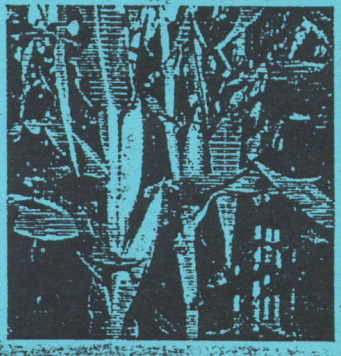
Performance of Corn Hybrids in Alabama 1989

# CORN

CORN

CORN



Department of Agronomy and Soils Series No. 140
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Auburn University Auburn University, Alabama
Lowell T. Frobish, Director December 1989

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# PERFORMANCE OF CORN HYBRIDS IN ALABAMA, 1989

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## INTRODUCTION

Corn hybrids are evaluated annually by the Alabama Agricultural Experiment Station in the Regular Corn Hybrid Test and the Preliminary Corn Hybrid Test on a northern, central, and southern regional basis. The Marion Junction, or Black Belt Substation, corn test is used as the prairie soil regional comparison. Entries in the preliminary tests are both experimental and newly released hybrids. If a hybrid is outstanding in the preliminary test, it is entered in the regular corn test the following year. White and early corn hybrids are tested at one location in each region. One regular and one white corn hybrid test are irrigated at Headland in southern Alabama.

The locations and cultural practices for the tests are shown in table 1. The tests were designed as a randomized complete block with four replications. Row width was 30 to 36 inches depending on location. Two-row plots were used, with row length ranging from 20 to 30 feet depending, again, on location. The target plant population for the tests was 20,000 plants per acre with a seeding rate of 23,000 seeds per acre. The irrigated tests at Headland were seeded at a rate of 30,000 plants per acre and thinned to 25,000.

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[1]Respectively, Associate Professor and Professor of Agronomy and Soils.

Grain yields were adjusted to 15.5 percent moisture and converted to bushels (56 pounds) per acre. Stalks broken or leaning more than 45 degrees were considered lodged. The mid-silk data measured the number of days from planting until one-half of the plants in the plots were showing silks. Bushel test weights are reported as regional averages from this year's data.

To aid in determining real yield differences, a statistical analysis of variance is performed on the data from each location. The L.S.D. (least significant difference) and C.V. (coefficient of variation) are given for each location's test. The difference in yield of two hybrids must exceed the L.S.D. value for one hybrid to be considered superior to the others in yield in that particular test. The C.V. is a measure of the variability in an experiment. An increase in its value indicates an increase in the unaccounted variability.

The corn hybrid tests are examined for disease incidence each year by R.T. Gudauskas, Professor of Plant Pathology. When virus or other disease symptoms indicate crop damage, disease ratings are compiled and published in this report (page 20 ). Virus infection data from the tests at Marion Junction, Prattville, Belle Mina, and Winfield are reported this year, tables 9 and 10.

Since the performance of hybrids varies with location and year, long-term averages from several locations are more reliable than 1-year performance. Three-year regional averages are considered a reliable evaluation of the relative performance of hybrids.

The irrigation test at Headland had 8.8 inches of water applied in 7 applications during May, June, and July to supplement the rainfall. All test locations had good rainfall during June and July, table 21, which resulted in excellent corn grain yields.

A committee comprised of Department of Agronomy and Soils and Alabama Cooperative Extension Service personnel involved in corn research reviewed the past 3 years of corn hybrid test data to assemble the list of acceptable hybrids on pages 40-43. The recommended hybrids are not all equal in performance. Some are outstanding in one or more characteristics; while others may not be obviously outstanding, they might possess a satisfactory combination of all characteristics.

ACKNOWLEDGMENTS

Appreciation is expressed to the following supervisory personnel of the outlying units whose quality work makes this a reliable source of information for farmers in their areas.

