3]	Willcross	purple	gray	tan	buff	3100	5.8	37.1	19.9

[1]Represents an average number of seed per pound; seed may vary according to season and location.
[2]Relative Maturity is an indicator of how this variety or line matures in relationship to other varieties or lines. The whole number refers to Maturity Groups IV, V, and VI. The decimal numbers convey the relative earliness or lateness. For example, 5.0 is very early in Group V, while 5.9 is very late in Group V.
[3](E) = Experimental.

Reaction to Pests and Herbicides

Tables in this section report data on the soybean varieties' reactions to common pests (the SMV/BPMV virus, Phytophthora root rot, cyst nematode, frogeye leafspot, stem canker) and to herbicides.

Disease Ratings. Disease ratings for Phytophthora root rot, frogeye leafspot, and stem canker were made by plant pathologists at Mississippi State University. Nematode reactions were reported by R.D. Riggs, a plant pathologist at the University of Arkansas.

The hydroponic technique used in this trial measures major gene resistance. Some varieties that are rated susceptible may have a high degree of field tolerance to Phytophthora root rot. Some varieties in this test are known not to have a major gene for Phytophthora resistance but were rated resistant. This is believed to be an expression of "field tolerance" (due to the use of a low inoculum potential).

Disease reactions were rated as: R = Resistant, M = Mixture (Resistant and Susceptible type reaction may be segregating or seed mixture); MR = Moderately Resistant; MS = Moderately Susceptible; S = Susceptible; VS = Very Susceptible; I = Intermediate (variation in response has been observed); and T = Tolerant.

Stem Canker Score. In addition to the disease ratings, each variety was also assigned a score for its reaction to stem canker. This score gives an average rating of 40 plants stuck with a toothpick of stem canker inoculum. Stem canker ratings convey the level of tolerance based on the score of the plants tooth picked: VS = 4.6 - 5.0; S = 2.0 - 4.5; MS = 1.5 - 1.9; MR = 1.2 - 1.4; R = 1.0 - 1.1. Some lines or varieties exhibited a range of reactions to stem canker. These findings are expressed as ranges in the tables (i.e., R-VS). In these ranges, letters in parentheses highlight a variety's predominant reaction. For example, "(R) -VS" means the variety ranged from resistant to very susceptible in its response; however, the predominant response was resistant. Varieties or lines that exhibited such a range were mixes or were still segregating.

Herbicide Ratings. Herbicide reaction ratings were based on a hydroponic screening of each variety to metribuzin (T = Tolerant, S = Susceptible).

Reniform Nematode Disease Ratings. These ratings are based on 1 year's data. Disease ratings and interpretations of data presented may change with additional experimentation and specific nematode populations. All nematode disease reactions are based on evaluations conducted in a greenhouse.

Reniform nematode disease ratings are presented in Tables 99-101. Disease reactions were rated as: R = Resistant, S = susceptible, and U = undetermined (mixed reaction).

Reniform nematode data were provided by Dr. Gary Lawrence, Nematologist in the MSU Entomology and Plant Pathology Department.

Table 90. Reaction of Maturity Group IV Early Soybeans to Pests and Herbicides.[1]

Variety	Brand	Virus SMV/BPMV	Phytophthora root rot				Cyst nematode		Frogeye leafspot	Stem canker		Herbicide reaction
			R2	R4	R3	R10	R3	R14		Rating	Score	
AP 4880	Agripro	R	R	M	—	R	S	S	MS	R	1.1	T
AP 4882	Agripro	—	R	M	—	R	—	—	MR	R	1.0	T
A 4604	Asgrow	R	M	S	—	S	—	—	S	R-S(R)	1.5	T
DK4860	Delta King	R	R	M	—	M	S	MS	S	R-S (S)	3.3	—
DK XTJ684 (E)	Delta King	—	R	M	M	R	—	—	MR	R	1.0	T
DK4711	Delta King	—	R	M	—	R	—	—	MS	R	1.0	T
DK4680	Delta King	—	R	M	R	R	—	—	I	R-S (MS)	2.8	T
DP 3478	Deltapine	R	—	—	—	R	S	S	S	R	1.0	T
DP 4909	Deltapine	—	M	R	—	S	—	—	S	R	1.0	T
Dixie 478	Dixie	R	M	S	—	R	S	S	MS	R	2.1	T
HBK 4600	Hornbeck	MR	R	R	M	S	MR	R	S	R-VS (VS)	4.3	T
SG 468RR	Sure-Grow	MR	—	R	—	—	—	—	S	R	1.0	T
TV4770	Terral	MR	M	S	R	M	R	MR	S	R	1.1	T
TN 4-86	Public	I	R	S	S	M	R	R	S	R	1.1	T

[1](E) = Experimental.

