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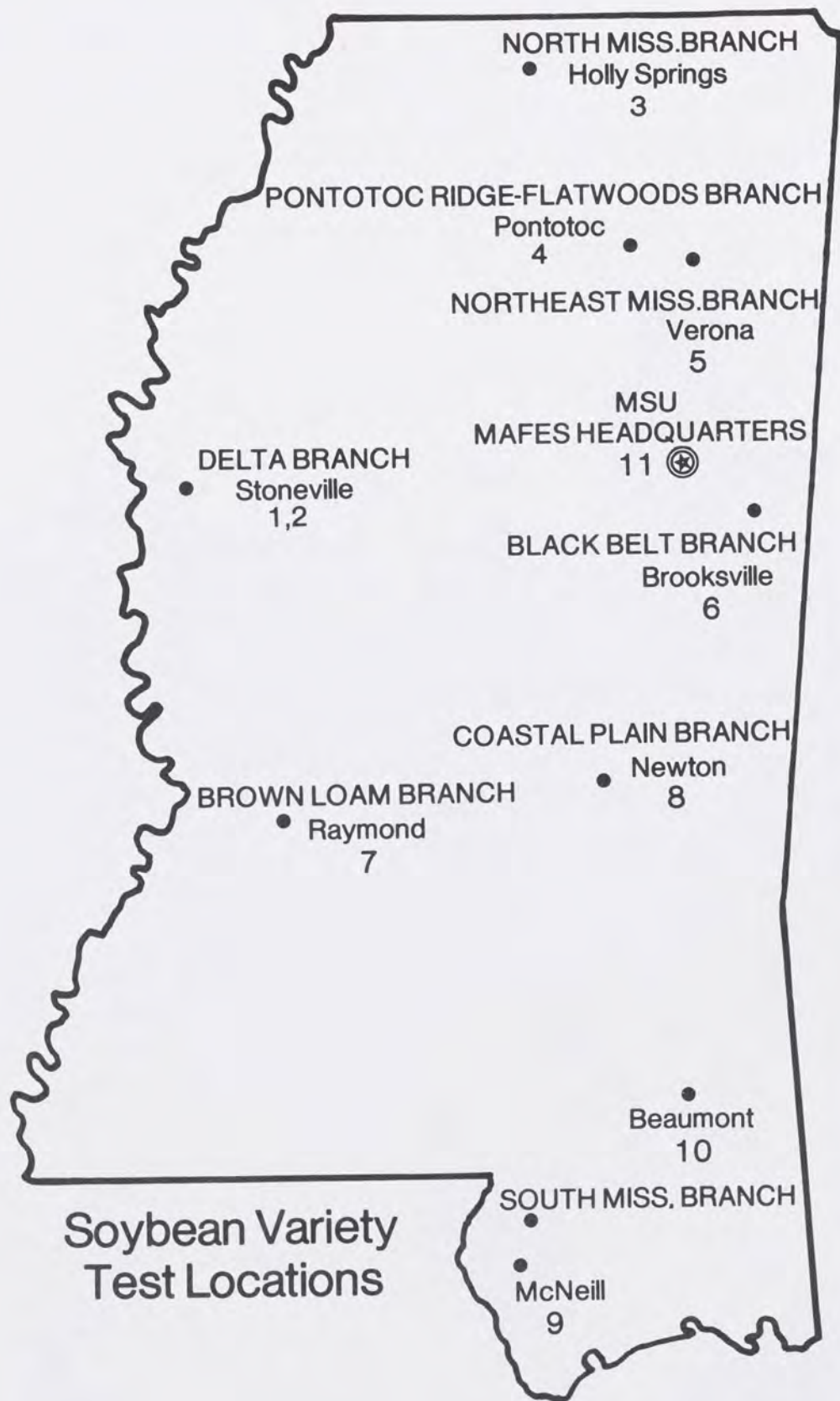
1986 Soybean Variety Trials

A detailed illustration of several soybean pods, some open to show the seeds inside, rendered in a stippled, textured style. The pods are positioned to the right of the main title text.

MAFES

SU

MISSISSIPPI AGRICULTURAL & FORESTRY EXPERIMENT STATION R. Rodney Foil, Vice President and Director
Donald W. Zacharias, President Mississippi State University, Mississippi State, MS 39762



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ACKNOWLEDGMENT

Thanks to Rita Chriswell, Secretary, for compiling the report; and to Jessie Lee Selvie, Field Technician, for assistance in obtaining data for all locations.

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PARTICIPATING COMPANIES AND VARIETIES ENTERED

Asgrow Seed Company
Post Office Drawer 210
Marion, Arkansas 72364

A 5474 A 6520
A 5980 A 6785
A 6242 A 7986

C. R. Seeds, Incorporated
Post Office Box 1867
Hartsville, South Carolina 29550

Coker 82-606 (Exp.)

Dekalb-Pfizer Genetics
1925 Beltline Road
Suite 520
Carrollton, Texas 75006

CX 415
EX 655 (Exp.)

Delta and Pine Land Company
Post Office Box 157
Scott, Mississippi 38772

Deltapine 105
Deltapine 345
Deltapine 415
Deltapine 417
Deltapine 497
Deltapine 506
Deltapine 566
Deltapine 675
Deltapine 726

Eagle Seed Company
Post Office Box 234
Weiner, Arkansas 72479

Yield King 503
Yield King 577
Yield King 593
Yield King 613
Yield King 696
Yield King 707
Yield King 757

Eifling Farms
Route 1, Box 285
Hollandale, Mississippi 38748

Buckshot 500

FFR Cooperative
Route 1
Bells, Tennessee 38006

FFR 561
FFR 668
FFR 771

Funk Seeds, International
Box 2911
Bloomington, Illinois 61701

Exp. 1409 (Exp.)
Exp. 3305 (Exp.)

Hy Performer Seed Company
Suite 3200 - Clark Tower
5100 Poplar Avenue
Memphis, Tennessee 38137

Sampson Spartan
Sanaloma Starr
Shenandoah Wilstar 550
Shiloh Wilstar 790

Jacob Hartz Seed Company, Inc.
Post Office Box 946
Stuttgart, Arkansas 72160

Hartz 5171 Hartz 7110
Hartz 5252 Hartz 7126
Hartz 5370 Hartz 8112
Hartz 6130 Hartz X5164
Hartz 6383R Hartz X6385

Pioneer Hi-Bred International
1000 West Jefferson Street
Tipton, Indiana 46072

Pioneer Variety 5482
Pioneer Variety 9571
Pioneer Variety 9581
Pioneer Variety 9591
Pioneer Variety 9691
Pioneer Variety 9791

Rohm and Haas Seeds, Inc.
Box 2629
West Memphis, Arkansas 72301

Coker 156 Coker 6716
Coker 355 Coker 6727
Coker 368 Coker 6738
Coker 485 Coker 686
Coker 627 RA 480
 RA 606
 RA 680
 RA 702

Terral-Norris Seed Company, Inc.
Post Office Box 826
Lake Providence, Louisiana 72154

Terra-Vig 505
Terra-Vig 515
Terra-Vig 553
Terra-Vig 606
Terra-Vig 616
Terra-Vig 708
Terra-Vig 717
Terra-Vig 808

MISSISSIPPI SOYBEAN VARIETY TRIALS, 1986

Joe E. Askew, Jr., Manager, MAFES Variety Evaluation

Trials were conducted at 11 locations in 1986 (see map, inside front cover). Commercial seed companies were given the opportunity to enter one or more varieties for testing at four or more locations. A fee of \$100 was assessed for each entry at each location except at Mississippi State University, where all entries were tested without charge. Public varieties were selected by the Technical Advisory Committee for evaluation at each location. A standard variety was designated for each of the four maturity groups. They are Forrest for Group V, Centennial for Group VI, Braxton for Group VII and Foster for Group VIII.

Procedure

The trial at each location was a randomized block of each maturity group, with three replications of each entry. Plots were four rows wide and 20 feet long. Row widths were 36 or 38 inches. Recommended cultural and pest control practices were followed. Plots were limed and fertilized according to soil test recommendations.

Planting rate...Seed of all private entries was supplied by the participating companies. All seeds were packaged for planting at the rate of nine to ten per row foot. Plots were planted with a cone planter.

Yield...A plot combine was used to harvest the two center rows of each plot, after ends were trimmed. Exceptions were made when stands on a center row were inadequate, but borders was maintained around the harvested area of each plot. Harvested seed was allowed to dry to uniform moisture content before weighing, and weights were converted to yield in bu/acre (60 lb bu).

Maturity date: The date when pods were dry and most leaves had dropped and, under most conditions, when the stems also were dry was recorded as the maturity date.

Plant height: Plants were measured from the ground to the top extremity, and plant height was recorded as the average of the height of plants measured.

Lodging: Notes were taken, and lodging was rated on the 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% of plants down, 4 = all plants leaning considerably or 50 to 80% of plants down, and 5 = all plants down.

Stem canker: The experimental strain J77-339 which is highly susceptible to the disease stem canker, was planted at each location as an indicator of the presence of this disease. This strain yields well in the absence of this disease.

Location 1...MAFES Delta Branch

Soil type...Bosket very fine sandy loam
 Soil pH...6.5
 Soil fertility...P - high, K = high+
 Row width...36 inches
 Herbicide application...Treflan at 1.0 lb a.i./acre PPI
 Irrigation...1.5 inches furrow applied in week of July 31,
 and again in week of August 13,25, and September 8
 Basagran at 0.5 lb a.i./acre plus
 Blazer at 0.25 lb a.i./acre over the top two different times
 Poast at 0.2 lb a.i./acre over the top

Planting date...May 15

Harvest date...Group V October 21
 Group VI October 29
 Group VII December 4

Rainfall 1986

| <u>Month</u> | <u>Days</u> | <u>Inches</u> | <u>Month</u> | <u>Days</u> | <u>Inches</u> |
|--------------|-------------|---------------|--------------|-------------|---------------|
| May | 1 - 5 | 0.01 | August | 1 - 5 | 0.26 |
| | 6 - 10 | 0.00 | | 6 - 10 | 0.01 |
| | 11 - 15 | 2.85 | | 11 - 15 | 0.00 |
| | 16 - 20 | 0.97 | | 16 - 20 | 0.05 |
| | 21 - 25 | 0.17 | | 21 - 25 | 0.09 |
| | 26 - 31 | <u>1.47</u> | | 26 - 31 | <u>0.50</u> |
| | Total | 5.47 | | Total | .91 |
| June | 1 - 5 | 0.93 | September | 1 - 5 | 0.23 |
| | 6 - 10 | 1.28 | | 6 - 10 | 0.04 |
| | 11 - 15 | 0.20 | | 11 - 15 | 0.17 |
| | 16 - 20 | 0.00 | | 16 - 20 | 0.15 |
| | 21 - 25 | 0.58 | | 21 - 25 | 0.02 |
| | 26 - 30 | <u>0.46</u> | | 26 - 30 | <u>0.11</u> |
| | Total | 3.45 | | Total | .72 |
| July | 1 - 5 | 2.04 | October | 1 - 5 | 0.24 |
| | 6 - 10 | 0.00 | | 6 - 10 | 0.80 |
| | 11 - 15 | 0.02 | | 11 - 15 | 1.99 |
| | 16 - 20 | 0.00 | | 16 - 20 | 0.00 |
| | 21 - 25 | 0.00 | | 21 - 25 | 2.00 |
| | 26 - 31 | <u>0.00</u> | | 26 - 31 | <u>0.00</u> |
| | Total | 2.06 | | Total | 5.03 |