NORTHERN ALABAMA

Tennessee Valley Substation, Belle Mina - W.B. Webster, H.E. Burgess

Sand Mountain Substation, Crossville - J.T. Eason, M.E. Ruf

Upper Coastal Plain Substation, Winfield - W.A. Griffey

CENTRAL ALABAMA

Black Belt Substation, Marion Junction - J.L. Holliman, M.D. Pegues

Prattville Experiment Field - D.P. Moore

E.V. Smith Research Center, Shorter - R.R. Duffield

Plant Breeding Unit, Tallassee - S.P. Nightengale

SOUTHERN ALABAMA

Lower Coastal Plain Substation - J. Little, P. Rose

Brewton Experiment Field - J.R. Akridge

Monroeville Experiment Field - J.R. Akridge

Gulf Coast Substation, Fairhope - E.L. Carden, N.R. McDaniel,

Wiregrass Substation, Headland - H.W. Ivey, L. Wells, B. Gamble

Appreciation is also expressed to Mien-Huei Tzeng and Mrs. Sally Bagwell, Research Data Analysis, for the computation, summarization, and analysis of the data in this report.

TABLE 1. LOCATIONS AND CULTURAL PRACTICES FOR THE 1989 CORN HYBRID TESTS

| Location | Planting date | Nitrogen rate* | Plant population | Date harvested | Herbicides used |
|---|---|---|---|---|---|
| Northern Alabama | | | | | |
| Tennessee Valley Substation (Belle Mina) | April 14 | 136 | 20,000 | September 27 | Atrazine + Dual |
| Sand Mountain Substation (Crossville) | | | | | |
| Regular test | April 18 | 160 | 20,000 | September 22 | Atrazine + Dual |
| Preliminary test | April 19 | 160 | 20,000 | September 13 | Atrazine + Dual |
| White corn test | April 18 | 160 | 20,000 | September 19 | Atrazine + Dual |
| Early corn test | March 29 | 158 | 20,000 | September 7 | Atrazine + Dual |
| Upper Coastal Plain Substation (Winfield) | April 13 | 150 | 20,000 | September 7-12 | Atrazine |
| Central Alabama | | | | | |
| E.V. Smith Research Center (Shorter) | | | | | |
| Early corn test | April 18 | 175 | 20,000 | August 23 | Atrazine + Lasso |
| White corn test | April 19 | 175 | 20,000 | August 18 | Atrazine + Lasso |
| Plant Breeding Unit (Tallassee) | April 19 | 240 | 20,000 | September 11 | Atrazine + Dual |
| Prattville Experiment Field (Prattville) | March 28 | 120 | 20,000 | August 25 | Atrazine |
| Black Belt Substation (Marion Junction) | April 24 | 150 | 20,000 | September 15 | Atrazine |
| Southern Alabama | | | | | |
| Brewton Experiment Field (Brewton) | March 29 | 120 | 20,000 | September 11 | Atrazine + Dual |
| Monroeville Experiment Field (Monroeville) | March 29 | 120 | 20,000 | September 30 | Atrazine + Dual |
| Lower Coastal Plain Substation (Camden) | April 21 | 100 | 20,000 | August 25 | Dual + Vernam |
| Wiregrass Substation (Headland) | | | | | |
| Regular test (unirrigated) | April 4 | 118 | 20,000 | August 21 | Atrazine + Lasso |
| Regular test (irrigated) | April 4 | 198 | 25,000 | August 31 | Atrazine + Lasso |
| White corn test (irrigated) | April 4 | 198 | 25,000 | September 1 | Atrazine + Lasso |
| Gulf Coast Substation (Fairhope) | | | | | |
| Regular test | March 27 | 152 | 20,000 | August 29 | Atrazine + Dual |
| Preliminary test | March 27 | 152 | 20,000 | August 29 | Atrazine + Dual |
| Early corn test | March 1 | 152 | 20,000 | August 28 | Atrazine + Dual |

*Pounds per acre N. Lime, phosphorus, potassium, zinc, and sulfur were applied according to recommendation based on soil test.