Table 91. Reaction of Maturity Group IV Late Soybeans to Pests and Herbicides.[1]

Variety	Brand	Virus SMV/BPMV	Phytophthora root rot				Cyst nematode		Frogeye leafspot	Stem canker		Herbicide reaction
			R2	R4	R3	R10	R3	R14		Rating	Score	
A 4922	Asgrow	R	R	R	—	R	R	R	MS	R-S(R)	2.6	T
DK4965RR	Delta King	—	—	—	—	—	—	—	—	—	—	T
DK4762RR	Delta King	R	—	R-S (S)	—	—	—	—	S	MS-VS(S)	3.4	T
DK4868RR	Delta King	—	—	—	—	—	—	—	S	S	4.0	T
DK XTJ894RR (E)	Delta King	—	R	R	—	R	—	—	S	R-S	2.3	T
DP 3478	Deltapine	—	R	M	—	R	S	S	S	R	1.0	T
Progeny 4900	Progeny	—	S	S	—	M	—	—	MS	R-S	2.6	T
FFR 495	Elite	R	R	M	—	M	—	—	MR	R	1.0	T
FFR 514	FFR	—	R	M	R	M	—	—	—	R	1.1	T
FFR HT4985	FFR	—	S	S	M	M	—	—	R	R-S	1.8	T
H4994	Hartz	R	R	—	—	S	R	R	R	R-S(M)	2.7	T
HBK 4890	Hornbeck	R	R	R	M	R	—	—	MR	R	1.2	T
HBK 4891	Hornbeck	—	R	R	M	R	—	—	S	R-S	1.2	I
S51-00	NK	MR	S	M	M	R	—	—	S	R-S(R)	1.8	T
9482	Pioneer	R	S	R	R	S	S	MS	I	R-S(R)	1.6	T
9511	Pioneer	R	M	S	S	M	S	S	S	R	1.0	T
SG498RR	Sure Grow	MR	—	R	—	—	—	—	MS	R	1.2	T
RVS499	Terra	—	M	S	M	R	S	S	I	R	1.0	T-S
TS 490	Terra	I	R	M	M	R	S	S	I	R	1.2	T
TS4792	Terra	R	R	R	S	S	—	—	S	R	1.0	T
TVX4881 (E)	Terral	—	—	—	—	—	—	—	—	—	—	I
TV4975	Terral	R	R	—	—	—	S	S	MR	R	1.0	—
USG 7499	USG	—	—	—	—	—	—	—	S	R-S	1.9	T
DT97-4290 (E)	Public	—	R	R	—	R	—	—	I	R-S	1.3	T
DT97-4318 (E)	Public	—	R	R	—	S	—	—	S	R-S	1.8	T
Manokin	Public	MR	R	S	—	R	R	S	MR	R	1.2	T
R95-3235 (E)	Public	—	R	S	M	R	—	—	I	R-S	1.7	T
TN 4-94	Public	MR	R	M	—	R	MR	MR	S	R-S(R)	1.9	T

[1](E) = Experimental.

Table 92. Reaction of Maturity Group V Early Soybeans to Pests and Herbicides.[1]

Variety	Brand	Virus SMV/BPMV	Phytophthora root rot				Cyst nematode		Frogeye leafspot	Stem canker		Herbicide reaction
			R2	R4	R3	R10	R3	R14		Rating	Score	
APX 9563 (E)	Agripro	—	R	R	—	R	—	—	MR	—	—	T
HY 574	Agripro	MR	R	M	R	R	MR	S	MS	R-S(R)	1.5	T
A 5404	Asgrow	—	R	M	—	S	—	—	—	R-S	3.3	T
A 5547	Asgrow	R	R	S	—	S	MR	R	MR	R-S(R)	1.9	T
A 5704	Asgrow	MR	M	S	—	R	—	—	R	R-S(R)	2.1	T
DK5664RR	Delta King	MR	—	R	—	—	—	—	R	R	1.1	T
DK5263RR	Delta King	R	—	R	—	—	—	—	S	MR	1.8	T
DK5850	Delta King	MR	R	R	S	R	MR	MR	MR	R-S(R)	1.7	T
DK5580	Delta King	—	—	—	—	—	—	—	—	—	—	—
DP 5354	Deltapine	R	M	M	R	M	—	—	MR	R-S(R)	1.7	T
Progeny 5400	Progeny	—	M	M	—	S	—	—	I	R-S	3.6	T
Progeny 5120N	Progeny	—	S	R	—	R	—	—	R	R	1.0	T
H5050	Hartz	MR	R	M	—	R	MS	MS	MR	R	1.1	T
HBK 5770	Hornbeck	R	R	R	R	R	—	—	S	R	1.0	T
NK X9952 (E)	NK	—	R	M	—	R	—	—	S	R-S	1.3	—
NK X9955R (E)	NK	—	R	M	—	R	—	—	S	R	1.0	—
95B33	Pioneer	MR	M	R	R	S	—	—	R	R-S	1.9	—
9511	Pioneer	—	M	S	S	M	S	S	S	R	1.0	T
TS 520	Terra	MS	R	R	M	S	S	MS	S	R	1.0	T
RVS529	Terra	MR	S	R	S	S	S	MS	MS	R	1.0	T
RVS549	Terra	MR	R	R	M	R	S	S	MS	MS	1.7	T
RVSRobin-5	Terra	MR	R	R	M	S	R	S	I	R-S	2.5	T
TV5495	Terral	—	M	R	R	M	R	S	S	R	1.0	T
ACCOMAC	Public	—	R	R	—	R	R	S	R	R-VS(S)	3.7	T
Delsoy 5500	Public	R	S	R	R	S	MS	MR	MR	R-S(R)	1.2	T-S
Essex	Public	R	S	S	—	S	—	—	MR	R-S(S)	2.3	—
Essex RSV1 (E)	Public	R	M	M	R	R	—	—	I	R-S(S)	2.2	—
Essex RSV4 (E)	Public	—	S	S	S	S	—	—	I	R-S	3.3	—
Hutcheson	Public	—	R	R	—	S	S	S	R	R	1.0	T
TN 5-95	Public	MR	R	S	—	M	R	MR	MS	R-S(S)	1.5	T