TABLE 1. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES DELTA BRANCH (Location 1) on sandy loam soil. The maturity group is V.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| FORREST | 57.3 | 50.5 | 9/30 | 32 | 2 |
| HARTZ X5164 | 57.0 | ---- | 10/ 3 | 38 | 2 |
| HARTZ 5370 | 55.2 | 50.6 | 9/30 | 36 | 2 |
| PIONEER VARIETY 9571 | 53.4 | 50.3 | 10/ 3 | 30 | 2 |
| A 5980 | 52.9 | 51.2 | 9/30 | 38 | 2 |
| HARTZ 5171 | 52.6 | 46.5 | 10/ 2 | 37 | 2 |
| DELTAPINE 415 | 52.5 | ---- | 10/ 1 | 33 | 2 |
| PIONEER VARIETY 9581 | 52.4 | ---- | 10/ 1 | 30 | 2 |
| TERRA-VIG 515 | 51.5 | 51.1 | 10/ 3 | 32 | 2 |
| A 5474 | 50.5 | 51.6 | 9/22 | 30 | 2 |
| PIONEER VARIETY 5482 | 50.2 | 51.8 | 10/ 3 | 33 | 2 |
| WILSTAR 550 | 50.0 | 45.9 | 10/ 2 | 37 | 2 |
| HARTZ 5252 | 49.8 | 48.7 | 9/30 | 32 | 3 |
| TERRA-VIG 553 | 49.7 | 49.1 | 10/ 1 | 33 | 2 |
| YIELD KING 577 | 48.7- | ---- | 10/ 1 | 39 | 2 |
| DELTAPINE 675 | 48.1- | ---- | 9/30 | 40 | 2 |
| SHENANDOAH | 47.8- | ---- | 9/30 | 32 | 2 |
| COKER 355 | 47.7- | 48.5 | 9/28 | 35 | 2 |
| YIELD KING 503 | 47.6- | ---- | 10/ 1 | 42 | 3 |
| BEDFORD | 47.4- | 44.3 | 10/ 2 | 43 | 3 |
| EPPS | 46.4- | 42.2 | 9/26 | 34 | 2 |
| DELTAPINE 345 | 45.9- | 44.6 | 10/ 5 | 39 | 2 |
| PIONEER VARIETY 9591 | 45.2- | ---- | 10/ 4 | 26 | 2 |
| TERRA-VIG 505 | 44.4- | 41.5 | 10/ 3 | 35 | 2 |
| COKER 485 | 44.2- | 48.0 | 10/ 1 | 32 | 2 |
| DELTAPINE 105 | 43.9- | 45.3 | 10/ 3 | 36 | 2 |
| FFR 561 | 41.7- | 44.7 | 10/ 3 | 28 | 2 |
| BUCKSHOT 500 | 34.4- | ---- | 10/ 5 | 33 | 2 |
| Overall Mean | 47.2 | | | | |
| LSD @ .10 =..... | 7.8 | | | | |
| Standard Error of Mean..... | 3.3 | | | | |
| Error Degrees of Freedom..... | 70 | | | | |
| CV =..... | 14.0 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 1. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES DELTA BRANCH (Location 1) on sandy loam soil. The maturity group is VI.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| CENTENNIAL | 45.7 | 40.7 | 10/20 | 42 | 2 |
| COKER 686 | 54.1+ | ---- | 10/18 | 40 | 2 |
| COKER 6716 | 54.0+ | ---- | 10/ 5 | 40 | 2 |
| DELTAPINE 566 | 53.0+ | 44.4 | 10/25 | 38 | 2 |
| PIONEER VARIETY 9691 | 50.8 | ---- | 10/25 | 40 | 2 |
| RA 606 | 50.5 | ---- | 10/ 8 | 42 | 2 |
| S69-54 | 50.4 | ---- | 10/27 | 36 | 2 |
| YIELD KING 593 | 48.6 | ---- | 10/10 | 43 | 2 |
| A 6785 | 48.2 | ---- | 10/18 | 40 | 3 |
| RA 680 | 48.2 | ---- | 10/20 | 41 | 2 |
| COKER 156 | 48.2 | 40.4 | 10/20 | 40 | 2 |
| A 6242 | 48.1 | 40.9 | 10/ 8 | 38 | 2 |
| YIELD KING 696 | 48.0 | ---- | 10/20 | 41 | 3 |
| DELTAPINE 726 | 47.9 | ---- | 10/25 | 40 | 2 |
| SHILOH | 47.1 | 43.5 | 10/ 5 | 34 | 2 |
| YIELD KING 613 | 46.9 | ---- | 10/16 | 47 | 2 |
| TRACY-M | 46.8 | 40.3 | 10/18 | 38 | 2 |
| DAVIS | 46.2 | 48.3 | 10/15 | 41 | 2 |
| DELTAPINE 506 | 45.9 | 38.4 | 10/25 | 40 | 2 |
| HARTZ 6130 | 45.9 | 40.7 | 10/10 | 41 | 2 |
| YOUNG | 45.8 | ---- | 10/15 | 41 | 2 |
| TERRA-VIG 616 | 45.7 | 39.7 | 10/25 | 43 | 2 |
| A 6520 | 44.9 | 38.6 | 10/13 | 34 | 2 |
| LEFLORE | 44.8 | 40.2 | 10/20 | 43 | 3 |
| HARTZ 6383R | 44.7 | ---- | 10/20 | 40 | 2 |
| SAMPSON | 43.7 | 38.0 | 10/25 | 38 | 2 |
| SANALONA | 43.2 | ---- | 10/10 | 36 | 2 |
| TERRA-VIG 606 | 42.8 | ---- | 10/25 | 42 | 2 |
| HARTZ X6385 | 41.8 | ---- | 10/20 | 39 | 2 |
| SPARTAN | 38.5- | ---- | 10/27 | 44 | 3 |
| J77-339 (EXP.) | 33.2- | 32.9 | 10/15 | 36 | 3 |
| Overall Mean | 45.2 | | | | |
| LSD @ .10 =..... | 5.8 | | | | |
| Standard Error of Mean..... | 2.4 | | | | |
| Error Degrees of Freedom..... | 70 | | | | |
| CV =..... | 10.8 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 1. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES DELTA BRANCH (Location 1) on sandy loam soil. The maturity group is VII.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| BRAXTON | 41.6 | 37.8 | 11/ 1 | 43 | 2 |
| HARTZ 8112 | 49.7+ | ---- | 11/ 3 | 50 | 3 |
| COKER 6727 | 48.8+ | ---- | 10/25 | 42 | 3 |
| GORDON | 47.9 | 39.7 | 10/27 | 45 | 2 |
| COKER 82-606 (EXP.) | 46.8 | ---- | 10/25 | 43 | 2 |
| A 7986 | 46.7 | ---- | 11/ 3 | 45 | 3 |
| TERRA-VIG 708 | 46.5 | 43.4 | 11/ 1 | 40 | 3 |
| PIONEER VARIETY 9791 | 46.1 | ---- | 11/ 1 | 44 | 3 |
| HARTZ 7126 | 45.8 | 39.3 | 10/25 | 46 | 2 |
| YIELD KING 757 | 44.2 | ---- | 11/ 3 | 49 | 3 |
| WRIGHT | 43.7 | 38.3 | 10/29 | 42 | 3 |
| COKER 627 | 43.7 | ---- | 10/25 | 42 | 2 |
| DELTAPINE 417 | 43.4 | 35.3 | 11/ 3 | 59 | 4 |
| HARTZ 7110 | 43.2 | ---- | 10/25 | 44 | 2 |
| STARR | 42.5 | ---- | 10/31 | 42 | 3 |
| DELTAPINE 497 | 42.1 | 38.8 | 10/25 | 52 | 2 |
| BRAGG | 41.2 | 34.0 | 10/29 | 41 | 3 |
| TERRA-VIG 717 | 40.9 | 39.3 | 11/ 3 | 40 | 2 |
| EXP. 1409 (EXP.) | 40.6 | ---- | 10/25 | 42 | 2 |
| WILSTAR 790 | 36.8 | 34.2 | 11/ 5 | 42 | 3 |
| YIELD KING 707 | 36.4 | ---- | 11/ 3 | 53 | 4 |
| RA 702 | 35.9 | ---- | 10/25 | 42 | 3 |
| TERRA-VIG 808 | 33.9- | 34.1 | 11/ 3 | 40 | 3 |
| Overall Mean | 42.3 | | | | |
| LSD @ .10 =..... | 7.1 | | | | |
| Standard Error of Mean..... | 3.0 | | | | |
| Error Degrees of Freedom..... | 46 | | | | |
| CV =..... | 14.2 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 2. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES DELTA BRANCH (Location 2) on clay soil. The maturity group is V.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| FORREST | 43.6 | 40.4 | 10/ 2 | 26 | 2 |
| PIONEER VARIETY 9581 | 51.1+ | ---- | 10/ 2 | 24 | 2 |
| DELTAPINE 345 | 48.9 | 42.9 | 10/ 8 | 30 | 2 |
| A 5980 | 47.5 | 47.2 | 10/ 3 | 28 | 2 |
| DELTAPINE 675 | 47.5 | ---- | 10/ 6 | 30 | 2 |
| HARTZ 5171 | 47.0 | 44.7 | 10/ 6 | 27 | 2 |
| HARTZ 5370 | 46.7 | 46.3 | 10/ 2 | 28 | 2 |
| COKER 485 | 46.6 | 42.8 | 10/ 6 | 26 | 2 |
| PIONEER VARIETY 9591 | 46.4 | ---- | 10/15 | 21 | 2 |
| TERRA-VIG 515 | 45.9 | 41.8 | 10/ 8 | 26 | 2 |
| EPPS | 44.9 | 45.2 | 10/ 1 | 24 | 2 |
| HARTZ 5252 | 44.3 | 39.8 | 10/ 2 | 28 | 2 |
| DELTAPINE 105 | 44.2 | 40.3 | 10/ 8 | 28 | 2 |
| NAROW | 43.7 | ---- | 9/30 | 24 | 2 |
| A 5474 | 43.5 | 40.7 | 9/30 | 26 | 2 |
| FFR 561 | 43.0 | 43.4 | 10/ 6 | 20 | 2 |
| PIONEER VARIETY 9571 | 42.7 | 40.0 | 10/ 2 | 24 | 2 |
| HARTZ X5164 | 42.5 | ---- | 10/ 4 | 25 | 2 |
| TERRA-VIG 553 | 42.3 | 39.8 | 10/ 5 | 23 | 2 |
| DELTAPINE 415 | 41.0 | ---- | 9/30 | 21 | 2 |
| WILSTAR 550 | 40.8 | 35.1 | 10/ 6 | 29 | 2 |
| BEDFORD | 38.8 | 40.8 | 10/ 3 | 26 | 2 |
| RA 480 | 38.7 | ---- | 10/ 1 | 38 | 2 |
| EX655 (EXP.) | 38.3 | ---- | 10/10 | 29 | 2 |
| PIONEER VARIETY 5482 | 37.8 | 38.4 | 10/ 6 | 24 | 2 |
| BUCKSHOT 500 | 31.4- | ---- | 10/13 | 26 | 2 |
| CX415* | 24.4- | ---- | 9/11 | 30 | 2 |
| Overall Mean | 42.2 | | | | |
| LSD @ .10 =..... | 6.6 | | | | |
| Standard Error of Mean..... | 2.8 | | | | |
| Error Degrees of Freedom..... | 70 | | | | |
| CV =..... | 13.3 | | | | |

* Shattered Severely

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 2. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES DELTA BRANCH (Location 2) on clay soil. The maturity group is VI.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| CENTENNIAL | 42.3 | 38.2 | 10/25 | 30 | 2 |
| HARTZ X6385 | 44.7 | ---- | 10/20 | 30 | 2 |
| RA 680 | 43.1 | 41.2 | 10/20 | 32 | 2 |
| YIELD KING 696 | 41.7 | ---- | 10/20 | 30 | 2 |
| YOUNG | 41.4 | ---- | 10/15 | 34 | 2 |
| PIONEER VARIETY 9691 | 40.1 | ---- | 10/25 | 30 | 2 |
| SANALONA | 39.9 | ---- | 10/17 | 25 | 2 |
| DELTAPINE 506 | 38.7 | 34.1 | 10/25 | 34 | 2 |
| LEFLORE | 38.7 | 39.7 | 10/20 | 32 | 2 |
| HARTZ 6383R | 38.5 | ---- | 10/20 | 35 | 2 |
| SAMPSON | 38.4 | 40.6 | 10/20 | 28 | 2 |
| HARTZ 6130 | 38.3 | 40.4 | 10/17 | 30 | 2 |
| A 6785 | 37.3 | ---- | 10/20 | 28 | 2 |
| RA 606 | 37.0 | ---- | 10/15 | 32 | 2 |
| FFR 668 | 36.9 | ---- | 10/25 | 32 | 2 |
| TRACY-M | 36.4 | 35.1 | 10/17 | 31 | 2 |
| COKER 156 | 36.2 | 38.4 | 10/20 | 30 | 2 |
| COKER 686 | 35.4 | ---- | 10/17 | 33 | 2 |
| DELTAPINE 726 | 35.3 | ---- | 10/20 | 32 | 2 |
| DELTAPINE 566 | 33.8- | 40.6 | 10/31 | 32 | 2 |
| TERRA-VIG 606 | 32.7- | ---- | 10/21 | 31 | 2 |
| DAVIS | 32.4- | 36.3 | 10/20 | 26 | 2 |
| SPARTAN | 30.9- | ---- | 10/27 | 33 | 2 |
| COKER 6716 | 30.8- | ---- | 10/15 | 24 | 2 |
| J77-339 (EXP.) | 29.9- | 33.6 | 10/21 | 33 | 2 |
| A 6520 | 25.6- | 32.9 | 10/20 | 22 | 2 |
| TERRA-VIG 616 | 24.9- | 34.4 | 10/20 | 28 | 2 |
| Overall Mean | 35.5 | | | | |
| LSD @ .10 =..... | 7.9 | | | | |
| Standard Error of Mean..... | 3.4 | | | | |
| Error Degrees of Freedom..... | 70 | | | | |
| CV =..... | 18.9 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 2. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES DELTA BRANCH (Location 2) on clay soil. The maturity group is VII.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| BRAXTON | 19.5 | 29.0 | 11/ 3 | 29 | 2 |
| COKER 82-606 (EXP.) | 36.5+ | ---- | 10/27 | 32 | 2 |
| WILSTAR 790 | 35.6+ | 33.3 | 11/ 3 | 34 | 2 |
| YIELD KING 707 | 34.4+ | ---- | 10/31 | 43 | 2 |
| PIONEER VARIETY 9791 | 34.1+ | ---- | 10/31 | 31 | 2 |
| COKER 6727 | 33.9+ | ---- | 10/25 | 28 | 2 |
| YIELD KING 757 | 33.6+ | ---- | 11/ 3 | 38 | 2 |
| EXP. 1409 (EXP.) | 33.3+ | ---- | 10/25 | 30 | 2 |
| BRAGG | 33.2+ | 31.9 | 10/27 | 36 | 2 |
| HARTZ 7126 | 33.2+ | 34.7 | 10/31 | 31 | 2 |
| WRIGHT | 32.1+ | 32.9 | 10/27 | 34 | 2 |
| COKER 627 | 31.8+ | ---- | 10/25 | 33 | 2 |
| TERRA-VIG 808 | 31.5+ | 31.0 | 10/29 | 32 | 2 |
| STARR | 30.4+ | ---- | 10/31 | 26 | 2 |
| RA 702 | 30.3+ | ---- | 11/ 3 | 24 | 2 |
| TERRA-VIG 717 | 30.0+ | 33.4 | 10/31 | 28 | 2 |
| DELTAPINE 497 | 29.9+ | 33.4 | 11/ 1 | 36 | 2 |
| HARTZ 7110 | 29.4+ | ---- | 10/27 | 26 | 2 |
| A 7986 | 29.1+ | ---- | 11/ 3 | 30 | 2 |
| DELTAPINE 417 | 29.1+ | 31.0 | 10/31 | 35 | 2 |
| GORDON | 20.2 | 29.8 | 10/25 | 28 | 2 |
| TERRA-VIG 708 | 19.0 | 30.0 | 10/31 | 24 | 2 |
| Overall Mean | 30.1 | | | | |
| LSD @ .10 =..... | 7.9 | | | | |
| Standard Error of Mean..... | 3.3 | | | | |
| Error Degrees of Freedom..... | 46 | | | | |
| CV =..... | 22.1 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

Location 3...MAFES North Mississippi Branch

Soil type...Calloway Silt Loam
 Soil pH...6.1
 Soil fertility...P - medium, K = high
 Fertilizer added...400 lb 0=60=120
 Row width...38 inches
 Herbicide application...Dual at 2.00 lb a.i./acre Pre
 Basagran at 0.75 lb a.i./acre overhead
 Poast 0.2 lb a.i./acre plus 1.25% oil over
 the top two different times

Planting date...May 5

Harvest date...Group V October 16
 Group VI October 29
 Group VII October 29

Rainfall 1986

| <u>Month</u> | <u>Days</u> | <u>Inches</u> | <u>Month</u> | <u>Days</u> | <u>Inches</u> |
|--------------|-------------|---------------|--------------|-------------|---------------|
| May | 1 - 5 | 0.17 | August | 1 - 5 | 0.08 |
| | 6 - 10 | 1.50 | | 6 - 10 | 1.62 |
| | 11 - 15 | 0.73 | | 11 - 15 | 1.36 |
| | 16 - 20 | 0.37 | | 16 - 20 | 0.41 |
| | 21 - 25 | 0.77 | | 21 - 25 | 0.12 |
| | 26 - 31 | <u>0.63</u> | | 26 - 31 | <u>0.53</u> |
| | Total | 4.17 | | Total | 4.12 |
| June | 1 - 5 | 2.73 | September | 1 - 5 | 0.45 |
| | 6 - 10 | 3.50 | | 6 - 10 | 0.02 |
| | 11 - 15 | 1.87 | | 11 - 15 | 0.65 |
| | 16 - 20 | 0.00 | | 16 - 20 | 0.09 |
| | 21 - 25 | 0.12 | | 21 - 25 | 0.41 |
| | 26 - 30 | <u>1.03</u> | | 26 - 30 | <u>0.01</u> |
| | Total | 9.25 | | Total | 1.63 |
| July | 1 - 5 | 0.82 | October | 1 - 5 | 0.09 |
| | 6 - 10 | 0.00 | | 6 - 10 | 0.19 |
| | 11 - 15 | 0.57 | | 11 - 15 | 1.13 |
| | 16 - 20 | 0.00 | | 16 - 20 | 0.00 |
| | 21 - 25 | 0.00 | | 21 - 25 | 3.62 |
| | 26 - 31 | <u>0.05</u> | | 26 - 31 | <u>0.01</u> |
| | Total | 1.44 | | Total | 5.04 |