TABLE 2. TWO- AND THREE-YEAR YIELD AND LODGING AVERAGES FOR NORTHERN ALABAMA*, 1987-89

| BRAND NAME-HYBRID | YIELD PER ACRE, AV. | | LODGED STALKS, AV. | |
|---|---|---|---|---|
| | 3-YR. 1987-89 | 2-YR. 1988-89 | 3-YR. 1987-89 | 2-YR. 1988-89 |
| | BU. | BU. | PCT. | PCT. |
| PIONEER 3165 | 108 | 103 | 1.7 | 1.7 |
| DEKALB DK 689 | 107 | 102 | 1.2 | 1.3 |
| DEKALB DK 711 | 106 | 98 | 1.6 | 1.6 |
| AGRATECH GK 900 | 104 | 100 | 2.0 | 1.7 |
| PIONEER 3320 | 102 | 98 | 1.9 | 1.7 |
| NEW NK PX 95 | 102 | 97 | 2.8 | 1.3 |
| ZIMMERMAN Z 27 | 101 | 96 | 1.4 | 1.5 |
| DEKALB DK 789 | 101 | 92 | 1.2 | 1.4 |
| FUNK'S G-4666 | 100 | 93 | 1.3 | 1.3 |
| JACQUES 8400 | 100 | 93 | 3.4 | 3.3 |
| ASGROW/O'S GOLD 2570 | 99 | 89 | 2.7 | 2.6 |
| SEEDTEC ST-7750 | 99 | 92 | 1.5 | 0.9 |
| SUNBELT 1827 | 98 | 90 | 2.1 | 1.3 |
| FUNK'S G-4868 | 97 | 93 | 1.7 | 1.8 |
| NEW NK PX 9581 | 97 | 90 | 2.4 | 2.3 |
| AGRATECH GK 850 | 97 | 88 | 2.1 | 2.0 |
| DELTAPINE 5750 | 97 | 92 | 1.0 | 1.0 |
| SUNBELT 1802 | 97 | 89 | 1.6 | 1.4 |
| PIONEER 3147 | 96 | 91 | 2.7 | 3.1 |
| CARGILL 9427 | 96 | 90 | 1.9 | 1.8 |
| MCCURDY 7777 | - | 100 | - | 1.3 |
| SUNBELT 1876 | - | 98 | - | 2.3 |
| SUNBELT 1860 | - | 95 | - | 1.6 |
| FUNK'S G-4743 | - | 95 | - | 1.1 |
| GARST 8180 | - | 94 | - | 2.4 |
| GARST 8116 | - | 91 | - | 0.8 |
| JACQUES 8250 | - | 89 | - | 3.2 |
| SUNBELT 1882 | - | 89 | - | 1.5 |
| COKER 8696 | - | 89 | - | 1.7 |
| AGRATECH GK 750 | - | 86 | - | 1.3 |
| FUNK'S G-4543 | - | 86 | - | 1.3 |

* BELLE MINA AND CROSSVILLE.