[1](E) = Experimental.

Table 93. Reaction of Maturity Group V Late Soybeans to Pests and Herbicides.[1]

Variety	Brand	Virus SMV/BPMV	Phytophthora root rot				Cyst nematode		Frogeye leafspot	Stem canker		Herbicide reaction
			R2	R4	R3	R10	R3	R14		Rating	Score	
A 5843	Asgrow	R	R	M	—	S	R	R	R	R	1.0	T
A 5944	Asgrow	R	R	M	—	M	S	S	I	R	1.0	T
A 5959	Asgrow	MR	R	M	—	S	—	—	MS	R-S(R)	1.6	T
Delta Grow 5810	Delta Grow	—	R	R	—	R	—	—	MR	R-MS(MS)	2.7	T
DK5961RR	Delta King	I	—	—	—	—	—	—	R	R	1.3	T
DK5995	Delta King	R	R	M	R	M	—	—	I	R-S(R)	2.0	T
DK5762RR (E)	Delta King	—	M	R	R	M	—	—	S	R-MS(MS)	2.9	T
DK5661RR (E)	Delta King	—	R	R	R	S	—	—	MR	R-S	2.7	T
DP 3588	Deltapine	R	R	—	M	R	R	S	R	R	1.1	T
DP 5655	Deltapine	MR	R	R	R	R	—	—	MS	R	1.2	T
Progeny 5700	Progeny	—	M	S	M	R	—	—	S	R-S(S)	3.2	—
FFR 594	FFR	—	R	M	—	S	—	—	—	R-S(S)	3.0	—
FFR 597	Elite	MR	R	R	R	M	—	—	R	R	1.1	T
HLA 572	Hartz	—	R	S	—	R	—	—	—	R	1.0	—
HBK 5990	Hornbeck	R	R	R	R	S	—	—	MR	R	1.1	—
HBK 5991	Hornbeck	—	M	R	R	M	—	—	R	R	1.3	T
S59-60	NK	R	R	R	R	M	R	R	S	R	1.2	T
NK X9855 (E)	NK	—	M	M	S	R	—	—	—	R-MS(R)	1.5	T
9594	Pioneer	MR	R	R	R	R	S	S	MS	R-S	2.0	T
SG 597RR	Sure Grow	MR	—	—	—	—	—	—	R	R	1.2	T
RVS77	Terra	MR	M	R	R	M	S	S	I	R	1.1	T
TV5893	Terral	R	S	R	M	S	R	S	S	R	1.0	T
TV5926	Terral	I	M	R	R	M	—	—	S	R	1.0	T
USG 7539	USG	—	M	M	S	R	—	—	S	R-S	2.6	T
Caviness	Public	R	M	R	—	—	—	—	MR	R-S(R)	1.8	T
Delsoy 5710	Public	—	S	M	S	S	—	—	—	R-MS	1.7	T
Bolivar	Public	MR	R	R	—	M	—	—	MS	R-S	2.2	T
DT96-6840 (E)	Public	—	M	M	—	R	—	—	MR	R-MS	1.7	T
DT96-16809 (E)	Public	—	R	R	—	R	—	—	MR	R-S	1.4	T
Hutcheson	Public	—	R	R	—	S	S	S	R	R	1.0	T
R95-798 (E)	Public	—	R	R	R	R	—	—	R	R-MS	1.7	T
R95-2210 (E)	Public	—	M	M	—	M	—	—	S	R-S(R)	1.5	T
UARK-5798	Public	—	R	R	R	R	—	—	R	MR	1.2	T
UARK-5896	Public	I	R	S	M	R	R	MS	I	R-S	2.3	S
V91-3036 (E)	Public	I	R	S	R	R	—	—	S	R	1.2	—

[1](E) = Experimental.