TABLE 3. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES NORTH MISSISSIPPI BRANCH (Location 3) on sandy loam soil. The maturity group is V.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| FORREST | 42.5 | 30.8 | 9/19 | 34 | 2 |
| PIONEER VARIETY 5482 | 44.4 | 38.2 | 9/21 | 38 | 2 |
| COKER 485 | 44.1 | 31.9 | 9/22 | 32 | 2 |
| A 5474 | 41.9 | 39.6 | 9/17 | 35 | 2 |
| FFR 561 | 41.8 | 32.1 | 9/22 | 34 | 2 |
| HARTZ X5164 | 41.1 | ---- | 9/22 | 36 | 3 |
| TN5-85 | 41.1 | ---- | 9/18 | 38 | 2 |
| NAROW | 40.9 | 35.6 | 9/21 | 31 | 2 |
| DELTAPINE 675 | 40.8 | ---- | 9/19 | 40 | 2 |
| TERRA-VIG 515 | 40.4 | 34.2 | 9/23 | 37 | 2 |
| PIONEER VARIETY 9581 | 40.4 | ---- | 9/19 | 35 | 2 |
| EX655 (EXP.) | 40.3 | ---- | 9/23 | 33 | 3 |
| COKER 355 | 40.2 | 37.8 | 9/20 | 36 | 3 |
| PIONEER VARIETY 9591 | 39.4 | ---- | 9/23 | 26 | 2 |
| PIONEER VARIETY 9571 | 39.2 | 37.5 | 9/18 | 32 | 3 |
| BAY | 39.1 | ---- | 9/20 | 35 | 2 |
| BEDFORD | 39.1 | 35.5 | 9/18 | 42 | 3 |
| TERRA-VIG 553 | 38.8 | ---- | 9/19 | 34 | 2 |
| ESSEX | 38.6 | 26.9 | 9/22 | 28 | 2 |
| SHENANDOAH | 38.0 | ---- | 9/20 | 36 | 2 |
| WILSTAR 550 | 38.0 | 26.3 | 9/19 | 36 | 2 |
| EPPS | 37.0 | 36.1 | 9/17 | 35 | 3 |
| A 5980 | 36.5 | 36.5 | 9/17 | 38 | 3 |
| RA 480 | 35.9 | ---- | 9/17 | 42 | 3 |
| Overall Mean | 39.9 | | | | |
| LSD @ .10 =..... | NS | | | | |
| Standard Error of Mean..... | 2.1 | | | | |
| Error Degrees of Freedom..... | 58 | | | | |
| CV =..... | 10.6 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 3. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES NORTH MISSISSIPPI BRANCH (Location 3) on sandy loam soil. The maturity group is VI.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| CENTENNIAL | 31.9 | 21.0 | 10/13 | 42 | 3 |
| SHILOH | 43.1+ | 34.3 | 9/24 | 36 | 2 |
| COKER 156 | 40.3+ | 28.6 | 10/ 5 | 41 | 2 |
| HARTZ 6130 | 40.2+ | ---- | 10/ 1 | 40 | 3 |
| SAMPSON | 39.7+ | ---- | 10/ 8 | 39 | 3 |
| COKER 6716 | 39.5+ | ---- | 9/24 | 43 | 2 |
| RA 606 | 38.1+ | ---- | 9/28 | 45 | 3 |
| YOUNG | 37.9+ | ---- | 9/27 | 43 | 3 |
| COKER 686 | 37.7+ | ---- | 10/ 4 | 44 | 2 |
| A 6242 | 36.8+ | ---- | 9/27 | 35 | 3 |
| A 6520 | 36.4+ | ---- | 9/29 | 36 | 2 |
| LEFLORE | 36.3+ | 27.3 | 10/ 5 | 42 | 3 |
| EXP 3305 (EXP.) | 35.9+ | ---- | 9/26 | 42 | 3 |
| A 6785 | 35.7+ | ---- | 10/ 1 | 40 | 3 |
| TRACY-M | 35.4+ | 26.1 | 9/28 | 36 | 3 |
| PIONEER VARIETY 9691 | 35.1+ | ---- | 10/ 8 | 40 | 3 |
| DAVIS | 35.0 | 23.4 | 9/29 | 42 | 3 |
| TERRA-VIG 616 | 33.4 | 24.8 | 10/13 | 47 | 3 |
| SPARTAN | 29.2 | ---- | 10/14 | 46 | 3 |
| J77-339 (EXP.) | 27.2- | 24.0 | 10/ 8 | 44 | 3 |
| Overall Mean | 36.1 | | | | |
| LSD @ .10 =..... | 3.1 | | | | |
| Standard Error of Mean..... | 1.3 | | | | |
| Error Degrees of Freedom..... | 46 | | | | |
| CV =..... | 7.2 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 3. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES NORTH MISSISSIPPI BRANCH (Location 3) on sandy loam soil. The maturity group is VII.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| BRAXTON | 23.4 | 21.4 | 10/15 | 46 | 2 |
| COKER 82-606 (EXP.) | 35.1+ | ---- | 10/13 | 42 | 3 |
| RA 702 | 33.6+ | ---- | 10/16 | 40 | 3 |
| COKER 6726 | 32.4+ | ---- | 10/14 | 41 | 3 |
| GORDON | 31.8+ | 24.3 | 10/12 | 43 | 3 |
| STARR | 26.6 | ---- | 10/15 | 41 | 3 |
| PIONEER VARIETY 9791 | 26.5 | ---- | 10/15 | 37 | 2 |
| WILSTAR 790 | 25.6 | 21.0 | 10/16 | 43 | 3 |
| WRIGHT | 24.4 | 21.1 | 10/15 | 43 | 3 |
| BRAGG | 23.6 | 21.0 | 10/15 | 46 | 3 |
| Overall Mean | 27.9 | | | | |
| LSD @ .10 =..... | 4.3 | | | | |
| Standard Error of Mean..... | 1.8 | | | | |
| Error Degrees of Freedom..... | 22 | | | | |
| CV =..... | 12.7 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

Location 4...MAFES Pontotoc Ridge-Flatwoods Branch

Soil type...Bude silt loam
 Soil pH...4.8
 Soil fertility...P - medium, K - medium
 Fertilizer added...400 lb 0-60-120
 2 tons lime incorporated
 Row width...38 inches
 Herbicide application...Treflan at 1.0 lb a.i./acre PPI
 Basagran at 0.75 lb a.i./acre
 Blazer at 0.25 lb a.i./acre

 Planting date...May 6

Harvest date...Group V October 16
 Group VI November 17
 Group VII November 29

Rainfall 1986

| <u>Month</u> | <u>Days</u> | <u>Inches</u> | <u>Month</u> | <u>Days</u> | <u>Inches</u> |
|--------------|-------------|---------------|--------------|-------------|---------------|
| May | 1 - 5 | .21 | August | 1 - 5 | 0.00 |
| | 6 - 10 | .23 | | 6 - 10 | 0.21 |
| | 11 - 15 | 1.53 | | 11 - 15 | 0.42 |
| | 16 - 20 | 1.46 | | 16 - 20 | 0.20 |
| | 21 - 25 | 0.58 | | 21 - 25 | 0.00 |
| | 26 - 31 | <u>1.80</u> | | 26 - 31 | <u>0.59</u> |
| | Total | 5.81 | | Total | 1.42 |
| June | 1 - 5 | .65 | September | 1 - 5 | 0.46 |
| | 6 - 10 | 7.37 | | 6 - 10 | 0.03 |
| | 11 - 15 | 0.42 | | 11 - 15 | 0.52 |
| | 16 - 20 | 0.00 | | 16 - 20 | 0.03 |
| | 21 - 25 | 0.56 | | 21 - 25 | 0.04 |
| | 26 - 30 | <u>1.77</u> | | 26 - 30 | <u>0.00</u> |
| | Total | 10.77 | | Total | 1.08 |
| July | 1 - 5 | 0.51 | October | 1 - 5 | 0.06 |
| | 6 - 10 | 0.00 | | 6 - 10 | 1.28 |
| | 11 - 15 | 0.21 | | 11 - 15 | 2.20 |
| | 16 - 20 | 0.22 | | 16 - 20 | 0.00 |
| | 21 - 25 | 0.00 | | 21 - 25 | 2.57 |
| | 26 - 31 | <u>0.00</u> | | 26 - 31 | <u>0.03</u> |
| | Total | 0.94 | | Total | 6.14 |

TABLE 4. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES PONTOTOC RIDGE-FLATWOODS BRANCH (Location 4) on Interior Flatwoods soil. The maturity group is V.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| FORREST | 28.6 | 33.3 | 9/19 | 27 | 2 |
| PIONEER VARIETY 9591 | 34.3+ | ---- | 9/17 | 20 | 2 |
| FFR 561 | 34.1+ | ---- | 9/19 | 24 | 2 |
| DELTAPINE 415 | 33.4+ | ---- | 9/17 | 28 | 2 |
| DELTAPINE 105 | 31.9 | 34.1 | 9/20 | 32 | 2 |
| HARTZ 5171 | 31.8 | 33.6 | 9/22 | 32 | 3 |
| HARTZ X5164 | 31.1 | ---- | 9/23 | 30 | 2 |
| BAY | 30.6 | 35.2 | 9/14 | 27 | 2 |
| DELTAPINE 345 | 30.6 | 33.2 | 9/23 | 30 | 2 |
| A 5980 | 30.5 | 37.0 | 9/18 | 33 | 2 |
| TERRA-VIG 505 | 30.3 | 32.0 | 9/21 | 30 | 2 |
| YIELD KING 577 | 30.2 | ---- | 9/12 | 31 | 2 |
| TN5-85 | 29.4 | ---- | 9/20 | 27 | 2 |
| EPPS | 29.0 | 30.9 | 9/18 | 29 | 2 |
| NAROW | 28.9 | 36.8 | 9/18 | 21 | 2 |
| PIONEER VARIETY 9571 | 28.2 | 36.7 | 9/24 | 30 | 2 |
| TERRA-VIG 553 | 27.8 | ---- | 9/18 | 27 | 2 |
| TERRA-VIG 515 | 27.7 | 36.5 | 9/25 | 28 | 2 |
| COKER 355 | 27.2 | 34.6 | 9/17 | 28 | 2 |
| DELTAPINE 675 | 27.1 | ---- | 9/21 | 30 | 2 |
| PIONEER VARIETY 9581 | 26.7 | ---- | 9/23 | 29 | 2 |
| COKER 485 | 26.6 | 37.2 | 9/26 | 27 | 2 |
| BEDFORD | 26.6 | 32.1 | 9/18 | 36 | 2 |
| WILSTAR 550 | 26.1 | 32.8 | 9/19 | 28 | 2 |
| HARTZ 5370 | 26.1 | 29.8 | 9/23 | 28 | 2 |
| A 5474 | 26.0 | 34.5 | 9/ 9 | 27 | 2 |
| PIONEER VARIETY 5482 | 25.9 | 35.8 | 9/19 | 30 | 2 |
| YIELD KING 503 | 25.7 | ---- | 9/20 | 34 | 2 |
| HARTZ 5252 | 24.8 | 33.6 | 9/21 | 28 | 2 |
| Overall Mean | 28.9 | | | | |
| LSD @ .10 =..... | 3.9 | | | | |
| Standard Error of Mean..... | 1.6 | | | | |
| Error Degrees of Freedom..... | 58 | | | | |
| CV =..... | 11.4 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 4. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES PONTOTOC RIDGE-FLATWOODS BRANCH (Location 4) on Interior Flatwoods soil. The maturity group is VI.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| CENTENNIAL | 22.5 | 27.9 | 10/ 3 | 32 | 2 |
| DELTAPINE 566 | 30.0 | 33.5 | 10/ 8 | 26 | 2 |
| LEFLORE | 28.4 | 30.0 | 10/ 1 | 30 | 2 |
| SAMPSON | 28.1 | ---- | 10/ 5 | 28 | 2 |
| A 6785 | 28.1 | ---- | 9/30 | 36 | 3 |
| S69-54 | 27.4 | ---- | 10/ 2 | 29 | 2 |
| SHILOH | 27.2 | 32.1 | 9/27 | 27 | 2 |
| PIONEER VARIETY 9691 | 27.1 | ---- | 10/ 6 | 32 | 2 |
| HARTZ 6130 | 26.2 | ---- | 10/ 1 | 29 | 2 |
| HARTZ X6385 | 26.0 | ---- | 10/ 4 | 34 | 2 |
| SANALONA | 25.8 | ---- | 9/25 | 30 | 3 |
| TERRA-VIG 616 | 25.1 | 28.5 | 10/ 7 | 40 | 2 |
| TRACY-M | 25.1 | 29.3 | 9/30 | 28 | 2 |
| YIELD KING 593 | 24.9 | ---- | 9/23 | 31 | 2 |
| A 6520 | 24.6 | 31.0 | 10/ 2 | 25 | 2 |
| DELTAPINE 506 | 24.1 | 25.0 | 10/ 4 | 34 | 2 |
| EXP. 3305 (EXP.) | 24.0 | ---- | 10/ 1 | 33 | 2 |
| COKER 686 | 24.0 | ---- | 10/ 1 | 34 | 2 |
| A 6242 | 23.9 | 27.5 | 10/ 5 | 28 | 2 |
| RA 680 | 23.8 | 29.6 | 10/10 | 34 | 2 |
| COKER 6716 | 23.7 | ---- | 9/22 | 30 | 2 |
| RA 606 | 23.0 | 27.6 | 6/21 | 40 | 3 |
| YIELD KING 613 | 22.8 | ---- | 9/24 | 40 | 2 |
| SPARTAN | 22.4 | ---- | 10/ 8 | 40 | 3 |
| DAVIS | 22.0 | 25.4 | 9/30 | 40 | 3 |
| YOUNG | 21.1 | ---- | 9/26 | 38 | 3 |
| J77-339 (EXP.) | 15.2 | 14.9 | 9/30 | 32 | 3 |
| Overall Mean | 24.5 | | | | |
| LSD @ .10 =..... | NS | | | | |
| Standard Error of Mean..... | 2.1 | | | | |
| Error Degrees of Freedom..... | 58 | | | | |
| CV =..... | 16.8 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 4. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES PONTOTOC RIDGE-FLATWOODS BRANCH (Location 4) on Interior Flatwoods soil. The maturity group is VII.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| BRAXTON | 23.4 | 27.8 | 10/12 | 35 | 2 |
| COKER 6727 | 25.0 | ---- | 10/12 | 30 | 2 |
| PIONEER VARIETY 9791 | 24.4 | ---- | 10/11 | 28 | 2 |
| WRIGHT | 22.5 | 26.1 | 10/12 | 31 | 2 |
| BRAGG | 22.0 | 23.5 | 10/11 | 38 | 2 |
| DELTAPINE 497 | 20.1 | 25.7 | 10/15 | 40 | 2 |
| DELTAPINE 417 | 19.9 | 22.4 | 10/15 | 44 | 3 |
| STARR | 19.8- | 24.2 | 10/11 | 33 | 2 |
| WILSTAR 790 | 19.8- | ---- | 10/12 | 32 | 2 |
| RA 702 | 17.5- | ---- | 10/12 | 29 | 2 |
| GORDON | 16.9- | 25.3 | 10/13 | 31 | 2 |
| COKER 82-606 (EXP.) | 16.8- | ---- | 10/13 | 32 | 2 |
| Overall Mean | 20.7 | | | | |
| LSD @ .10 =..... | 3.6 | | | | |
| Standard Error of Mean..... | 1.5 | | | | |
| Error Degrees of Freedom..... | 22 | | | | |
| CV =..... | 14.2 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

Location 5...MAFES Northeast Mississippi Branch

Soil type... Marietta Loam
 Soil pH...5.8
 Soil fertility...P - high, K - medium
 Fertilizer added...100 lb 0-0-60
 Row width...38 inches
 Herbicide application...Dual at 2 lb a.i./acre PRE
 Blazer at 0.38 lb a.i./acre post-directed,
 Post-directed Sencor @ 0.38 + 2,4-DB @ 0.2 lb
 a.i./acre

Planting date...May 7

Harvest date...Group V October 8
 Group VI October 30
 Group VII October 30

Rainfall 1986

| <u>Month</u> | <u>Days</u> | <u>Inches</u> | <u>Month</u> | <u>Days</u> | <u>Inches</u> |
|--------------|-------------|---------------|--------------|-------------|---------------|
| May | 1 - 5 | 0.03 | August | 1 - 5 | 0.03 |
| | 6 - 10 | 0.28 | | 6 - 10 | 4.01 |
| | 11 - 15 | 1.32 | | 11 - 15 | 0.14 |
| | 16 - 20 | 0.76 | | 16 - 20 | 0.36 |
| | 21 - 25 | 1.11 | | 21 - 25 | 0.00 |
| | 26 - 31 | <u>2.21</u> | | 26 - 31 | <u>0.00</u> |
| | Total | 5.71 | | Total | 4.54 |
| June | 1 - 5 | 0.35 | September | 1 - 5 | 0.00 |
| | 6 - 10 | 2.52 | | 6 - 10 | 0.01 |
| | 11 - 15 | 1.11 | | 11 - 15 | 0.78 |
| | 16 - 20 | 0.00 | | 16 - 20 | 0.08 |
| | 21 - 25 | 0.04 | | 21 - 25 | 1.72 |
| | 26 - 30 | <u>0.28</u> | | 26 - 30 | <u>0.04</u> |
| | Total | 4.30 | | Total | 2.63 |
| July | 1 - 5 | 0.26 | October | 1 - 5 | 0.08 |
| | 6 - 10 | 0.00 | | 6 - 10 | 1.17 |
| | 11 - 15 | 0.02 | | 11 - 15 | 1.75 |
| | 16 - 20 | 0.00 | | 16 - 20 | 0.00 |
| | 21 - 25 | 0.00 | | 21 - 25 | 3.38 |
| | 26 - 31 | <u>0.00</u> | | 26 - 31 | <u>0.00</u> |
| | Total | 0.28 | | Total | 6.41 |