TABLE 3. 1989 YIELD OF CORN HYBRIDS BY LOCATION AND REGIONAL AVERAGES OF HYBRID CHARACTERISTICS IN NORTHERN ALABAMA

| BRAND NAME-HYBRID | BELLE MINA | CROSSVILLE | WINFIELD | 1989 REGIONAL AVERAGES. | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | YIELD PER ACRE | LODGED STALKS | TEST WEIGHT | MID-** SILK | HUSK* COVER | HARVEST MOISTURE |
| | BU. | BU. | BU. | BU. | PCT. | LB./BU. | MO.-DA. | RATING | PCT. |
| PIONEER 3165 | 158 | 193 | 155 | 169 | 2.3 | 56.6 | 7-2 | 3 | 19.5 |
| NEW NK PX 95 | 164 | 194 | 138 | 165 | 2.7 | 57.2 | 6-29 | 3 | 19.2 |
| NEW NK MCNAIR 508 | 163 | 191 | 142 | 165 | 3.0 | 56.8 | 7-8 | 2 | 21.4 |
| MCCURDY 8181 | 161 | 178 | 146 | 162 | 1.0 | 58.8 | 6-30 | 2 | 20.2 |
| AGRATECH GK 900 | 152 | 175 | 153 | 160 | 1.3 | 59.8 | 6-29 | 2 | 19.2 |
| DEKALB DK 689 | 158 | 187 | 135 | 160 | 2.0 | 56.9 | 6-30 | 3 | 17.6 |
| FUNK'S G-4743 | 161 | 174 | 144 | 159 | 1.7 | 59.6 | 6-30 | 2 | 18.5 |
| PIONEER 3320 | 160 | 167 | 151 | 159 | 2.3 | 58.0 | 6-29 | 3 | 17.4 |
| SUNBELT 1876 | 167 | 180 | 131 | 159 | 4.0 | 56.4 | 7-7 | 2 | 21.7 |
| SUNBELT 1860 | 136 | 170 | 170 | 159 | 2.7 | 57.7 | 6-13 | 2 | 19.7 |
| DEKALB DK 711 | 151 | 180 | 140 | 157 | 1.7 | 59.4 | 6-28 | 2 | 18.9 |
| MCCURDY 7777 | 160 | 164 | 145 | 157 | 2.0 | 56.5 | 6-29 | 3 | 19.3 |
| FUNK'S G-4868 | 164 | 166 | 139 | 156 | 2.7 | 55.0 | 7-7 | 3 | 20.5 |
| SUNBELT 1827 | 166 | 180 | 123 | 156 | 1.7 | 58.6 | 7-1 | 2 | 17.9 |
| NC+ 7507 | 151 | 161 | 154 | 155 | 1.0 | 58.3 | 7-1 | 2 | 16.8 |
| DEKALB DK 789 | 156 | 169 | 138 | 154 | 2.3 | 55.9 | 7-2 | 3 | 19.3 |
| ZIMMERMAN Z 27 | 149 | 166 | 148 | 154 | 2.0 | 58.5 | 6-29 | 2 | 17.4 |
| PIONEER 3140 | 146 | 174 | 142 | 154 | 1.3 | 56.0 | 7-1 | 2 | 18.1 |
| FFR 955 | 141 | 177 | 137 | 152 | 3.0 | 57.7 | 7-5 | 3 | 19.4 |
| ZIMMERMAN Z 38 | 162 | 161 | 132 | 152 | 1.3 | 58.4 | 6-27 | 3 | 18.2 |
| GARST 8116 | 142 | 169 | 144 | 151 | 1.0 | 59.0 | 6-29 | 2 | 17.9 |
| FUNK'S G-4666 | 149 | 162 | 144 | 151 | 1.7 | 59.5 | 6-5 | 2 | 18.0 |
| PIONEER 3187 | 147 | 166 | 136 | 150 | 1.3 | 57.0 | 6-28 | 2 | 18.2 |
| NEW NK S 8645 | 149 | 155 | 146 | 150 | 1.7 | 58.9 | 6-30 | 1 | 18.0 |
| JACQUES 8210 | 148 | 173 | 129 | 150 | 1.3 | 58.8 | 6-28 | 2 | 17.9 |
| CARGILL 9427 | 161 | 159 | 129 | 150 | 2.7 | 56.6 | 6-29 | 2 | 18.4 |
| SUNBELT 1882 | 150 | 172 | 128 | 150 | 2.0 | 56.5 | 7-7 | 2 | 21.3 |
| JACQUES 8400 | 151 | 172 | 124 | 149 | 4.0 | 59.4 | 6-28 | 3 | 18.9 |
| TRIUMPH 2020 | 149 | 164 | 134 | 149 | 2.3 | 58.9 | 6-29 | 2 | 17.9 |
| TRIUMPH 1650FG | 146 | 168 | 132 | 149 | 3.7 | 59.4 | 6-29 | 2 | 18.9 |
| DELTAPINE 5750 | 144 | 160 | 142 | 148 | 2.0 | 59.2 | 6-28 | 2 | 17.3 |
| SEEDTEC ST-7750 | 150 | 161 | 133 | 148 | 1.3 | 58.7 | 6-30 | 2 | 17.9 |
| GARST 8180 | 153 | 157 | 133 | 148 | 2.3 | 57.6 | 6-30 | 2 | 18.0 |
| FUNK'S RA 1502 | 154 | 151 | 134 | 146 | 1.7 | 56.9 | 6-28 | 2 | 17.5 |