Table 94. Reaction of Maturity Group VI Soybeans to Pests and Herbicides.[1]

Variety	Brand	Virus SMV/BPMV	Phytophthora root rot				Cyst nematode		Frogeye leafspot	Stem canker		Herbicide reaction
			R2	R4	R3	R10	R3	R14		Rating	Score	
AG 6101	Asgrow	I	S	M	—	S	—	—	MR	R-S	2.5	—
AG 6201	Asgrow	—	M	R	—	M	—	—	S	—	—	T
AG 6701	Asgrow	—	R	M	—	S	—	—	MR	R	1.1	T
A 6961	Asgrow	—	R	S	—	S	R	R	VS	R	1.0	T
DPX 8S62RR (E)	Deltapine	—	R	M	R	R	—	—	—	R-S(S)	3.1	T
FFR 665	Elite	—	R	R	R	R	—	—	—	R-S(S)	3.0	—
HBK 6600	Hornbeck	—	M	R	R	M	—	—	—	R	1.0	—
S62-62	NK	—	R	R	R	R	MS	R	MR	R	1.3	T
9594	Pioneer	—	R	R	R	R	—	—	—	S	3.5	T
9631	Pioneer	—	M	R	M	M	S	S	R	R-S(S)	3.4	T
9692	Pioneer	—	M	M	M	S	MR	S	R	R	1.1	T
RVS678	Riverside	—	M	R	R	M	S	S	R	R-S(R)	1.3	T
TS608RR	Terra	R	M	R	M	M	—	—	I	R	1.3	T
Anand	Public	—	M	R	M	R	—	—	I	R-S(S)	3.3	T
Dillon	Public	—	M	S	—	M	S	S	S	R-S(R)	1.8	T
Musen	Public	—	R	S	—	S	—	—	R	R	1.0	T
R92-1258 (E)	Public	—	R	M	—	S	—	—	VS	R-S(R)	1.4	T
SC89-147 (E)	Public	—	R	S	—	M	—	—	R	R	1.2	T
SC91-2007 (E)	Public	—	R	R	—	S	—	—	MS	R	1.0	T
TN93-142-17 (E)	Public	—	R	R	M	M	—	—	MS	R-MS	2.0	T

[1](E) = Experimental.

Table 95. Reaction of Maturity Group IV Early Roundup Ready Soybeans to Pests and Herbicides.[1]

Variety	Brand	Virus SMV/BPMV	Phytophthora root rot				Cyst nematode		Frogeye leafspot	Stem canker		Herbicide reaction
			R2	R4	R3	R10	R3	R14		Rating	Score	
AP 4602RR	Agripro	R	M	R	—	M	—	—	S	R	1.2	T
AP 4888RR	Agripro	—	R	M	—	R	—	—	MR	—	—	T
AG 4601RR	Asgrow	R	—	—	—	—	—	—	S	R-S(S)	3.5	—
AG 4602RR	Asgrow	R	R	S	—	S	—	—	MS	R-S(M)	1.9	T
AG 4702RR	Asgrow	R	R	S	—	S	—	—	S	I	3.4	—
AG 4402RR	Asgrow	—	R	R	—	R	—	—	—	R	1.0	T
Delta Grow 4650RR	Delta Grow	—	M	S	R	R	—	—	MS	R	1.1	T
DK4762RR	Delta King	R	R	S	—	S	—	—	I	MS-VS(S)	3.4	T
DPX 8S47RR (E)	Deltapine	—	R	M	R	R	—	—	MR	R	1.0	T
DP 4690RR	Deltapine	—	R	R	—	R	—	—	S	R	1.0	T
DP 4750RR	Deltapine	R	R	M	—	R	—	—	MS	R	1.5	I
DG3463NRR	Dyna-Gro	R	R	M	R	M	—	—	I	R	—	T
Genesis M473RR	Genesis	—	M	S	R	M	—	—	MS	R	1.0	T
H4252RR	Hartz	R	—	—	—	—	—	—	S	R-S(R)	1.5	T
HBK R4660RR	Hornbeck	—	S	R	R	S	—	—	S	R	1.0	T
SG 468RR	Sure Grow	MR	S	M	S	R	—	—	S	R	1.0	T
TS 466RR	Terra	R	S	R	S	S	—	—	S	R	1.0	T
TV4466RR	Terral	MR	M	R	R	S	—	—	S	MS-VS(S)	4.1	T
TVX4589RR (E)	Terral	—	R	R	—	R	—	—	MR	R	1.1	T
TVX4787RR (E)	Terral	—	—	—	—	—	—	—	—	—	—	T
SF477RR	Wilfarm	MR	MS	—	—	S	—	—	MS	R-VS(S)	3.4	T

[1](E) = Experimental.