TABLE 5. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES NORTHEAST MISSISSIPPI BRANCH (Location 5) on silty clay soil. The maturity group is V.*

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| FORREST | 27.6 | 39.9 | 9/24 | 25 | 2 |
| HARTZ X5164 | 42.7+ | ---- | 9/29 | 27 | 2 |
| EPPS | 38.4+ | 41.9 | 9/21 | 24 | 2 |
| EX655 (EXP.) | 37.5+ | ---- | 10/ 1 | 28 | 2 |
| DELTAPINE 415 | 37.4+ | ---- | 9/23 | 22 | 2 |
| YIELD KING 577 | 37.1+ | ---- | 9/26 | 26 | 2 |
| HARTZ 5370 | 36.4+ | 43.3 | 9/28 | 28 | 2 |
| BAY | 35.1+ | 42.8 | 9/25 | 25 | 2 |
| TN5-85 | 34.9+ | ---- | 9/26 | 24 | 2 |
| DELTAPINE 345 | 34.6+ | ---- | 9/29 | 29 | 2 |
| COKER 485 | 34.5+ | 45.1 | 9/30 | 25 | 2 |
| TERRA-VIG 505 | 33.5+ | ---- | 9/28 | 29 | 2 |
| TERRA-VIG 515 | 33.2+ | 46.9 | 9/29 | 25 | 2 |
| WILSTAR 550 | 33.1+ | 43.4 | 9/27 | 28 | 2 |
| DELTAPINE 105 | 33.1+ | ---- | 9/26 | 30 | 2 |
| PIONEER VARIETY 5482 | 32.9+ | ---- | 9/25 | 26 | 2 |
| YIELD KING 503 | 32.5 | 37.7 | 9/24 | 31 | 3 |
| RA 480 | 32.5 | ---- | 9/23 | 34 | 3 |
| NAROW | 32.2 | 43.4 | 9/25 | 20 | 2 |
| PIONEER VARIETY 9591 | 32.2 | ---- | 9/28 | 18 | 2 |
| BEDFORD | 31.4 | 39.5 | 9/23 | 30 | 2 |
| TERRA-VIG 553 | 30.3 | ---- | 9/27 | 23 | 2 |
| COKER 355 | 29.4 | ---- | 9/25 | 28 | 2 |
| A 5474 | 28.7 | 38.6 | 9/22 | 24 | 2 |
| PIONEER VARIETY 9581 | 27.8 | ---- | 9/23 | 24 | 2 |
| HARTZ 5171 | 27.0 | 39.9 | 9/28 | 28 | 2 |
| HARTZ 5252 | 26.6 | 40.1 | 9/25 | 25 | 2 |
| PIONEER VARIETY 9571 | 25.2 | ---- | 9/20 | 26 | 2 |
| BUCKSHOT 500 | 25.1 | ---- | 9/30 | 25 | 2 |
| DELTAPINE 675 | 24.3 | ---- | 9/28 | 24 | 2 |
| SHENANDOAH | 22.3- | ---- | 9/26 | 24 | 2 |
| CX415** | 12.1- | ---- | 9/ 8 | 23 | 2 |
| Overall Mean | 31.4 | | | | |
| LSD @ .10 =..... | 4.9 | | | | |
| Standard Error of Mean..... | 2.1 | | | | |
| Error Degrees of Freedom..... | 70 | | | | |
| CV =..... | 13.3 | | | | |

* Stem canker affected yields at this location.

** Shattered Severely

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 5. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES NORTHEAST MISSISSIPPI BRANCH (Location 5) on silty clay soil. The maturity group is VI.*

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| CENTENNIAL | 36.9 | 39.1 | 10/19 | 32 | 3 |
| LEFLORE | 42.8+ | 40.4 | 10/18 | 30 | 3 |
| TRACY-M | 41.9+ | 40.9 | 10/ 8 | 29 | 3 |
| YOUNG | 40.3 | ---- | 9/30 | 36 | 3 |
| RA 680 | 40.1 | 40.8 | 10/16 | 31 | 3 |
| EXP 3305 (EXP.) | 39.5 | ---- | 10/ 6 | 28 | 2 |
| COKER 686 | 38.8 | ---- | 10/17 | 30 | 2 |
| DELTAPINE 566 | 38.5 | ---- | 10/19 | 29 | 2 |
| HARTZ X6385 | 38.0 | ---- | 10/20 | 31 | 3 |
| DELTAPINE 726 | 36.4 | ---- | 10/20 | 30 | 3 |
| A 6785 | 35.9 | ---- | 10/ 7 | 32 | 3 |
| DAVIS | 35.3 | 38.0 | 10/ 2 | 34 | 3 |
| PIONEER VARIETY 9691 | 35.3 | ---- | 10/18 | 28 | 3 |
| SHILOH | 32.9 | 36.0 | 10/ 1 | 24 | 2 |
| SPARTAN | 32.9 | ---- | 10/22 | 37 | 3 |
| YIELD KING 613 | 32.4- | ---- | 10/ 1 | 37 | 3 |
| HARTZ 6130 | 32.4- | 36.0 | 10/ 8 | 30 | 2 |
| DELTAPINE 506 | 32.1- | ---- | 10/20 | 35 | 3 |
| SAMPSON | 31.9- | ---- | 10/19 | 29 | 3 |
| TERRA-VIG 616 | 27.7- | 36.1 | 10/21 | 35 | 3 |
| HARTZ 6383R | 26.8- | ---- | 10/15 | 32 | 3 |
| RA 606 | 23.6- | 35.8 | 10/ 1 | 34 | 2 |
| COKER 6716 | 21.1- | ---- | 9/26 | 26 | 2 |
| J77-339 (EXP.) | 17.6- | 22.3 | 10/ 1 | 33 | 3 |
| YIELD KING 593 | 12.6- | 29.1 | 9/24 | 28 | 2 |
| Overall Mean | 34.2 | | | | |
| LSD @ .10 =..... | 4.1 | | | | |
| Standard Error of Mean..... | 1.8 | | | | |
| Error Degrees of Freedom..... | 68 | | | | |
| CV =..... | 10.3 | | | | |

* Stem canker affected yields at this location.

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 5. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES NORTHEAST MISSISSIPPI BRANCH (Location 5) on silty clay soil. The maturity group is VII.*

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| BRAXTON | 48.8 | 45.2 | 10/28 | 39 | 3 |
| COKER 82-606 (EXP.) | 53.8 | ---- | 10/19 | 36 | 3 |
| COKER 6727 | 46.4 | ---- | 10/19 | 30 | 3 |
| HARTZ 7110 | 46.0 | ---- | 10/18 | 34 | 3 |
| WRIGHT | 44.8 | 40.8 | 10/24 | 33 | 3 |
| EXP 1409 (EXP.) | 44.8 | ---- | 10/17 | 32 | 3 |
| PIONEER VARIETY 9791 | 44.1 | ---- | 10/24 | 30 | 3 |
| DELTAPINE 497 | 43.8 | ---- | 10/26 | 44 | 3 |
| TERRA-VIG 717 | 43.6 | ---- | 10/25 | 34 | 3 |
| DELTAPINE 417 | 42.4- | ---- | 10/27 | 48 | 3 |
| HARTZ 7126 | 41.0- | 42.3 | 10/20 | 34 | 3 |
| STARR | 40.6- | ---- | 10/19 | 33 | 3 |
| GORDON | 39.2- | 39.1 | 10/19 | 34 | 3 |
| TERRA-VIG 708 | 38.5- | ---- | 10/17 | 29 | 2 |
| BRAGG | 36.6- | 37.7 | 10/25 | 37 | 3 |
| WILSTAR 790 | 34.6- | ---- | 10/28 | 34 | 3 |
| RA 702 | 27.9- | ---- | 10/21 | 29 | 3 |
| Overall Mean | 42.7 | | | | |
| LSD @ .10 =..... | 5.3 | | | | |
| Standard Error of Mean..... | 2.2 | | | | |
| Error Degrees of Freedom..... | 34 | | | | |
| CV =..... | 10.3 | | | | |

* Stem canker affected yields at this location.

(+) and (-) are indicators of statistical differences as compared to the standard

Location 6...MAFES Black Belt Branch

Soil type...silty clay

Soil pH...6.2

Soil fertility...P = medium, K = low

Fertilizer added...100 lb 0-0-60

Row width...38 inches

Herbicide application...Treflan at 1.0 lb a.i./acre preplant

Basagran at 0.75 lb a.i./acre postemerge

Lorox and 2,4-DB @ 0.5 + 0.2 lb a.i./acre

respectively, post direct

Planting date...June 10

Harvest date...Group V October 17

Group VI October 31

Group VII October 31

Rainfall 1986

| <u>Month</u> | <u>Days</u> | <u>Inches</u> | <u>Month</u> | <u>Days</u> | <u>Inches</u> |
|--------------|-------------|---------------|--------------|-------------|---------------|
| May | 1 - 5 | 0.00 | August | 1 - 5 | 0.00 |
| | 6 - 10 | 0.00 | | 6 - 10 | 0.45 |
| | 11 - 15 | 2.05 | | 11 - 15 | 0.34 |
| | 16 - 20 | 0.74 | | 16 - 20 | 0.59 |
| | 21 - 25 | 0.40 | | 21 - 25 | 0.55 |
| | 26 - 31 | <u>3.24</u> | | 26 - 31 | <u>0.66</u> |
| | Total | 6.43 | | Total | 2.59 |
| June | 1 - 5 | 0.43 | September | 1 - 5 | 0.66 |
| | 6 - 10 | 0.41 | | 6 - 10 | 0.91 |
| | 11 - 15 | 1.10 | | 11 - 15 | 0.78 |
| | 16 - 20 | 0.00 | | 16 - 20 | 0.00 |
| | 21 - 25 | 0.00 | | 21 - 25 | 0.00 |
| | 26 - 30 | <u>0.92</u> | | 26 - 30 | <u>0.00</u> |
| | Total | 2.86 | | Total | 2.35 |
| July | 1 - 5 | 0.00 | October | 1 - 5 | 0.00 |
| | 6 - 10 | 0.24 | | 6 - 10 | 3.41 |
| | 11 - 15 | 0.65 | | 11 - 15 | 3.05 |
| | 16 - 20 | 0.12 | | 16 - 20 | 0.00 |
| | 21 - 25 | 0.08 | | 21 - 25 | 1.86 |
| | 26 - 31 | <u>0.00</u> | | 26 - 31 | <u>0.00</u> |
| | Total | 1.09 | | Total | 8.32 |

TABLE 6. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES BLACK BELT BRANCH (Location 6) on silty clay soil. The maturity group is V.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| FORREST | 25.2 | 23.8 | 10/ 1 | 32 | 2 |
| BAY | 31.4+ | 24.5 | 10/ 1 | 35 | 3 |
| DELTAPINE 415 | 30.4+ | ---- | 10/ 1 | 33 | 2 |
| COKER 485 | 29.6+ | ---- | 10/ 3 | 34 | 3 |
| EPPS | 29.2+ | 25.0 | 10/ 1 | 34 | 3 |
| TERRA-VIG 505 | 28.9+ | ---- | 10/ 3 | 34 | 3 |
| SHENANDOAH | 28.9+ | ---- | 10/ 2 | 36 | 3 |
| DELTAPINE 345 | 28.6 | 28.5 | 10/ 3 | 39 | 3 |
| NAROW | 28.5 | 28.3 | 9/29 | 28 | 2 |
| WILSTAR 550 | 28.2 | 25.8 | 10/ 3 | 32 | 3 |
| TN5-85 | 28.0 | ---- | 9/29 | 34 | 3 |
| DELTAPINE 105 | 27.8 | 27.2 | 10/ 2 | 34 | 3 |
| COKER 355 | 26.9 | ---- | 10/ 1 | 31 | 3 |
| YIELD KING 577 | 26.5 | ---- | 10/ 1 | 37 | 3 |
| TERRA-VIG 515 | 26.2 | 33.9 | 10/ 3 | 32 | 3 |
| HARTZ 5370 | 26.2 | 25.4 | 10/ 3 | 32 | 3 |
| DELTAPINE 675 | 25.7 | ---- | 10/ 1 | 37 | 3 |
| RA 480 | 24.5 | ---- | 10/ 3 | 34 | 2 |
| TERRA-VIG 553 | 24.5 | ---- | 10/ 2 | 31 | 2 |
| YIELD KING 503 | 24.3 | 22.4 | 10/ 2 | 37 | 2 |
| BEDFORD | 23.8 | 23.9 | 10/ 3 | 40 | 3 |
| BUCKSHOT 500 | 22.0 | ---- | 10/ 3 | 34 | 2 |
| Overall Mean | 27.1 | | | | |
| LSD @ .10 =..... | 3.4 | | | | |
| Standard Error of Mean..... | 1.4 | | | | |
| Error Degrees of Freedom..... | 46 | | | | |
| CV =..... | 10.6 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 6. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES BLACK BELT BRANCH (Location 6) on silty clay soil. The maturity group is VI.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| CENTENNIAL | 27.0 | 30.0 | 10/14 | 36 | 3 |
| RA 680 | 29.0 | ---- | 10/14 | 39 | 3 |
| S69-54 | 28.4 | ---- | 10/13 | 35 | 3 |
| DELTAPINE 726 | 28.3 | ---- | 10/16 | 37 | 3 |
| COKER 686 | 28.0 | ---- | 10/13 | 36 | 2 |
| DELTAPINE 566 | 28.0 | 28.8 | 10/16 | 37 | 2 |
| YIELD KING 696 | 27.4 | ---- | 10/14 | 36 | 3 |
| EXP 3305 (EXP.) | 27.2 | ---- | 10/ 6 | 38 | 3 |
| DAVIS | 27.2 | 27.9 | 10/ 6 | 36 | 3 |
| TERRA-VIG 616 | 26.7 | 27.0 | 10/13 | 36 | 3 |
| SANALONA | 26.5 | ---- | 10/ 6 | 35 | 3 |
| TRACY-M | 25.9 | 27.9 | 10/ 8 | 36 | 3 |
| YIELD KING 593 | 25.9 | 25.6 | 10/ 7 | 38 | 3 |
| DELTAPINE 506 | 25.6 | 25.9 | 10/16 | 40 | 3 |
| YIELD KING 613 | 25.5 | 27.4 | 10/ 6 | 43 | 3 |
| J77-339 (EXP.) | 23.7- | 17.9 | 10/10 | 46 | 3 |
| RA 606 | 22.4- | ---- | 10/ 6 | 43 | 3 |
| SAMPSON | 21.9- | ---- | 10/16 | 34 | 2 |
| LEFLORE | 21.8- | 23.4 | 10/15 | 35 | 3 |
| YOUNG | 21.3- | ---- | 10/ 6 | 37 | 3 |
| COKER 6716 | 21.0- | ---- | 10/ 6 | 36 | 2 |
| SPARTAN | 19.5- | ---- | 10/17 | 34 | 3 |
| Overall Mean | 25.4 | | | | |
| LSD @ .10 =..... | 3.1 | | | | |
| Standard Error of Mean..... | 1.3 | | | | |
| Error Degrees of Freedom..... | 46 | | | | |
| CV =..... | 10.3 | | | | |

(+) and (=) are indicators of statistical differences as compared to the standard