CONTINUED

TABLE 3. 1989 YIELD OF CORN HYBRIDS BY LOCATION AND REGIONAL AVERAGES OF HYBRID CHARACTERISTICS IN NORTHERN ALABAMA

CONTINUED

| BRAND NAME-HYBRID | BELLE MINA | CROSSVILLE | WINFIELD | 1989 REGIONAL AVERAGES. YIELD PER ACRE | LODGED STALKS | TEST WEIGHT | MID-** SILK | HUSK* COVER | HARVEST MOISTURE |
|---|---|---|---|---|---|---|---|---|---|
| | BU. | BU. | BU. | BU. | PCT. | LB./BU. | MO.-DA. | RATING | PCT. |
| ZIMMERMAN Z 35 | 139 | 152 | 146 | 146 | 1.7 | 59.0 | 6-29 | 2 | 17.6 |
| TERRA TR 363E | 140 | 168 | 130 | 146 | 1.7 | 58.6 | 6-30 | 2 | 18.2 |
| SEEDTEC 7625 | 148 | 152 | 136 | 145 | 1.3 | 59.6 | 6-29 | 2 | 17.5 |
| SUNBELT 1802 | 149 | 159 | 126 | 145 | 1.3 | 58.6 | 6-29 | 2 | 17.5 |
| ASGROW/O'S GOLD 2570 | 140 | 149 | 141 | 143 | 2.7 | 57.3 | 6-29 | 2 | 16.9 |
| TERRA TR 366E | 142 | 160 | 127 | 143 | 1.3 | 59.2 | 6-28 | 3 | 18.0 |
| NEW NK PX 9581 | 139 | 153 | 136 | 143 | 2.7 | 57.4 | 6-27 | 3 | 17.5 |
| AGRATECH GK 850 | 144 | 152 | 132 | 143 | 2.0 | 57.6 | 6-27 | 2 | 18.0 |
| TERRA TR 364E | 150 | 157 | 121 | 142 | 1.7 | 58.7 | 6-28 | 2 | 17.6 |
| COKER 8696 | 130 | 163 | 133 | 142 | 1.3 | 58.1 | 6-29 | 3 | 18.5 |
| CARGILL 8027 | 132 | 158 | 134 | 142 | 1.0 | 59.9 | 6-28 | 2 | 17.1 |
| FUNK'S G-4543 | 140 | 154 | 130 | 141 | 2.0 | 59.8 | 6-28 | 2 | 16.9 |
| HYPERFORMER HS 97 | 143 | 155 | 126 | 141 | 2.3 | 58.3 | 7-2 | 2 | 17.8 |
| JACQUES 7900 | 142 | 152 | 130 | 141 | 2.7 | 57.7 | 6-28 | 3 | 16.3 |
| PIONEER 3147 | 144 | 158 | 121 | 141 | 4.7 | 54.6 | 7-6 | 3 | 19.5 |
| FFR 747C | 133 | 151 | 138 | 141 | 1.7 | 59.9 | 6-28 | 2 | 16.6 |
| SEEDTEC ST-7680 | 142 | 151 | 126 | 139 | 2.0 | 59.3 | 6-28 | 2 | 16.9 |
| FFR 811 | 133 | 153 | 132 | 139 | 2.3 | 56.9 | 6-28 | 3 | 17.2 |
| JACQUES 7820 | 147 | 147 | 123 | 139 | 2.0 | 59.4 | 6-28 | 2 | 16.3 |
| HYPERFORMER HS 64 | 132 | 159 | 125 | 139 | 1.3 | 58.8 | 6-29 | 3 | 18.0 |
| FFR 844C | 133 | 145 | 137 | 138 | 1.3 | 56.2 | 7-2 | 3 | 18.7 |
| JACQUES 8280 | 136 | 153 | 125 | 138 | 0.7 | 59.7 | 6-27 | 2 | 17.5 |
| AGRATECH GK 750 | 140 | 157 | 113 | 137 | 1.7 | 59.8 | 6-28 | 2 | 16.5 |
| JACQUES 8250 | 119 | 159 | 130 | 136 | 3.3 | 58.1 | 6-30 | 2 | 17.6 |
| TERRA TR 365E | 122 | 144 | 115 | 127 | 1.3 | 59.0 | 6-29 | 2 | 17.5 |
| HYPERFORMER HS 56 | 124 | 140 | 101 | 122 | 1.3 | 58.2 | 6-28 | 2 | 18.3 |
| TEST AVERAGE | 146.6 | 163.2 | 134.6 | | | | | | |
| L.S.D. (.05) | 20.2 | 14.3 | 27.5 | | | | | | |
| C.V. (%) | 9.9 | 6.3 | 14.6 | | | | | | |

* 1= EXCELLENT; 5= VERY POOR.