Table 96. Reaction of Maturity Group IV Late Roundup Ready Soybeans to Pests and Herbicides.[1]

Variety	Brand	Virus SMV/BPMV	Phytophthora root rot				Cyst nematode		Frogeye leafspot	Stem canker		Herbicide reaction
			R2	R4	R3	R10	R3	R14		Rating	Score	
AG 4601RR	Asgrow	R	S	R	—	R	—	—	S	R-S(S)	3.5	—
AG 4901RR	Asgrow	—	R	R	—	R	—	—	I	I	2.6	T
AG 4902RR	Asgrow	—	R	M	—	R	—	—	I	R-S	1.5	T
DK4965RR	Delta King	—	R	S	—	M	—	—	S	—	—	T
DK4868RR	Delta King	—	M	M	—	R	—	—	S	S	4.0	T
FFR RT517RR	FFR	R	M	M	—	R	—	—	R	R	—	T
H4994RR	Hartz	R	R	R	—	R	R	R	S	R-S(M)	2.7	T
H4998RR	Hartz	I	M	R	—	R	—	—	R	R-S(S)	2.8	T
HBK R4855RR	Hornbeck	—	M	R	R	R	—	—	S	R-S(S)	2.8	T
S51-T1RR	NK	MR	S	R	S	S	—	—	S	R-S	2.4	T
94B81RR	Pioneer	R	R	R	M	R	—	—	I	R-S(R)	1.6	T
9492RR	Pioneer	—	R	R	R	S	—	—	—	—	—	T
SG 498RR	Sure Grow	MR	M	R	R	M	—	—	MS	R	1.2	T
TS4979RR	Terra	—	M	M	S	R	—	—	S	R-S(R)	1.4	T
TV4890RR (E)	Terral	—	S	R	R	M	—	—	I	R	1.0	T
USG 7478nRR	USG	—	S	R	—	S	—	—	S	R-S	2.1	T
USG 7489RR	USG	—	R	M	—	R	—	—	S	R-S	2.2	T
USG 7499RR	USG	—	R	M	—	S	—	—	S	R-S	1.4	T
WF480RR	Wilfarm	—	M	M	M	M	—	—	S	R	1.0	T

[1](E) = Experimental.

Table 97. Reaction of Maturity Group V Early Roundup Ready Soybeans to Pests and Herbicides.[1]

Variety	Brand	Virus SMV/BPMV	Phytophthora root rot				Cyst nematode		Frogeye leafspot	Stem canker		Herbicide reaction
			R2	R4	R3	R10	R3	R14		Rating	Score	
APX 9519RR (E)	Agripro	—	R	M	—	S	—	—	R	R-S(R)	1.4	T
AP 569RR/N	Agripro	—	M	M	—	R	—	—	—	—	—	T
AG 5001RR	Asgrow	—	R	M	R	R	—	—	MR	R-S(R)	1.8	T
AG 5401RR	Asgrow	R	R	M	—	M	—	—	I	R-S(R)	2.5	T
AG 5602RR	Asgrow	R	R	S	—	S	—	—	MS	R	1.1	T
Delta Grow 5550RR	Delta Grow	—	M	M	—	M	—	—	R	R-S(R)	1.4	T
DK5263RR	Delta King	R	M	M	R	M	—	—	S	MR	1.8	T
DK5664RR	Delta King	MR	R	M	—	S	—	—	R	R	1.1	T
DP 5644RR	Deltapine	—	M	S	M	R	—	—	S	R-S(R)	1.9	—
DG 3541NRR (E)	Dyna-Gro	—	R	S	R	R	—	—	R	R	1.2	T
FFR RT5485RR	FFR	—	R	R	R	R	—	—	MR	S	4.0	T
FFR RT557RR	Elite	R	R	M	—	M	—	—	MR	R	1.0	T
Genesis M541RR	Genesis	—	R	S	M	R	—	—	MR	R-S(R)	1.7	T
H5350RR	Hartz	MR	R	R	—	R	—	—	I	R-S(R)	1.9	T
HX506187RR (E)	Hartz	—	R	S	—	R	—	—	R	S	4.0	T
HBK R5588RR	Hornbeck	MR	M	R	S	R	—	—	R	R	1.0	T
NK S59-V6RR	NK	MR	S	R	R	M	—	—	MS	R-S	2.5	T
9492RR	Pioneer	R	—	R	—	—	—	—	I	R-S(M)	2.8	T
95B41RR	Pioneer	MR	—	R	R	R	—	—	MR	R-S	2.4	T
95B53RR	Pioneer	—	M	R	R	S	—	—	R	R-S(R)	1.8	T
SF567RR	SF Services	R	S	M	—	M	—	—	MR	R-S(R)	1.3	T
TS556RR	Terra	R	M	M	R	S	—	—	MR	R	1.0	T
TS558RR	Terra	MR	S	R	M	M	—	—	I	R	1.0	I
TV5466RR	Terral	MR	M	S	—	R	—	—	R	R	1.2	T
TV5486RR	Terral	—	—	—	—	—	—	—	—	—	—	T
TV5666RR	Terral	R	M	R	M	M	R	MR	R	R-S(R)	1.7	T
USG 7509RR	USG	—	M	M	R	M	—	—	MS	R-S(R)	1.5	T
USG 7528RR	USG	—	R	M	—	R	—	—	R	R-S(R)	2.8	T
USG 7548nRR	USG	—	R	M	—	M	—	—	R	R-S(S)	3.0	T
USG 7547RR	USG	—	M	M	—	S	—	—	MR	R-S(R)	1.6	T
USG 7557RR	USG	—	R	S	—	R	—	—	R	R-S(R)	1.4	T
2517NRR	Willcross	—	R	S	—	R	—	—	MR	R	1.2	T