TABLE 6. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES BLACK BELT BRANCH (Location 6) on silty clay soil. The maturity group is VII.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| BRAXTON | 23.6 | 28.9 | 10/20 | 40 | 2 |
| COKER 6727 | 28.4+ | ---- | 10/17 | 34 | 3 |
| COKER 82-606 (EXP.) | 28.2+ | ---- | 10/17 | 38 | 2 |
| HARTZ 7126 | 24.1 | 27.5 | 10/17 | 38 | 3 |
| TERRA-VIG 708 | 24.1 | ---- | 10/20 | 38 | 3 |
| DELTAPINE 417 | 24.1 | 26.0 | 10/20 | 37 | 3 |
| STARR | 23.2 | ---- | 10/20 | 35 | 3 |
| COKER 627 | 23.1 | ---- | 10/18 | 41 | 3 |
| YIELD KING 707 | 23.0 | ---- | 10/18 | 45 | 3 |
| WILSTAR 790 | 23.0 | 25.6 | 10/20 | 40 | 3 |
| BRAGG | 22.9 | 25.5 | 10/17 | 42 | 3 |
| WRIGHT | 22.9 | 25.8 | 10/18 | 40 | 3 |
| YIELD KING 757 | 22.6 | ---- | 10/20 | 44 | 3 |
| TERRA-VIG 717 | 22.1 | ---- | 10/17 | 34 | 3 |
| DELTAPINE 497 | 21.8 | 26.5 | 10/20 | 37 | 3 |
| GORDON | 21.6 | 23.1 | 10/17 | 41 | 3 |
| RA 702 | 21.6 | ---- | 10/18 | 36 | 3 |
| Overall Mean | 22.7 | | | | |
| LSD @ .10 =..... | 3.4 | | | | |
| Standard Error of Mean..... | 1.4 | | | | |
| Error Degrees of Freedom..... | 46 | | | | |
| CV =..... | 12.8 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

Location 7...MAFES Brown Loam Branch

Soil type...Henry silt loam
 Soil pH...5.6
 Soil fertility...P - high, K = high
 Fertilizer added...200 lb 0-17-34
 Row width...38 inches
 Herbicide application...Treflan at 0.75 lb a.i./acre PPI
 Basagran at 0.50 lb a.i./acre plus
 Blazer at 0.25 lb a.i./acre overhead
 Lorox at 1.0 lb a.i./acre plus
 2,4-DB at 0.2 lb a.i./acre post directed

Planting date...May 23

Harvest date...Group V October 6
 Group VI October 28
 Group VII October 28
 Group VIII October 28

Rainfall 1986

| <u>Month</u> | <u>Days</u> | <u>Inches</u> | <u>Month</u> | <u>Days</u> | <u>Inches</u> |
|--------------|-------------|---------------|--------------|-------------|---------------|
| May | 1 - 5 | 0.17 | August | 1 - 5 | 0.02 |
| | 6 - 10 | 0.00 | | 6 - 10 | 0.00 |
| | 11 - 15 | 0.94 | | 11 - 15 | 0.26 |
| | 16 - 20 | 1.82 | | 16 - 20 | 0.65 |
| | 21 - 25 | 0.70 | | 21 - 25 | 0.41 |
| | 26 - 31 | <u>3.31</u> | | 26 - 31 | <u>0.43</u> |
| | Total | 6.94 | | Total | 1.77 |
| June | 1 - 5 | 0.24 | September | 1 - 5 | 0.61 |
| | 6 - 10 | 0.63 | | 6 - 10 | 0.63 |
| | 11 - 15 | 0.48 | | 11 - 15 | 2.54 |
| | 16 - 20 | 0.00 | | 16 - 20 | 0.01 |
| | 21 - 25 | 0.00 | | 21 - 25 | 0.97 |
| | 26 - 30 | <u>1.85</u> | | 26 - 30 | <u>0.00</u> |
| | Total | 3.20 | | Total | 4.76 |
| July | 1 - 5 | 0.56 | October | 1 - 5 | 0.03 |
| | 6 - 10 | 0.99 | | 6 - 10 | 1.87 |
| | 11 - 15 | 0.00 | | 11 - 15 | 4.46 |
| | 16 - 20 | 0.20 | | 16 - 20 | 0.00 |
| | 21 - 25 | 0.39 | | 21 - 25 | 1.67 |
| | 26 - 31 | <u>0.00</u> | | 26 - 31 | <u>0.00</u> |
| | Total | 2.14 | | Total | 8.03 |

TABLE 7. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES BROWN LOAM BRANCH (Location 7) on silty loam soil. The maturity group is V.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| FORREST | 31.4 | 35.5 | 9/21 | 32 | 2 |
| DELTAPINE 345 | 40.9+ | 36.8 | 9/28 | 35 | 2 |
| DELTAPINE 105 | 36.5+ | 37.8 | 10/ 2 | 34 | 2 |
| COKER 355 | 32.2 | ---- | 9/28 | 29 | 2 |
| A 5980 | 30.9 | 34.7 | 9/22 | 34 | 2 |
| COKER 485 | 30.1 | ---- | 9/30 | 30 | 2 |
| DELTAPINE 675 | 29.5 | ---- | 9/24 | 32 | 2 |
| EPPS | 28.3 | 31.2 | 9/24 | 29 | 2 |
| TERRA-VIG 515 | 28.2 | 36.1 | 9/29 | 30 | 2 |
| HARTZ 5370 | 28.0 | 34.8 | 9/20 | 32 | 2 |
| DELTAPINE 415 | 27.8 | ---- | 9/20 | 29 | 2 |
| HARTZ X5164 | 27.1 | ---- | 9/24 | 32 | 2 |
| HARTZ 5171 | 27.1 | 32.0 | 9/28 | 36 | 2 |
| TERRA-VIG 553 | 25.9- | 33.0 | 9/26 | 30 | 2 |
| HARTZ 5252 | 25.1- | 33.0 | 9/24 | 30 | 2 |
| WILSTAR 550 | 25.1- | 31.4 | 9/23 | 27 | 2 |
| BEDFORD | 22.7- | 29.2 | 9/22 | 36 | 2 |
| Overall Mean | 28.1 | | | | |
| LSD @ .10 =..... | 5.0 | | | | |
| Standard Error of Mean..... | 2.1 | | | | |
| Error Degrees of Freedom..... | 46 | | | | |
| CV =..... | 15.1 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 7. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES BROWN LOAM BRANCH (Location 7) on silty loam soil. The maturity group is VI.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| CENTENNIAL | 32.1 | 33.8 | 10/14 | 34 | 3 |
| COKER 156 | 37.2 | 33.8 | 10/ 9 | 33 | 3 |
| TERRA-VIG 616 | 37.0 | 37.0 | 10/19 | 34 | 3 |
| DELTAPINE 726 | 36.2 | ----- | 10/10 | 34 | 3 |
| HARTZ 6383R | 36.1 | 35.0 | 10/18 | 36 | 3 |
| HARTZ 6130 | 34.8 | 32.4 | 10/12 | 37 | 3 |
| RA 680 | 34.5 | ----- | 10/12 | 36 | 3 |
| A 6785 | 33.7 | ----- | 10/19 | 33 | 3 |
| HARTZ X6385 | 33.6 | ----- | 10/17 | 36 | 3 |
| SPARTAN | 33.5 | 32.5 | 10/20 | 37 | 3 |
| A 6520 | 33.1 | 32.8 | 10/12 | 28 | 2 |
| FFR 668 | 33.1 | 35.3 | 10/21 | 38 | 2 |
| TERRA-VIG 606 | 33.0 | ----- | 10/10 | 35 | 2 |
| COKER 686 | 33.0 | ----- | 10/19 | 34 | 2 |
| DELTAPINE 566 | 33.0 | 34.4 | 10/18 | 34 | 3 |
| EXP 3305 (EXP.) | 32.7 | ----- | 10/18 | 36 | 3 |
| RA 606 | 32.5 | ----- | 10/19 | 40 | 3 |
| TRACY-M | 32.3 | 29.3 | 10/ 8 | 33 | 3 |
| DELTAPINE 506 | 32.1 | 33.0 | 10/20 | 38 | 3 |
| DAVIS | 31.8 | 29.5 | 10/18 | 40 | 2 |
| A 6242 | 29.7 | 27.4 | 10/10 | 31 | 3 |
| LEFLORE | 29.5 | 33.4 | 10/14 | 32 | 2 |
| SAMPSON | 27.6 | 32.0 | 10/16 | 33 | 2 |
| J77-339 (EXP.) | 26.0- | 18.9 | 10/ 9 | 37 | 3 |
| COKER 6716 | 25.2- | ----- | 10/10 | 34 | 2 |
| YOUNG | 24.5- | ----- | 10/ 7 | 32 | 3 |
| Overall Mean | 32.2 | | | | |
| LSD @ .10 =..... | 5.7 | | | | |
| Standard Error of Mean..... | 2.4 | | | | |
| Error Degrees of Freedom..... | 58 | | | | |
| CV =..... | 15.0 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 7. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES BROWN LOAM BRANCH (Location 7) on silty loam soil. The maturity group is VII.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity* Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|-------------------|---------------------------|-----------------------|
| BRAXTON | 44.5 | 34.9 | 0/ 0 | 44 | 3 |
| COKER 6727 | 48.9 | ---- | 0/ 0 | 37 | 3 |
| HARTZ 7126 | 47.5 | 40.6 | 0/ 0 | 42 | 3 |
| TERRA-VIG 708 | 45.1 | 37.6 | 0/ 0 | 35 | 3 |
| WILSTAR 790 | 43.8 | 36.7 | 0/ 0 | 40 | 3 |
| GORDON | 43.4 | 36.6 | 0/ 0 | 42 | 3 |
| TERRA-VIG 717 | 43.1 | 37.4 | 0/ 0 | 36 | 3 |
| WRIGHT | 42.8 | 36.0 | 0/ 0 | 38 | 3 |
| COKER 82-606 (EXP.) | 42.7 | ---- | 0/ 0 | 36 | 3 |
| FFR 771 | 41.6 | ---- | 0/ 0 | 43 | 3 |
| COKER 627 | 41.5 | ---- | 0/ 0 | 40 | 3 |
| EXP 1409 (EXP.) | 41.0 | ---- | 0/ 0 | 35 | 3 |
| DELTAPINE 497 | 41.0 | 34.8 | 0/ 0 | 44 | 3 |
| STARR | 38.7 | 34.3 | 0/ 0 | 31 | 3 |
| A 7986 | 38.3 | ---- | 0/ 0 | 38 | 3 |
| DELTAPINE 417 | 38.2 | 34.1 | 0/ 0 | 48 | 3 |
| BRAGG | 35.3- | 29.0 | 0/ 0 | 42 | 3 |
| HARTZ 7110 | 33.8- | ---- | 0/ 0 | 38 | 3 |
| Overall Mean | 40.7 | | | | |
| LSD @ .10 =..... | 6.7 | | | | |
| Standard Error of Mean..... | 2.8 | | | | |
| Error Degrees of Freedom..... | 46 | | | | |
| CV =..... | 13.9 | | | | |

* Green stems when pods were mature interfered with maturity

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 7. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES BROWN LOAM BRANCH (Location 7) on silty loam soil. The maturity group is VIII.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity* Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|-------------------|---------------------------|-----------------------|
| FOSTER | 32.4 | 34.6 | 0/ 0 | 38 | 3 |
| COKER 6738 | 39.4+ | ---- | 0/ 0 | 38 | 3 |
| JOHNSTON | 38.5 | 37.8 | 0/ 0 | 33 | 2 |
| TERRA-VIG 808 | 35.8 | 35.9 | 0/ 0 | 30 | 3 |
| HARTZ 8112 | 33.0 | 31.9 | 0/ 0 | 37 | 2 |
| HUTTON | 32.6 | 33.4 | 0/ 0 | 34 | 3 |
| COBB | 31.5 | 38.8 | 0/ 0 | 43 | 3 |
| COKER 368 | 30.3 | 33.6 | 0/ 0 | 40 | 2 |
| KIRBY | 25.9 | 33.0 | 0/ 0 | 36 | 3 |
| Overall Mean | 32.0 | | | | |
| LSD @ .10 =..... | 6.8 | | | | |
| Standard Error of Mean..... | 2.8 | | | | |
| Error Degrees of Freedom..... | 22 | | | | |
| CV =..... | 17.5 | | | | |

* Green stems when pods were mature interfered with maturity

(+) and (-) are indicators of statistical differences as compared to the standard

Location 8...MAFES Coastal Plain Branch

Soil type...Prentiss fine sandy loam
 Soil pH...6.4
 Soil fertility...P - high, K - medium
 Fertilizer added...100 lb 0-0-60
 Row width...38 inches
 Herbicide application...Treflan at 1.0 lb a.i./acre PPI
 Blazer at 0.25 lb a.i./acre, over the top
 2,4-DB at 0.125 lb a.i./acre post directed
 two different times

Planting date...June 4

Harvest date...Group V October 21
 Group VI October 21
 Group VII November 13
 Group VIII November 13

Rainfall 1986

| <u>Month</u> | <u>Days</u> | <u>Inches</u> | <u>Month</u> | <u>Days</u> | <u>Inches</u> |
|--------------|-------------|---------------|--------------|-------------|---------------|
| May | 1 - 5 | 0.20 | August | 1 - 5 | 0.00 |
| | 6 - 10 | 0.00 | | 6 - 10 | 0.00 |
| | 11 - 15 | 2.79 | | 11 - 15 | 1.61 |
| | 16 - 20 | 1.54 | | 16 - 20 | 2.10 |
| | 21 - 25 | 0.21 | | 21 - 25 | 0.10 |
| | 26 - 31 | <u>1.67</u> | | 26 - 31 | <u>0.14</u> |
| | Total | 6.41 | | Total | 3.95 |
| June | 1 - 5 | 0.20 | September | 1 - 5 | 3.05 |
| | 6 - 10 | 0.20 | | 6 - 10 | 0.50 |
| | 11 - 15 | 0.20 | | 11 - 15 | 0.32 |
| | 16 - 20 | 0.00 | | 16 - 20 | 0.00 |
| | 21 - 25 | 0.95 | | 21 - 25 | 0.52 |
| | 26 - 30 | <u>0.20</u> | | 26 - 30 | <u>0.00</u> |
| | Total | 1.75 | | Total | 4.39 |
| July | 1 - 5 | 0.20 | October | 1 - 5 | 1.58 |
| | 6 - 10 | 0.00 | | 6 - 10 | 1.11 |
| | 11 - 15 | 0.72 | | 11 - 15 | 3.64 |
| | 16 - 20 | 1.30 | | 16 - 20 | 0.00 |
| | 21 - 25 | 0.60 | | 21 - 25 | 1.09 |
| | 26 - 31 | <u>1.17</u> | | 26 - 31 | <u>0.00</u> |
| | Total | 3.99 | | Total | 7.42 |