** MID-SILK DATA FROM BELLE MINA AND CROSSVILLE ONLY.

TABLE 4. TWO- AND THREE-YEAR YIELD AND LODGING AVERAGES FOR CENTRAL ALABAMA*, 1987-89

| BRAND NAME-HYBRID | YIELD PER ACRE, AV. | | LODGED STALKS, AV. | |
|---|---|---|---|---|
| | 3-YR. 1987-89 | 2-YR. 1988-89 | 3-YR. 1987-89 | 2-YR. 1988-89 |
| | BU. | BU. | PCT. | PCT. |
| DEKALB DK 689 | 87 | 77 | 1.8 | 1.0 |
| MCCURDY 7777 | 87 | 87 | 0.8 | 0.8 |
| PIONEER 3165 | 83 | 71 | 0.7 | 0.8 |
| PIONEER 3320 | 83 | 80 | 4.2 | 1.0 |
| ZIMMERMAN Z 27 | 82 | 74 | 0.7 | 0.8 |
| ASGROW/O'S GOLD 2570 | 79 | 75 | 1.8 | 1.0 |
| DEKALB DK 789 | 79 | 69 | 1.7 | 1.8 |
| SUNBELT 1882 | 79 | 73 | 0.3 | 0.3 |
| SUNBELT 1876 | 78 | 71 | 1.3 | 1.0 |
| FUNK'S G-4666 | 78 | 79 | 0.7 | 0.3 |
| DELTAPINE 5750 | 77 | 79 | 0.2 | 0.3 |
| JACQUES 8400 | 77 | 73 | 3.3 | 2.3 |
| AGRATECH GK 900 | 76 | 71 | 1.7 | 1.0 |
| NEW NK PX 95 | 76 | 70 | 3.0 | 1.0 |
| PIONEER 3147 | 76 | 70 | 2.2 | 2.3 |
| SEEDTEC ST-7750 | 76 | 76 | 1.0 | 0.3 |
| SUNBELT 1827 | 74 | 64 | 1.2 | 0.5 |
| SUNBELT 1802 | 74 | 71 | 0.8 | 0.8 |
| AGRATECH GK 850 | 69 | 66 | 1.3 | 1.0 |
| GARST 8180 | - | 81 | - | 0.3 |
| GARST 8116 | - | 75 | - | 0 |
| COKER 8696 | - | 74 | - | 1.8 |
| SUNBELT 1860 | - | 72 | - | 0.8 |
| JACQUES 8350 | - | 70 | - | 1.3 |
| NEW NK MCNAIR 508 | - | 69 | - | 2.5 |
| FUNK'S G-4743 | - | 68 | - | 0.5 |
| JACQUES 8250 | - | 68 | - | 1.8 |
| AGRATECH GK 750 | - | 66 | - | 0.3 |
| CARGILL 9427 | - | 64 | - | 0.8 |
| FUNK'S G-4868 | - | 54 | - | 0.3 |

* PRATTVILLE AND CAMDEN.