[1](E) = Experimental.

Table 98. Reaction of Maturity Group V Late Roundup Ready Soybeans to Pests and Herbicides.[1]

Variety	Brand	Virus SMV/BPMV	Phytophthora root rot				Cyst nematode		Frogeye leafspot	Stem canker		Herbicide reaction
			R2	R4	R3	R10	R3	R14		Rating	Score	
AP 588RR	Agripro	R	R	M	—	M	—	—	MR	R	1.0	T
AG 5701RR	Asgrow	—	R	M	—	S	—	—	I	R-S	2.7	T
AG 5801RR	Asgrow	I	R	M	—	S	—	—	S	R-S	2.5	—
AG 5802RR	Asgrow	—	R	S	—	M	—	—	S	R-S(R)	1.3	T
AG 5901RR	Asgrow	MR	R	S	—	S	—	—	R	R	1.0	—
CX550RR	DEKALB	MR	S	R	M	M	—	—	R	R-S	2.4	T
CX556CRR	DEKALB	—	R	M	S	R	—	—	R	R	1.0	T
CX580CRR	DEKALB	—	M	R	M	S	—	—	MS	R-S(S)	3.1	T
Delta Grow 5950RR	Delta Grow	—	R	M	R	M	—	—	S	MS	3.0	T
DK5961RR	Delta King	I	R	M	R	R	—	—	R	R	1.3	T
DK5661RR	Delta King	—	R	R	—	S	—	—	MR	R-S	2.7	T
DK5762RR	Delta King	—	M	R	R	M	—	—	S	R-MS(MS)	2.9	T
DPX 5718RR (E)	Deltapine	—	—	—	—	—	—	—	—	R-S(S)	3.1	
DPX 5915RR (E)	Deltapine	—	R	R	R	R	—	—	R	R-S	2.4	
DP 5806RR	Deltapine	MR	M	R	R	R	—	—	MS	R-S(R)	1.4	T
DP 5960RR	Deltapine	MR	R	R	R	R	—	—	MS	R-S(R)	1.7	T
FFR RT587RR	FFR	MR	R	S	M	M	—	—	MS	R-S(R)	1.7	T
H5999RR	Hartz	MR	M	R	—	R	—	—	MR	R	1.0	T
HX 5060167RR (E)	Hartz	—	R	M	—	R	—	—	R	R-MS(R)	1.2	T
HBK R5884RR	Hornbeck	MR	R	R	R	R	—	—	I	R-S	2.3	T
HBK R5920RR	Hornbeck	—	M	R	—	R	—	—	S	R-S	2.4	T
HBK XR6020RR (E)	Hornbeck	—	R	M	R	M	—	—	MS	R-S(R)	1.5	T
NK S59-V6RR	NK	MR	M	—	—	S	—	—	MS	R-S	2.5	—
NK X9857RR (E)	NK	—	R	R	M	M	—	—	—	MS	3.0	T
96B01RR	Pioneer	MR	—	R	—	—	—	—	S	R-S(S)	2.7	T
SG 597RR	Sure-Grow	MR	M	R	M	S	—	—	R	R	1.2	T
TS5879RR	Terra	—	R	M	R	R	—	—	—	R-MS(R)	1.5	T
USG 7577RR	USG	—	R	R	—	M	—	—	MR	—	—	T
USG 7599nRR (E)	USG	—	M	S	R	R	—	—	—	R-S(S)	2.6	T
WF590RR	Wilfarm	—	R	M	R	R	—	—	—	R-S(MS)	2.9	T
7589RR (E)	Willcross	—	—	—	—	—	—	—	—	—	—	—

[1](E) = Experimental.