TABLE 8. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES COASTAL PLAIN BRANCH (Location 8) on sandy loam soil. The maturity group is V.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| FORREST | 44.8 | 35.3 | 9/22 | 34 | 3 |
| DELTAPINE 105 | 47.1 | 42.6 | 9/24 | 35 | 3 |
| WILSTAR 550 | 46.1 | 38.3 | 10/ 1 | 30 | 3 |
| EX655 (EXP.) | 45.7 | ---- | 9/25 | 36 | 3 |
| COKER 485 | 43.7 | ---- | 10/ 2 | 32 | 3 |
| DELTAPINE 675 | 42.1 | ---- | 10/ 3 | 35 | 2 |
| TERRA-VIG 515 | 40.0 | 40.5 | 10/ 6 | 31 | 3 |
| DELTAPINE 415 | 38.9 | ---- | 9/20 | 34 | 3 |
| TERRA-VIG 553 | 38.1- | ---- | 10/ 1 | 36 | 3 |
| BEDFORD | 36.7- | 30.9 | 10/ 5 | 40 | 3 |
| CX415 | 20.1- | ---- | 9/20 | 28 | 3 |
| Overall Mean | 40.4 | | | | |
| LSD @ .10 =..... | 6.2 | | | | |
| Standard Error of Mean..... | 2.6 | | | | |
| Error Degrees of Freedom..... | 28 | | | | |
| CV =..... | 12.7 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 8. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES COASTAL PLAIN BRANCH (Location 8) on sandy loam soil. The maturity group is VI.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| CENTENNIAL | 46.2 | 33.1 | 10/16 | 36 | 3 |
| YOUNG | 49.6 | ---- | 10/14 | 38 | 3 |
| COKER 6716 | 47.4 | ---- | 10/10 | 35 | 2 |
| SHILOH | 46.0 | 35.5 | 10/21 | 36 | 3 |
| COKER 686 | 44.9 | ---- | 10/20 | 34 | 3 |
| DELTAPINE 566 | 44.5 | 35.1 | 10/21 | 37 | 2 |
| SANALONA | 44.5 | ---- | 10/12 | 35 | 3 |
| SAMPSON | 44.0 | ---- | 10/22 | 33 | 3 |
| TERRA-VIG 606 | 43.7 | ---- | 10/ 9 | 36 | 3 |
| RA 680 | 43.3 | 31.6 | 10/11 | 33 | 3 |
| DAVIS | 39.6- | 27.1 | 10/16 | 35 | 3 |
| TERRA-VIG 616 | 39.4- | 32.4 | 10/14 | 37 | 3 |
| DELTAPINE 506 | 38.4- | 30.8 | 10/16 | 37 | 3 |
| TRACY-M | 38.0- | 31.3 | 10/ 8 | 34 | 3 |
| J77-339 (EXP.) | 36.9- | 22.4 | 10/18 | 39 | 3 |
| LEFLORE | 36.2- | 28.2 | 10/18 | 38 | 3 |
| FFR 668 | 36.1- | ---- | 10/16 | 36 | 3 |
| SPARTAN | 33.2- | ---- | 10/21 | 38 | 4 |
| Overall Mean | 40.1 | | | | |
| LSD @ .10 =..... | 6.1 | | | | |
| Standard Error of Mean..... | 2.6 | | | | |
| Error Degrees of Freedom..... | 48 | | | | |
| CV =..... | 12.7 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 8. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES COASTAL PLAIN BRANCH (Location 8) on sandy loam soil. The maturity group is VII.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| BRAXTON | 43.9 | 35.9 | 10/28 | 35 | 3 |
| A 7986 | 47.5 | ---- | 10/26 | 36 | 2 |
| DELTAPINE 417 | 43.8 | ---- | 10/18 | 40 | 3 |
| DELTAPINE 497 | 43.7 | 37.5 | 10/18 | 38 | 3 |
| TERRA-VIG 708 | 43.4 | ---- | 11/ 6 | 31 | 3 |
| COKER 82-606 (EXP.) | 42.5 | ---- | 10/16 | 31 | 2 |
| COKER 627 | 42.5 | ---- | 10/29 | 33 | 3 |
| WILSTAR 790 | 41.8 | 31.7 | 11/ 3 | 36 | 3 |
| COKER 6727 | 41.4 | ---- | 10/18 | 31 | 3 |
| TERRA-VIG 717 | 38.9 | ---- | 11/ 2 | 32 | 3 |
| FFR 771 | 38.5 | ---- | 10/25 | 44 | 3 |
| STARR | 36.9 | ---- | 10/25 | 29 | 2 |
| GORDON | 33.6 | 27.5 | 10/17 | 36 | 3 |
| WRIGHT | 33.2 | 29.3 | 10/30 | 34 | 3 |
| BRAGG | 32.4 | 26.8 | 10/20 | 38 | 3 |
| Overall Mean | 39.6 | | | | |
| LSD @ .10 =..... | NS | | | | |
| Standard Error of Mean..... | 2.9 | | | | |
| Error Degrees of Freedom..... | 38 | | | | |
| CV =..... | 14.5 | | | | |

(+) and (=) are indicators of statistical differences as compared to the standard

TABLE 8. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES COASTAL PLAIN BRANCH (Location 8) on sandy loam soil. The maturity group is VIII.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| FOSTER | 38.2 | 28.0 | 10/26 | 33 | 3 |
| HARTZ 8112 | 44.8 | 32.5 | 10/30 | 32 | 3 |
| COKER 6738 | 41.5 | ---- | 10/18 | 33 | 3 |
| COBB | 38.5 | 29.0 | 11/ 3 | 38 | 3 |
| KIRBY | 37.9 | 30.8 | 11/ 1 | 31 | 3 |
| COKER 368 | 35.4 | 30.4 | 10/26 | 31 | 3 |
| TERRA-VIG 808 | 33.2 | ---- | 10/18 | 28 | 3 |
| JOHNSTON | 31.5 | 27.7 | 10/18 | 30 | 2 |
| HUTTON | 25.4 | 23.6 | 10/28 | 30 | 3 |
| Overall Mean | 35.8 | | | | |
| LSD @ .10 =..... | NS | | | | |
| Standard Error of Mean..... | 3.9 | | | | |
| Error Degrees of Freedom..... | 28 | | | | |
| CV =..... | 21.6 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

Location 9...McNeill Unit of MAFES South Mississippi Branch

Soil type...Blakely loam level
 Soil pH...5.7
 Soil fertility...P - high, K - low
 Fertilizer added...100 lb 0-0-60
 Row width...40 inches
 Herbicide application...Lasso @ 3.0 lb a.i./acre after planting
 and before plant emergence.
 Septer 0.125 lb a.i./acre over the top
 two different times

Planting date...June 19

Harvest date...Group V October 20
 Group VI October 20
 Group VII December 3
 Group VIII December 3

Rainfall 1986

| <u>Month</u> | <u>Days</u> | <u>Inches</u> | <u>Month</u> | <u>Days</u> | <u>Inches</u> |
|--------------|-------------|---------------|--------------|-------------|---------------|
| May | 1 - 5 | 0.00 | August | 1 - 5 | 0.82 |
| | 6 - 10 | 0.04 | | 6 - 10 | 0.00 |
| | 11 - 15 | 1.09 | | 11 - 15 | 2.84 |
| | 16 - 20 | 1.42 | | 16 - 20 | 0.34 |
| | 21 - 25 | 0.00 | | 21 - 25 | 0.34 |
| | 26 - 31 | <u>4.69</u> | | 26 - 31 | <u>0.33</u> |
| | Total | 7.24 | | Total | 4.67 |
| June | 1 - 5 | 0.53 | September | 1 - 5 | 3.22 |
| | 6 - 10 | 0.69 | | 6 - 10 | 0.25 |
| | 11 - 15 | 0.28 | | 11 - 15 | 0.21 |
| | 16 - 20 | 1.00 | | 16 - 20 | 0.76 |
| | 21 - 25 | 0.01 | | 21 - 25 | 0.25 |
| | 26 - 30 | <u>0.03</u> | | 26 - 30 | <u>0.00</u> |
| | Total | 2.54 | | Total | 4.89 |
| July | 1 - 5 | 0.31 | October | 1 - 5 | 0.05 |
| | 6 - 10 | 0.31 | | 6 - 10 | 0.55 |
| | 11 - 15 | 0.08 | | 11 - 15 | 2.25 |
| | 16 - 20 | 0.43 | | 16 - 20 | 0.00 |
| | 21 - 25 | 0.70 | | 21 - 25 | 0.96 |
| | 26 - 31 | <u>0.08</u> | | 26 - 31 | <u>0.00</u> |
| | Total | 1.91 | | Total | 3.81 |

TABLE 9. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES MCNEILL UNIT SOUTH MISSISSIPPI BRANCH (Location 9) on sandy loam soil. The maturity group is V.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| FORREST | 19.8 | 21.1 | 10/ 1 | 23 | 2 |
| HARTZ X5164 | 23.3 | ----- | 10/ 1 | 24 | 2 |
| COKER 485 | 23.1 | ----- | 10/ 2 | 24 | 2 |
| DELTAPINE 415 | 22.3 | ----- | 9/30 | 22 | 2 |
| TERRA-VIG 505 | 22.2 | ----- | 10/ 1 | 24 | 3 |
| TERRA-VIG 515 | 20.3 | 20.0 | 10/ 1 | 24 | 2 |
| DELTAPINE 105 | 19.7 | 23.4 | 9/30 | 22 | 2 |
| HARTZ 5370 | 19.7 | 21.7 | 10/ 1 | 23 | 2 |
| DELTAPINE 675 | 18.9 | ----- | 10/ 1 | 24 | 2 |
| BEDFORD | 17.7 | 17.7 | 10/ 1 | 28 | 2 |
| WILSTAR 550 | 16.5 | 21.5 | 9/30 | 18 | 3 |
| TERRA-VIG 553 | 14.2- | 19.8 | 9/30 | 23 | 2 |
| Overall Mean | 19.8 | | | | |
| LSD @ .10 =..... | 4.2 | | | | |
| Standard Error of Mean..... | 1.7 | | | | |
| Error Degrees of Freedom..... | 22 | | | | |
| CV =..... | 17.4 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 9. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES MCNEILL UNIT SOUTH MISSISSIPPI BRANCH (Location 9) on sandy loam soil. The maturity group is VI.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| CENTENNIAL | 24.7 | 29.1 | 10/ 9 | 25 | 2 |
| SAMPSON | 26.2 | ---- | 10/13 | 23 | 2 |
| YOUNG | 25.0 | ---- | 10/ 3 | 27 | 2 |
| FFR 668 | 24.9 | 28.0 | 10/16 | 26 | 2 |
| SPARTAN | 24.8 | ---- | 10/13 | 27 | 2 |
| TRACY-M | 24.7 | 25.4 | 10/ 3 | 25 | 3 |
| COKER 686 | 24.1 | ---- | 10/ 9 | 24 | 2 |
| COKER 156 | 23.6 | 26.9 | 10/ 9 | 22 | 2 |
| HARTZ 6383R | 23.5 | 27.9 | 10/11 | 25 | 2 |
| DAVIS | 23.3 | 26.3 | 10/ 3 | 27 | 2 |
| RA 606 | 23.2 | 25.8 | 10/ 3 | 28 | 3 |
| HARTZ X6385 | 23.0 | ---- | 10/11 | 25 | 2 |
| DELTAPINE 506 | 22.5 | 30.8 | 10/13 | 27 | 2 |
| RA 680 | 21.7 | ---- | 10/ 9 | 27 | 2 |
| COKER 6716 | 21.6 | ---- | 10/ 3 | 23 | 2 |
| HARTZ 6130 | 21.4 | 26.6 | 10/ 3 | 24 | 2 |
| TERRA-VIG 616 | 20.9 | 28.4 | 10/ 9 | 21 | 2 |
| LEFLORE | 19.9- | 29.1 | 10/ 9 | 24 | 2 |
| DELTAPINE 566 | 17.8- | ---- | 10/11 | 25 | 2 |
| J77-339 (EXP.) | 14.4- | 20.5 | 10/ 9 | 27 | 2 |
| Overall Mean | 22.8 | | | | |
| LSD @ .10 =..... | 4.2 | | | | |
| Standard Error of Mean..... | 1.8 | | | | |
| Error Degrees of Freedom..... | 46 | | | | |
| CV =..... | 15.5 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 9. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES MCNEILL UNIT SOUTH MISSISSIPPI BRANCH (Location 9) on sandy loam soil. The maturity group is VII .

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| BRAXTON | 21.6 | 34.0 | 10/17 | 26 | 2 |
| A 7986 | 21.7 | ---- | 10/25 | 24 | 2 |
| HARTZ 7126 | 19.5 | 30.1 | 10/13 | 25 | 2 |
| COKER 82-606 (EXP.) | 18.8 | ---- | 10/14 | 23 | 2 |
| COKER 627 | 18.2- | ---- | 10/11 | 23 | 2 |
| COKER 6727 | 18.1- | ---- | 10/11 | 22 | 2 |
| TERRA-VIG 708 | 18.1- | 28.8 | 10/15 | 22 | 2 |
| GORDON | 16.9- | 28.6 | 10/11 | 30 | 2 |
| WRIGHT | 16.5- | 29.4 | 10/14 | 28 | 2 |
| HARTZ 7110 | 15.9- | ---- | 10/11 | 26 | 2 |
| DELTAPINE 417 | 15.6- | ---- | 10/14 | 31 | 2 |
| WILSTAR 790 | 15.0- | 30.6 | 10/24 | 28 | 2 |
| DELTAPINE 497 | 14.9- | 29.7 | 10/17 | 28 | 2 |
| BRAGG | 14.0- | 26.4 | 10/15 | 26 | 2 |
| TERRA-VIG 717 | 13.9- | 28.9 | 10/14 | 24 | 2 |
| FFR 771 | 13.3- | ---- | 10/24 | 30 | 2 |
| STARR | 12.1- | ---- | 10/13 | 22 | 2 |
| Overall Mean | 16.7 | | | | |
| LSD @ .10 =..... | 2.9 | | | | |
| Standard Error of Mean..... | 1.2 | | | | |
| Error Degrees of Freedom..... | 34 | | | | |
| CV =..... | 14.6 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 9. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES MCNEILL UNIT SOUTH MISSISSIPPI BRANCH (Location 9) on sandy loam soil. The maturity group is VIII.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| FOSTER | 16.6 | 23.6 | 10/17 | 24 | 2 |
| COKER 6738 | 22.1 | --- | 10/24 | 26 | 2 |
| COKER 368 | 16.3 | 28.2 | 10/21 | 28 | 2 |
| HARTZ 8112 | 16.1 | 29.2 | 10/17 | 30 | 2 |
| COBB | 16.0 | 26.1 | 10/25 | 28 | 3 |
| TERRA-VIG 808 | 14.2 | 25.5 | 10/21 | 23 | 2 |
| KIRBY | 13.9 | 19.8 | 10/25 | 27 | 2 |
| JOHNSTON | 13.4 | 29.5 | 10/16 | 25 | 2 |
| HUTTON | 12.8 | 20.4 | 10/21 | 26 | 2 |
| Overall Mean | 15.7 | | | | |
| LSD @ .10 =..... | NS | | | | |
| Standard Error of Mean..... | 1.6 | | | | |
| Error Degrees of Freedom..... | 22 | | | | |
| CV =..... | 20.0 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

Location 10...Beaumont Unit of the MAFES South Mississippi Branch

Soil type...Lucedale fine sandy loam
 Soil pH...5.3
 Soil fertility...P - medium, K - high
 Fertilizer added...100 lb 0-60-60
 1 ton lime incorporated
 Row width...36 inches
 Herbicide application...Septer at 0.064 lb a.i./acre over the top
 Septer at 0.125 lb a.i./acre PPI
 Treflan at 0.75 lb a.i./acre PPI
 Toxaphene at 1.0 lb a.i./acre overhead
 2,4-DB 1 pint as a directed spray three
 different times

Planting date...June 2

Harvest date...Group V October 20
 Group VI October 20
 Group VII November 19
 Group VIII November 19

Rainfall 1986

| <u>Month</u> | <u>Days</u> | <u>Inches</u> | <u>Month</u> | <u>Days</u> | <u>Inches</u> |
|--------------|-------------|---------------|--------------|-------------|---------------|
| May | 1 - 5 | 0.00 | August | 1 - 5 | 0.11 |
| | 6 - 10 | 0.04 | | 6 - 10 | 2.29 |
| | 11 - 15 | 0.35 | | 11 - 15 | 2.20 |
| | 16 - 20 | 1.22 | | 16 - 20 | 3.54 |
| | 21 - 25 | 0.00 | | 21 - 25 | 0.12 |
| | 26 - 31 | <u>3.49</u> | | 26 - 31 | <u>1.00</u> |
| | Total | 5.10 | | Total | 9.26 |
| June | 1 - 5 | 0.00 | September | 1 - 5 | 2.02 |
| | 6 - 10 | 0.15 | | 6 - 10 | 0.34 |
| | 11 - 15 | 0.46 | | 11 - 15 | 0.47 |
| | 16 - 20 | 0.73 | | 16 - 20 | 0.43 |
| | 21 - 25 | 0.69 | | 21 - 25 | 0.00 |
| | 26 - 30 | <u>0.29</u> | | 26 - 30 | <u>0.36</u> |
| | Total | 2.32 | | Total | 3.62 |
| July | 1 - 5 | 1.00 | October | 1 - 5 | 0.40 |
| | 6 - 10 | 0.00 | | 6 - 10 | 0.37 |
| | 11 - 15 | 0.51 | | 11 - 15 | 1.21 |
| | 16 - 20 | 2.86 | | 16 - 20 | 0.00 |
| | 21 - 25 | 0.31 | | 21 - 25 | 0.78 |
| | 26 - 31 | <u>0.00</u> | | 26 - 31 | <u>0.00</u> |
| | Total | 4.68 | | Total | 2.76 |

TABLE 10. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES BEAUMONT UNIT SOUTH MISSISSIPPI BRANCH (Location 10) on sandy loam soil. The maturity group is V.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| FORREST | 27.8 | 28.4 | 9/22 | 32 | 3 |
| TERRA-VIG 515 | 33.5+ | 34.2 | 9/27 | 31 | 3 |
| COKER 485 | 32.8+ | ---- | 9/26 | 30 | 3 |
| WILSTAR 550 | 30.7 | 32.1 | 9/24 | 30 | 3 |
| DELTAPINE 105 | 29.6 | ---- | 9/23 | 33 | 3 |
| DELTAPINE 415 | 27.9 | ---- | 9/25 | 31 | 2 |
| TERRA-VIG 553 | 25.9 | ---- | 9/19 | 30 | 3 |
| BEDFORD | 24.8 | 28.0 | 9/22 | 33 | 3 |
| Overall Mean | 28.2 | | | | |
| LSD @ .10 =..... | 3.7 | | | | |
| Standard Error of Mean..... | 1.5 | | | | |
| Error Degrees of Freedom..... | 22 | | | | |
| CV =..... | 10.7 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 10. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES BEAUMONT UNIT SOUTH MISSISSIPPI BRANCH (Location 10) on sandy loam soil. The maturity group is VI.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| CENTENNIAL | 27.8 | 35.6 | 10/ 8 | 33 | 2 |
| COKER 686 | 34.3+ | ---- | 10/ 6 | 32 | 2 |
| LEFLORE | 33.7+ | 37.6 | 10/ 6 | 34 | 3 |
| S69-54 | 32.6+ | ---- | 10/ 5 | 29 | 2 |
| COKER 6716 | 31.7+ | ---- | 10/ 1 | 32 | 2 |
| TRACY-M | 31.4 | 28.0 | 10/ 4 | 33 | 3 |
| YOUNG | 30.7 | ---- | 10/ 2 | 34 | 3 |
| RA 680 | 30.6 | ---- | 10/ 6 | 35 | 2 |
| YIELD KING 696 | 30.5 | ---- | 10/ 8 | 32 | 2 |
| SPARTAN | 30.1 | 24.3 | 10/10 | 35 | 3 |
| TERRA-VIG 616 | 29.4 | 32.4 | 10/ 6 | 34 | 3 |
| SAMPSON | 28.8 | ---- | 10/10 | 30 | 2 |
| DELTAPINE 566 | 28.3 | ---- | 10/ 8 | 31 | 2 |
| DAVIS | 27.5 | 27.2 | 10/ 1 | 34 | 2 |
| J77-339 (EXP.) | 25.9 | 21.7 | 10/ 8 | 36 | 3 |
| Overall Mean | 30.7 | | | | |
| LSD @ .10 =..... | 3.7 | | | | |
| Standard Error of Mean..... | 1.5 | | | | |
| Error Degrees of Freedom..... | 34 | | | | |
| CV =..... | 10.1 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 10. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES BEAUMONT UNIT SOUTH MISSISSIPPI BRANCH (Location 10) on sandy loam soil. The maturity group is VII.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| BRAXTON | 29.4 | 27.6 | 10/10 | 34 | 3 |
| COKER 6727 | 33.4 | ---- | 10/ 9 | 31 | 3 |
| A 7986 | 32.5 | ---- | 10/25 | 34 | 2 |
| COKER 82-606 (EXP.) | 30.2 | ---- | 10/ 9 | 32 | 3 |
| FFR 771 | 29.6 | ---- | 10/15 | 41 | 3 |
| YIELD KING 707 | 29.0 | ---- | 10/10 | 39 | 3 |
| GORDON | 28.6 | 33.5 | 10/20 | 34 | 3 |
| YIELD KING 757 | 28.0 | ---- | 10/10 | 36 | 3 |
| STARR | 28.0 | ---- | 10/15 | 30 | 2 |
| BRAGG | 27.9 | 24.0 | 10/12 | 35 | 3 |
| WILSTAR 790 | 25.4 | 28.5 | 10/11 | 32 | 2 |
| COKER 627 | 22.8 | ---- | 10/10 | 34 | 3 |
| Overall Mean | 28.7 | | | | |
| LSD @ .10 =..... | NS | | | | |
| Standard Error of Mean..... | 1.8 | | | | |
| Error Degrees of Freedom..... | 22 | | | | |
| CV =..... | 12.8 | | | | |

TABLE 10. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES BEAUMONT UNIT SOUTH MISSISSIPPI BRANCH (Location 10) on sandy loam soil. The maturity group is VIII.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| FOSTER | 25.6 | 29.2 | 10/16 | 37 | 3 |
| COKER 6738 | 35.7+ | ---- | 10/16 | 33 | 2 |
| HUTTON | 29.7 | 20.2 | 10/18 | 35 | 3 |
| COKER 368 | 29.0 | 32.3 | 10/17 | 36 | 3 |
| JOHNSTON | 28.7 | 27.0 | 10/17 | 32 | 3 |
| KIRBY | 25.4 | 27.8 | 10/22 | 36 | 3 |
| COBB | 24.9 | 18.6 | 10/22 | 38 | 3 |
| Overall Mean | 27.7 | | | | |
| LSD @ .10 =..... | 4.8 | | | | |
| Standard Error of Mean..... | 1.9 | | | | |
| Error Degrees of Freedom..... | 16 | | | | |
| CV =..... | 13.9 | | | | |

(+) and (=) are indicators of statistical differences as compared to the standard

Location 11...Mississippi State University

Soil type...Leeper silty clay
 Soil pH...8.0
 Soil fertility...P - medium, K - low
 Fertilizer added...100 lb 0-0-60
 Row width...38 inches
 Herbicide application...Lasso at 2.5 lb a.i./acre Pre
 Dinitro at 0.5 lb a.i./acre over the top
 Dinitro at 1.0 lb a.i./acre directed
 Classic at 0.5 oz a.i./acre over the top

Planting date...May 16

Harvest date...Group V October 7
 Group VI October 21
 Group VII October 30
 Group VIII October 31

Rainfall 1986

| <u>Month</u> | <u>Days</u> | <u>Inches</u> | <u>Month</u> | <u>Days</u> | <u>Inches</u> |
|--------------|-------------|---------------|--------------|-------------|---------------|
| May | 1 - 5 | 0.05 | August | 1 - 5 | 0.04 |
| | 6 - 10 | 0.03 | | 6 - 10 | 2.94 |
| | 11 - 15 | 1.75 | | 11 - 15 | 0.45 |
| | 16 - 20 | 0.73 | | 16 - 20 | 0.07 |
| | 21 - 25 | 1.14 | | 21 - 25 | 0.06 |
| | 26 - 31 | <u>2.67</u> | | 26 - 31 | <u>0.22</u> |
| | Total | 6.17 | | Total | 3.78 |
| June | 1 - 5 | 2.35 | September | 1 - 5 | 1.28 |
| | 6 - 10 | 0.82 | | 6 - 10 | 0.70 |
| | 11 - 15 | 0.00 | | 11 - 15 | 0.00 |
| | 16 - 20 | 0.00 | | 16 - 20 | 0.00 |
| | 21 - 25 | 0.00 | | 21 - 25 | 0.00 |
| | 26 - 30 | <u>-0.41</u> | | 26 - 30 | <u>0.00</u> |
| | Total | 3.58 | | Total | 1.98 |
| July | 1 - 5 | 0.51 | October | 1 - 5 | 0.09 |
| | 6 - 10 | 0.04 | | 6 - 10 | 1.82 |
| | 11 - 15 | 1.10 | | 11 - 15 | 1.70 |
| | 16 - 20 | 0.32 | | 16 - 20 | 0.00 |
| | 21 - 25 | 0.00 | | 21 - 25 | 2.16 |
| | 26 - 31 | <u>0.19</u> | | 26 - 31 | <u>0.00</u> |
| | Total | 2.16 | | Total | 5.77 |

TABLE 11. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES MISSISSIPPI STATE UNIVERSITY (Location 11) on silty clay soil. The maturity group is V.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| FORREST | 24.3 | 26.3 | 9/26 | 22 | 2 |
| COKER 485 | 44.4+ | 43.9 | 10/ 5 | 19 | 2 |
| TERRA-VIG 515 | 43.5+ | 42.7 | 10/ 5 | 21 | 2 |
| DELTAPINE 415 | 39.9+ | ----- | 9/26 | 21 | 2 |
| PIONEER VARIETY 9591 | 34.3+ | ----- | 9/30 | 18 | 2 |
| TERRA-VIG 505 | 32.6+ | 33.3 | 10/ 4 | 22 | 2 |
| NAROW | 32.4+ | 24.6 | 9/25 | 18 | 2 |
| DELTAPINE 345 | 32.2+ | 32.6 | 10/ 2 | 22 | 2 |
| A 5980 | 32.1+ | 29.3 | 10/ 2 | 24 | 2 |
| EX655 (EXP.) | 30.3 | ----- | 10/ 2 | 24 | 2 |
| HARTZ X5164 | 28.6 | ----- | 10/ 2 | 18 | 2 |
| WILSTAR 550 | 27.3 | 31.9 | 9/29 | 22 | 2 |
| BUCKSHOT 500 | 27.1 | ----- | 10/ 7 | 24 | 2 |
| DELTAPINE 105 | 26.4 | 30.8 | 9/29 | 24 | 2 |
| FFR 561 | 26.0 | 29.1 | 9/29 | 18 | 2 |
| YIELD KING 577 | 26.0 | ----- | 9/28 | 22 | 2 |
| A5474 | 26.0 | 26.4 | 9/24 | 23 | 2 |
| EPPS | 25.9 | 30.2 | 9/25 | 22 | 2 |
| RA 480 | 25.7 | ----- | 9/24 | 30 | 2 |
| HARTZ 5171 | 25.5 | 33.5 | 9/29 | 24 | 2 |
| BAY | 25.2 | 29.1 | 9/24 | 19 | 2 |
| TN5-85 | 24.9 | ----- | 9/26 | 22 | 2 |
| PIONEER VARIETY 9581 | 24.6 | ----- | 9/26 | 22 | 2 |
| SHENANDOAH | 24.3 | ----- | 10/ 2 | 17 | 2 |
| PIONEER VARIETY 5482 | 22.4 | 27.9 | 9/29 | 20 | 2 |
| HARTZ 5252 | 21.9 | 27.0 | 9/26 | 19 | 2 |
| YIELD KING 503 | 20.2 | 19.6 | 9/24 | 30 | 2 |
| PIONEER VARIETY 9571 | 19.4 | 24.4 | 9/26 | 20 | 2 |
| BEDFORD | 19.4 | 22.7 | 9/30 | 25 | 2 |
| TERRA-VIG 553 | 19.1 | 26.4 | 9/25 | 18 | 2 |
| HARTZ 5370 | 19.0 | 26.9 | 9/26 | 22 | 2 |
| DELTAPINE 675 | 18.7 | ----- | 10/ 2 | 20 | 2 |
| COKER 355 | 14.1- | 18.6 | 9/25 | 21 | 2 |
| CX415* | 11.7- | ----- | 9/10 | 21 | 2 |
| Overall Mean | 26.2 | | | | |
| LSD @ .10 =..... | 7.0 | | | | |
| Standard Error of Mean..... | 3.0 | | | | |
| Error Degrees of Freedom..... | 70 | | | | |
| CV =..... | 22.6 | | | | |

* Shattered Severely

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 11. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES MISSISSIPPI STATE UNIVERSITY (Location 11) on silty clay soil. The maturity group is VI.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| CENTENNIAL | 29.0 | 30.9 | 10/17 | 29 | 2 |
| SPARTAN | 34.2 | 33.9 | 10/20 | 42 | 3 |
| S69-54 | 33.6 | ---- | 10/18 | 28 | 2 |
| COKER 686 | 33.1 | ---- | 10/14 | 28 | 2 |
| TERRA-VIG 606 | 31.9 | 29.8 | 10/12 | 28 | 2 |
| DAVIS | 31.8 | 33.1 | 10/ 8 | 30 | 2 |
| FFR 668 | 30.5 | 29.4 | 10/21 | 29 | 3 |
| EXP. 3305 (EXP.) | 30.1 | ---- | 10/ 5 | 28 | 2 |
| YOUNG | 29.4 | ---- | 10/ 4 | 28 | 2 |
| HARTZ X6385 | 29.3 | ---- | 10/15 | 26 | 2 |
| TRACY-M | 28.7 | 31.4 | 10/10 | 27 | 3 |
| COKER 156 | 28.6 | 31.8 | 10/14 | 30 | 2 |
| RA 680 | 28.5 | 31.0 | 10/14 | 34 | 3 |
| TERRA-VIG 616 | 28.3 | 27.9 | 10/18 | 34 | 3 |
| PIONEER VARIETY 9691 | 27.9 | ---- | 10/17 | 24 | 3 |
| DELTAPINE 726 | 27.7 | ---- | 10/19 | 29 | 3 |
| DELTAPINE 566 | 27.6 | 30.0 | 10/17 | 28 | 2 |
| A 6785 | 27.3 | ---- | 10/ 6 | 28 | 3 |
| SANALONA | 26.4 | ---- | 10/ 6 | 27 | 2 |
| DELTAPINE 506 | 26.3 | 31.5 | 10/18 | 25 | 3 |
| SAMPSON | 26.2 | 31.5 | 10/18 | 28 | 3 |
| HARTZ 6383R | 25.3 | 28.5 | 10/20 | 29 | 3 |
| YIELD KING 696 | 23.6- | ---- | 10/14 | 30 | 3 |
| RA 606 | 23.5- | ---- | 10/ 1 | 30 | 2 |
| YIELD KING 613 | 23.3- | 26.1 | 10/ 3 | 30 | 2 |
| A 6242 | 22.4- | 23.5 | 10/ 8 | 24 | 2 |
| SHILOH | 20.7- | 24.5 | 10/ 2 | 24 | 2 |
| LEFLORE | 20.6- | 24.7 | 10/18 | 27 | 2 |
| YIELD KING 593 | 20.2- | 28.1 | 10/ 1 | 27 | 2 |
| HARTZ 6130 | 18.5- | 23.5 | 10/ 6 | 24 | 2 |
| A 6520 | 18.2- | 26.9 | 10/12 | 25 | 2 |
| COKER 6716 | 16.7- | ---- | 9/29 | 24 | 2 |
| J77-339 (EXP.) | 14.3- | 18.1 | 10/12 | 32 | 3 |
| Overall Mean | 26.8 | | | | |
| LSD @ .10 =..... | 5.3 | | | | |
| Standard Error of Mean..... | 2.2 | | | | |
| Error Degrees of Freedom..... | 70 | | | | |
| CV =..... | 16.8 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