Table 99. Disease Reaction of Selected Soybean Varieties in Maturity Group IV to the Reniform Nematode in the 1999 Mississippi Soybean Variety Trials.

Variety	Brand	Disease Rating
AG 4601 RR	Asgrow	U
AG 4702 RR	Asgrow	S
AG 4901	Asgrow	S
DK 4762 RR	Delta King	S
DP 4690 RR	Deltapine	S
DP 4750 RR	Deltapine	S
DP 4756 RR	Deltapine	S
DP 4909	Deltapine	S
HBK R 4660	Hornbeck	S
HBK R 4855	Hornbeck	S
P 9482	Pioneer	S
P 9492 RR	Pioneer	S
SG 468 RR	Sure-Grow	S
SG 498 RR	Sure-Grow	S
TN 4-94	Public	S
TS 4792	Terra	S
TVX 4787 RR	Terral	S
WF 480 RR	Wilfarm	S

Table 100. Disease Reaction of Selected Soybean Varieties in Maturity Group V to the Reniform Nematode in the 1999 Mississippi Soybean Variety Trials.

Variety	Brand	Disease Rating
AG 5602RR	Asgrow	R
DP 5354	Deltapine	R
DP 5644 RR	Deltapine	R
DP 5655	Deltapine	S
DP 5806 RR	Deltapine	R
HBK 5770	Hornbeck	R
HBK 5990	Hornbeck	S
P 95 B 33	Pioneer	S
P 95 B 41RR	Pioneer	S
SG 597 RR	Sure-Grow	S
TV 5486 RR	Terral	S
TV 5666 RR	Terral	S

Table 101. Disease Reaction of Selected Soybean Varieties in Maturity Group VI to the Reniform Nematode in the 1999 Mississippi Soybean Variety Trials.

Variety	Brand	Disease Rating
AG 6101	Asgrow	R
HBK 6600	Hornbeck	S
P 96 B 01RR	Pioneer	S

Public Varieties Entered

Arkansas Agricultural Experiment Station

Caviness
R92-1258 (Exp.)
R95-798 (Exp.)
R95-2210 (Exp.)
R95-3235 (Exp.)
UARK-5798
UARK-5896

University of Maryland Agricultural Experiment Station and USDA/ARS

Manokin

University of Missouri Agricultural Experiment Station

Anand
Delsoy 5500
Delsoy 5710

South Carolina Agricultural Experiment Station

Dillon
Musen
SC89-147 (Exp.)
SC91-2007 (Exp.)

Tennessee Agricultural Experiment Station

TN 4-86
TN 4-94
TN 5-95
TN93-142-17 (Exp.)

USDA Agricultural Research Service

Bolivar (was DT95-15091)
DT96-6840 (Exp.)
DT96-16809 (Exp.)
DT97-4290 (Exp.)
DT97-4318 (Exp.)

Virginia Agricultural Experiment Station

ACCOMAC
Essex
Essex RSV1 (Exp.)
Essex RSV4 (Exp.)
Hutcheson
V91-3036 (Exp.)