TABLE 11. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES MISSISSIPPI STATE UNIVERSITY (Location 11) on silty clay soil. The maturity group is VII.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| BRAXTON | 39.8 | 41.8 | 10/22 | 38 | 3 |
| COKER 82-606 (EXP.) | 47.0+ | ---- | 10/20 | 39 | 3 |
| A 7986 | 40.6 | ---- | 10/27 | 37 | 3 |
| COKER 6727 | 40.4 | ---- | 10/18 | 34 | 3 |
| DELTAPINE 497 | 40.0 | 40.2 | 10/23 | 45 | 3 |
| EXP 1409 (EXP.) | 38.4 | ---- | 10/15 | 35 | 2 |
| STARR | 37.3 | ---- | 10/22 | 41 | 3 |
| COKER 627 | 36.7 | ---- | 10/18 | 36 | 3 |
| HARTZ 7110 | 36.7 | ---- | 10/20 | 36 | 3 |
| HARTZ 7126 | 36.4 | 37.4 | 10/21 | 34 | 3 |
| TERRA-VIG 717 | 36.2 | 36.1 | 10/22 | 33 | 3 |
| TERRA-VIG 708 | 36.0 | 35.6 | 10/18 | 32 | 3 |
| DELTAPINE 417 | 33.5- | 37.5 | 10/23 | 44 | 3 |
| WILSTAR 790 | 33.5- | 37.8 | 10/26 | 36 | 3 |
| WRIGHT | 33.4- | 38.1 | 10/19 | 33 | 3 |
| GORDON | 33.3- | 35.6 | 10/18 | 36 | 3 |
| BRAGG | 32.5- | 34.2 | 10/19 | 38 | 3 |
| PIONEER VARIETY 9791 | 32.5- | ---- | 10/22 | 35 | 2 |
| FFR 771 | 29.7- | ---- | 10/21 | 38 | 3 |
| RA 702 | 29.6- | ---- | 10/20 | 32 | 2 |
| YIELD KING 757 | 28.1- | ---- | 10/22 | 39 | 3 |
| YIELD KING 707 | 26.5- | ---- | 10/19 | 48 | 3 |
| Overall Mean | 35.1 | | | | |
| LSD @ .10 =..... | 4.9 | | | | |
| Standard Error of Mean..... | 2.1 | | | | |
| Error Degrees of Freedom..... | 46 | | | | |
| CV =..... | 11.8 | | | | |

(+) and (=) are indicators of statistical differences as compared to the standard

TABLE 11. Results of the 1986 Mississippi Soybean Variety Trials at the MAFES MISSISSIPPI STATE UNIVERSITY (Location 11) on silty clay soil. The maturity group is VIII.

| Entry | Yield Bushels/ Acre | Three Year Average | Maturity Date | Plant Height Inches | Lodg- ing Score |
|-------------------------------|---------------------------|--------------------------|------------------|---------------------------|-----------------------|
| FOSTER | 30.1 | 35.0 | 10/22 | 38 | 3 |
| COKER 368 | 37.8+ | 38.7 | 10/22 | 42 | 3 |
| JOHNSTON | 37.6+ | 37.5 | 10/22 | 34 | 3 |
| HUTTON | 36.3+ | 33.9 | 10/22 | 36 | 3 |
| COKER 6738 | 34.2+ | ---- | 10/22 | 42 | 3 |
| KIRBY | 31.8 | 31.1 | 10/23 | 41 | 3 |
| COBB | 31.1 | 36.5 | 10/30 | 42 | 3 |
| TERRA-VIG 808 | 29.4 | 30.5 | 10/22 | 38 | 3 |
| HARTZ 8112 | 27.4 | 30.0 | 10/23 | 44 | 2 |
| Overall Mean | 30.9 | | | | |
| LSD @ .10 =..... | 3.7 | | | | |
| Standard Error of Mean..... | 1.5 | | | | |
| Error Degrees of Freedom..... | 22 | | | | |
| CV =..... | 9.7 | | | | |

(+) and (-) are indicators of statistical differences as compared to the standard

Color of bloom, pubescence, pod wall and hilum of entries in the 1986 Mississippi Soybean Variety Trials, by maturity groups.

| Entry | Bloom Color | Pubescence Color | Pod Wall Color | Hilum Color |
|----------------------|-------------|------------------|----------------|-------------|
| Maturity Group V | | | | |
| A 5474 | white | tawny | brown | black |
| A 5980 | purple | tawny | tan | black |
| Bay | purple | gray | tan | buff |
| Bedford | white | tawny | tan | black |
| Buckshot 500 | white | tawny | brown | black |
| CX 415 | white | gray | tan | imp black |
| Coker 355 | purple | tawny | brown | black |
| Coker 485 | purple | tawny | tan | black |
| Deltapine 105 | purple | gray | tan | imp black |
| Deltapine 345 | purple | tawny | tan | black |
| Deltapine 415 | purple | gray | tan | buff |
| Deltapine 675 | white | tawny | tan | brown |
| EX 655 (Exp.) | white | tawny | tan | black |
| Epps | purple | gray | tan | imp black |
| FFR 561 | white | gray | tan | buff |
| Forrest | white | tawny | tan | black |
| Hartz 5171 | white | gray | tan | buff |
| Hartz 5252 | purple | tawny | tan | black |
| Hartz 5370 | white | tawny | tan | black |
| Hartz X5164 | white | tawny | tan | black |
| Narow | purple | gray | tan | imp black |
| Pioneer Variety 5482 | white | tawny | brown | black |
| Pioneer Variety 9571 | white | tawny | brown | black |
| Pioneer Variety 9581 | white | tawny | tan | black |
| Pioneer Variety 9591 | purple | gray | tan | buff |
| RA 480 | purple | tawny | tan | black |
| Shenandoah | white | gray | tan | imp black |
| TN5-85 | white | gray | tan | brown |
| Terra-Vig 505 | purple | tawny | tan | black |
| Terra-Vig 515 | purple | tawny | tan | black |
| Terra-Vig 553 | white | tawny | tan | black |
| Wilstar 550 | purple | tawny | tan | buff |
| Yield King 503 | purple | tawny | tan | black |
| Yield King 577 | white | gray | tan | buff |

(continued)

(Continued)

Color of bloom, pubescence, pod wall and hilum of entries in the 1986 Mississippi Soybean Variety Trials, by maturity groups.

| Entry | Bloom Color | Pubescence Color | Pod Wall Color | Hilum Color |
|----------------------|-------------|------------------|----------------|-------------|
| ----- | | | | |
| Maturity Group VI | | | | |
| ----- | | | | |
| A 6242 | purple | tawny | brown | black |
| A 6520 | purple | tawny | tan | black |
| A 6785 | white | gray | tan | imp black |
| Centennial | purple | tawny | tan | black |
| Coker 156 | white | gray | tan | buff |
| Coker 686 | purple | tawny | tan | black |
| Coker 6716 | white | tawny | tan | black |
| Davis | white | gray | tan | buff |
| Deltapine 506 | white | tawny | tan | black |
| Deltapine 566 | white | tawny | tan | black |
| Deltapine 726 | purple | tawny | tan | black |
| Exp. 3305 (Exp.) | white | tawny | tan | black |
| FFR 668 | purple | gray | tan | imp black |
| Hartz 6130 | purple | tawny | tan | black |
| Hartz 6383R | purple | gray | tan | imp black |
| Hartz X6385 | purple | gray | tan | imp black |
| J77-339 (Exp.) | white | tawny | tan | black |
| Leflore | purple | tawny | tan | black |
| Pioneer Variety 9691 | white | tawny | tan | black |
| RA 606 | white | gray | tan | buff |
| RA 680 | purple | tawny | tan | black |
| S69-54 | purple | gray | tan | imp black |
| Sampson | purple | tawny | tan | black |
| Sanalona | purple | tawny | tan | black |
| Shiloh | white | tawny | tan | black |
| Spartan | purple | tawny | tan | black |
| Terra-Vig 606 | white | gray | tan | buff |
| Terra-Vig 616 | purple | gray | tan | imp black |
| Tracy-M | white | tawny | tan | black |
| Yield King 593 | purple | tawny | tan | black |
| Yield King 613 | purple | tawny | tan | brown |
| Yield King 696 | purple | tawny | tan | black |
| Young | white | gray | tan | buff |

(continued)

(Continued)

Color of bloom, pubescence, pod wall and hilum of entries in the 1986 Mississippi Soybean Variety Trials, by maturity groups.

| Entry | Bloom Color | Pubescence Color | Pod Wall Color | Hilum Color |
|----------------------|----------------|---------------------|-------------------|----------------|
| ----- | | | | |
| Maturity Group VII | | | | |
| ----- | | | | |
| A7986 | purple | gray | tan | imp black |
| Bragg | white | tawny | tan | black |
| Braxton | purple | tawny | tan | black |
| Coker 627 | purple | tawny | tan | black |
| Coker 6727 | purple | tawny | tan | black |
| Coker 82-606 (Exp.) | white | gray | tan | buff |
| Deltapine 417 | white | gray | tan | buff |
| Deltapine 497 | white | tawny | tan | black |
| Exp. 1409 (Exp.) | purple | tawny | tan | black |
| FFR 771 (Exp.) | white | tawny | tan | imp black |
| Gordon | white | gray | tan | imp black |
| Hartz 7110 | white | tawny | tan | black |
| Hartz 7126 | purple | tawny | tan | black |
| Pioneer Variety 9791 | white | gray | tan | buff |
| RA 702 | white | tawny | tan | black |
| Starr | white | tawny | tan | black |
| Terra-Vig 708 | white | tawny | brown | brown |
| Terra-Vig 717 | purple | gray | tan | buff |
| Wilstar 790 | white | tawny | tan | black |
| Wright | purple | tawny | tan | black |
| Yield King 707 | white | tawny | tan | black |
| Yield King 757 | white | tawny | tan | black |
| ----- | | | | |
| Maturity Group VIII | | | | |
| ----- | | | | |
| Cobb | white | gray | tan | buff |
| Coker 368 | white | gray | tan | buff |
| Coker 6738 | purple | tawny | tan | black |
| Foster | purple | gray | tan | buff |
| Hartz 8112 | white | tawny | tan | black |
| Hutton | purple | tawny | tan | black |
| Johnston | purple | tawny | tan | black |
| Kirby | purple | tawny | tan | black |
| Terra-Vig 808 | purple | tawny | tan | black |
| ----- | | | | |

Reaction to Pest and Herbicide

| | Disease Reaction | | Cyst Nematode* | | Herbicide** |
|----------------------|----------------------|-----------------------|----------------|-----------|------------------------|
| | Phytophthora* Rot | Rootknot* Nematode | Race 3 | Race 4 | Metribuzin Reaction |
| Maturity Group V | | | | | |
| A 5474 | R | MR | MR | MR | T |
| A 5980 | MR | S | R | R | T |
| Bay | MR | S | S | S | T |
| Bedford | MR | R | R | R | T |
| Buckshot 500 | -- | - | - | - | - |
| CX 415 | R | - | S | S | T |
| Coker 355 | S | S | R | R | T |
| Coker 485 | S | R | R | S | T |
| Deltapine 105 | MR | S | S | S | T |
| Deltapine 345 | R | S | S | S | T |
| Deltapine 415 | MR | R | R | S | T |
| Deltapine 675 | R | R | R | R | T |
| EX 655 (Exp.) | S | - | MR | MR | T |
| Epps | R | R | R | R | T |
| FFR 561 | S | S | S | S | T |
| Forrest | MR | R | R | S | T |
| Hartz 5171 | MR | S | R | S | T |
| Hartz 5252 | MR | S | R | S | T |
| Hartz 5370 | MR | MR | R | S | T |
| Hartz X5164 | MR | MR | R | R | T |
| Narow | MR | MS | S | S | S |
| Pioneer Variety 5482 | MR | S | S | S | T |
| Pioneer Variety 9571 | MR | S | R | R | T |
| Pioneer Variety 9581 | MR | MR | R | R | T |
| Pioneer Variety 9591 | S | MR | S | S | T |
| RA 480 | MS | S | MR | S | T |
| Shenandoah | MR | -- | S | S | T |
| TN5-85 | MR | -- | R | S | T |
| Terra-Vig 505 | R | R | S | S | S |
| Terra-Vig 515 | R | R | R | -- | T |
| Terra-Vig 553 | R | R | R | -- | T |
| Wilstar 550 | MR | MR | S | S | T |
| Yield King 503 | MR | -- | S | S | T |
| Yield King 577 | -- | R | R | S | T |

(continued)

Reaction to Pest and Herbicide

| | Disease Reaction | | Cyst Nematode* | | Herbicide** |
|----------------------|----------------------|-----------------------|----------------|-----------|------------------------|
| | Phytophthora* Rot | Rootknot* Nematode | Race 3 | Race 4 | Metribuzin Reaction |
| Maturity Group VI | | | | | |
| A 6242 | MR | S | R | R | T |
| A 6520 | R | R | R | S | S |
| A 6785 | R | MR | S | S | T |
| Centennial | R | S | R | S | T |
| Coker 156 | R | S | S | S | S |
| Coker 686 | -- | MR | R | S | T |
| Coker 6716 | -- | -- | R | S | T |
| Davis | R | S | S | S | T |
| Deltapine 506 | R | S | S | S | T |
| Deltapine 566 | R | S | S | S | T |
| Deltapine 726 | R | R | R | S | T |
| Exp. 3305 (Exp.) | -- | -- | -- | -- | T |
| FFR 668 | S | S | S | S | T |
| Hartz 6130 | S | R | R | R | T |
| Hartz 6383R | R | S | R | S | T |
| Hartz X 6385 | R | MR | R | S | T |
| J77-339 (Exp.) | R | R | R | R | T |
| Leflore | R | R | R | R | T |
| Pioneer Variety 9691 | MR | -- | R | S | T |
| RA 606 | -- | -- | -- | -- | T |
| RA 680 | R | R | R | S | T |
| S 69-54 | R | -- | R | S | T |
| Sampson | MR | S | S | S | T |
| Sanalona | MR | S | S | S | T |
| Shiloh | R | MR | R | R | T |
| Spartan | MR | S | S | S | T |
| Terra-Vig 606 | R | -- | S | S | S |
| Terra-Vig 616 | R | R | R | -- | T |
| Tracy-M | R | S | S | S | T |
| Yield King 593 | -- | -- | R | S | T |
| Yield King 613 | MR | -- | R | S | T |
| Yield King 696 | MR | -- | -- | -- | T |
| Young | MR | MS | S | S | T |

(continued)

Reaction to Pest and Herbicide

| | Disease Reaction | | Cyst Nematode* | | Herbicide** |
|----------------------|----------------------|-----------------------|----------------|-----------|------------------------|
| | Phytophthora* Rot | Rootknot* Nematode | Race 3 | Race 4 | Metribuzin Reaction |
| Maturity Group VII | | | | | |
| A 7986 | R | MR | S | S | T |
| Bragg | MR | MR | S | S | T |
| Braxton | MR | R | S | S | T |
| Coker 627 | -- | -- | R | S | T |
| Coker 6727 | -- | R | R | S | T |
| Coker 82-606 (Exp.) | -- | -- | -- | -- | T |
| Deltapine 417 | MR | S | S | S | T |
| Deltapine 497 | MR | S | S | S | T |
| Exp. 1409 (Exp.) | -- | -- | -- | -- | T |
| FFR 771 (Exp.) | S | S | S | S | T |
| Gordon | MR | R | R | S | T |
| Hartz 7110 | MR | MR | R | S | T |
| Hartz 7126 | S | S | R | S | T |
| Pioneer Variety 9791 | MR | MR | S | S | T |
| RA 702 | MR | R | R | S | T |
| Starr | R | -- | S | S | T |
| Terra-Vig 708 | MR | MR | S | S | T |
| Terra-Vig 717 | R | R | R | S | T |
| Wilstar 790 | S | S | S | S | T |
| Wright | MR | R | S | S | T |
| Yield King 707 | MR | MS | R | S | T |
| Yield King 757 | R | R | R | S | T |

Maturity Group VIII

| | | | | | |
|---------------|----|----|---|---|---|
| Cobb | MR | R | S | S | T |
| Coker 368 | S | R | R | S | T |
| Coker 6738 | -- | R | R | S | T |
| Foster | MR | R | R | S | T |
| Hartz 8112 | S | S | S | S | T |
| Hutton | MR | R | S | S | T |
| Johnston | MS | MS | S | S | T |
| Kirby | R | R | R | S | T |
| Terra-Vig 808 | R | S | R | S | T |

R= Resistant

MR= Moderately Resistant

MS= Moderately Susceptible

S= Susceptible

T= Tolerant

* Test reactions as reported by breeder

** Based upon reaction to 0.125 hydroponic screening



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