Commercial Varieties Entered

Agripro Seeds, Inc. **761 Walnut Knoll Lane** **Memphis, TN 38018**	AP 4602RR AP 4880 AP 4888RR APX 9563 (Exp.) AP 588RR	APX 9519RR (Exp.) AP 569RR/N HY 574 AP 4882 (was APX 94882)
Bell-Mo Seed Co., Inc. **P.O. Box 148** **Bell City, MO 63735**	2517NRR 7589RR (Exp.)	
Cache River Valley Development Corp. **P.O. Box 10, Highway 226** **Cash, AR 72421**	Dixie 478	
Delta Grow Seed **P.O. Box 219** **England, AR 72046**	Delta Grow 4650 RR Delta Grow 5550 RR Delta Grow 5810 Delta Grow 5950RR	
Delta King Seed Company **P.O. Box 970** **McCrory, AR 72101**	DK 4860 DK 5580 DK 5850 DK 5995 DK 4762RR DK4965RR DK 5263RR DK 5664RR	DK 5961RR Delta King 5762 RR (was DK XTJ675RR) Delta King 5661 RR (was DK XTJ665RR) Delta King 4868 RR (was DK XTJ584RR) DK XTJ894RR (Exp.) DK XTJ684 (Exp.) Delta King 4711(was DK XTJ784) Delta King 4680 (was DK XTJ974)
Deltapine Seed **P.O. Box 157** **Scott, MS 38772**	DP 3478 DP 3588 DP 4909 DP 5354 DP 5655 (was DPX8S56) DP 4690RR DP 4750RR	DP 5644RR DP 5806RR DP 5960RR DPX 5718RR (Exp.) DPX 5915RR (Exp.) DPX 8S47RR (Exp.) DPX 8S62RR (Exp.)
Genesis Ag Ltd. **P.O. Box 21085** **Lansing, MI 48909**	Genesis M473RR Genesis M541RR	
Hornbeck Seed Company **P.O. Box 472** **Dewitt, AR 72042**	HBK 4600 HBK 4890 HBK 4891 HBK 5770 HBK 5990 HBK 5991 HBK 6600	HBK R4660RR HBK R4855RR HBK R5588RR HBK R5884RR HBK R5920RR HBK XR6020RR (Exp.)
Monsanto Company **3100 Sycamore Road** **DeKalb, IL 60115**	A4604 A4922 A5404 A5547 A5704 A5843 A5944 A5959 A6961 AG4402RR AG4601RR AG4602RR AG4702RR	AG4901RR AG4902RR AG5001RR AG5401RR AG5602RR AG5701RR AG5801RR AG5802RR AG5901RR AG6101 AG6201 AG6701 CX550RR CX556CRR CX580CRR

Monsanto Company **3100 Sycamore Road** **DeKalb, IL 60115**	Hartz Variety H4252RR Hartz Variety H4994 Hartz Variety H4994RR Hartz Variety H4998RR Hartz Variety H5050	Hartz Variety H5350RR Hartz Variety H5999RR Hartz Variety HLA 572 Hartz Variety HX5060167RR (Exp.) Hartz Variety HX506187RR (Exp.)
Novartis Seeds, Inc **100 Sangria Drive** **Hattiesburg, MS 39402**	NK S51-00 NK S51-T1RR NK S59-60 NK S59-V6RR	NK S62-62 NK X9855 (Exp.) NK X9857RR (Exp.)
Novartis Seeds, Inc. **P.O. Box 729** **Bay, AR 72411**	NK X9952 (Exp.) NK X9955R (Exp.)	
Pioneer Hi-Bred International **North American Seed Division** **6767 Old Madison Pike** **Suite 110** **Huntsville, AL 35806**	Pioneer Variety 9482 Pioneer Variety 9492RR Pioneer Variety 9511 Pioneer Variety 95B33 Pioneer Variety 9594 Pioneer Variety 9631	Pioneer Variety 9692 Pioneer Variety 95B41RR Pioneer Variety 95B53RR Pioneer Variety 96B01RR Pioneer Variety 94B81RR
Progeny Ag Products **1529 Highway 193** **Wynne, AR 72396**	Progeny 4900 Progeny 5400 Progeny 5700 Progeny 5120N	
Sure-Grow Seeds, Inc. **7265 Highway 9 South** **Centre, AL 35960**	SG468RR SG498RR SG597RR	
Terra International, Incorporated **P.O. Box 171376** **655 Quince Road, Suite 202** **Memphis, TN 38187**	RVS77 RVS499 RVS529 (was RVS529I) RVS549 RVS Robin 5 RVS678 TS490 (was RVS490) TS466RR	TS520 (was RVS520) TS556RR TS4792 TS558RR (was RVS X08RR) TS608RR (was RVS X037RR) TS4979RR TS5879RR
Terral-Norris Seed Company **P.O. Box 826** **Lake Providence, LA 71254**	TV4770 TV4975 (was TVX4975) TV5495 TV5893 TV5926 TV4466RR TVX4787RR (Exp.)	TV4890RR (Exp.) TV5666RR TV5466RR TV5486RR TVX4881 (Exp.) TVX4589RR (Exp.)
UAP Mid South **(Formerly Tri-State Delta Chemical, Inc.)** **57 Germantown Court, Suite 200** **Cordova, TN 38018**	DG 3463RR DG 3541NRR (Exp.)	
UniSouth Genetics **2640-C Nolensville Road** **Nashville, TN 37211**	USG 7478nRR USG 7528RR USG 7548nRR USG 7547RR USG 7557RR USG 7577RR	USG 7499 USG 7489RR USG 7499RR USG 7509RR USG 7599nRR (Exp.) USG 7539
Wilfarm LLC **6077 Primacy Parkway #126** **Memphis, TN 38119**	SF477RR SF567RR	WF480RR WF590RR

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