TABLE 5. 1989 YIELD OF CORN HYBRIDS BY LOCATION AND REGIONAL AVERAGES OF HYBRID CHARACTERISTICS IN CENTRAL ALABAMA

| BRAND NAME-HYBRID | PRATTVILLE | CAMDEN | 1989 REGIONAL AVERAGES | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | YIELD PER ACRE | LODGED STALKS | TEST WEIGHT | MID-** SILK | HUSK* COVER | HARVEST MOISTURE |
| | BU. | BU. | BU. | PCT. | LB./BU. | MO.-DA. | RATING | PCT. |
| DEKALB DK 711 | 137 | 84 | 111 | 1.0 | 58.8 | 6-10 | 2 | 14.8 |
| MCCURDY 7777 | 140 | 80 | 110 | 0.5 | 54.2 | 6-13 | 3 | 16.0 |
| GARST 8180 | 141 | 77 | 109 | 0 | 55.5 | 6-11 | 2 | 14.7 |
| MCCURDY 8181 | 140 | 76 | 108 | 0.5 | 58.7 | 6-11 | 2 | 16.8 |
| DELTAPINE 5750 | 141 | 73 | 107 | 0.5 | 56.7 | 6-10 | 2 | 15.0 |
| FUNK'S G-4666 | 136 | 77 | 107 | 0.5 | 56.9 | 6-11 | 2 | 15.3 |
| TERRA TR 364E | 132 | 81 | 106 | 0.5 | 57.6 | 6-11 | 2 | 15.9 |
| NEW NK S 8645 | 139 | 73 | 106 | 0 | 57.5 | 6-10 | 2 | 14.7 |
| SUNBELT 1882 | 131 | 78 | 104 | 0 | 55.9 | 6-17 | 2 | 17.9 |
| ASGROW/O'S GOLD 2570 | 137 | 71 | 104 | 1.0 | 55.4 | 6-9 | 3 | 13.6 |
| TERRA TR 366E | 139 | 69 | 104 | 0.5 | 57.3 | 6-9 | 3 | 14.9 |
| DEKALB DK 689 | 139 | 68 | 104 | 0.5 | 54.7 | 6-13 | 2 | 14.2 |
| SEEDTEC 7625 | 137 | 70 | 103 | 0.5 | 57.5 | 6-10 | 3 | 13.6 |
| JACQUES 9220 | 132 | 75 | 103 | 0.5 | 54.2 | 6-12 | 3 | 16.1 |
| TRIUMPH 2020 | 131 | 73 | 102 | 0.5 | 57.1 | 6-11 | 2 | 14.1 |
| SEEDTEC ST-7750 | 135 | 68 | 102 | 0 | 56.4 | 6-11 | 2 | 15.7 |
| SUNBELT 1860 | 128 | 71 | 99 | 0.5 | 55.0 | 6-16 | 3 | 17.1 |
| PIONEER 3320 | 134 | 65 | 99 | 0 | 54.1 | 6-9 | 2 | 13.8 |
| ZIMMERMAN Z 35 | 124 | 74 | 99 | 0.5 | 57.5 | 6-10 | 2 | 14.3 |
| SUNBELT 1802 | 128 | 69 | 98 | 0.5 | 56.4 | 6-9 | 2 | 14.6 |
| GARST 8116 | 127 | 69 | 98 | 0 | 55.3 | 6-11 | 2 | 14.7 |
| NEW NK PX 95 | 124 | 69 | 97 | 1.5 | 55.3 | 6-12 | 3 | 16.0 |
| FFR 747C | 127 | 66 | 96 | 0 | 57.7 | 6-9 | 2 | 13.9 |
| SUNBELT 1827 | 125 | 67 | 96 | 0 | 55.0 | 6-13 | 3 | 15.4 |
| TERRA TR 363E | 122 | 69 | 96 | 0.5 | 56.0 | 6-13 | 3 | 14.6 |
| AGRATECH GK 750 | 130 | 61 | 96 | 0 | 57.9 | 6-9 | 2 | 13.7 |
| ZIMMERMAN Z 38 | 123 | 68 | 95 | 0 | 57.1 | 6-9 | 3 | 15.0 |
| COKER 8696 | 115 | 75 | 95 | 1.0 | 56.4 | 6-10 | 2 | 14.9 |
| TRIUMPH 1650FG | 115 | 74 | 95 | 1.5 | 56.2 | 6-11 | 3 | 16.3 |
| PIONEER 3147 | 123 | 66 | 94 | 0.5 | 51.8 | 6-16 | 3 | 15.6 |
| JACQUES 7900 | 114 | 75 | 94 | 1.0 | 55.1 | 6-10 | 2 | 13.3 |
| JACQUES 8400 | 115 | 74 | 94 | 0.5 | 56.4 | 6-13 | 3 | 16.5 |
| HYPERFORMER HS 97 | 124 | 64 | 94 | 0.5 | 55.8 | 6-13 | 2 | 14.9 |
| SUNBELT 1876 | 121 | 67 | 94 | 1.0 | 54.0 | 6-22 | 3 | 18.9 |
| FUNK'S RA 1502 | 124 | 63 | 94 | 0.5 | 54.7 | 6-9 | 2 | 14.1 |
| CARGILL 8027 | 123 | 62 | 93 | 0 | 55.8 | 6-10 | 2 | 14.0 |

CONTINUED

TABLE 5. 1989 YIELD OF CORN HYBRIDS BY LOCATION AND REGIONAL AVERAGES OF HYBRID CHARACTERISTICS IN CENTRAL ALABAMA

CONTINUED

| BRAND NAME-HYBRID | PRATTVILLE | CAMDEN | 1989 REGIONAL AVERAGES | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | YIELD PER ACRE | LODGED STALKS | TEST WEIGHT | MID-** SILK | HUSK* COVER | HARVEST MOISTURE |
| | BU. | BU. | BU. | PCT. | LB. /BU. | MO. -DA. | RATING | PCT. |
| NC+ 7507 | 131 | 54 | 92 | 0.5 | 54.2 | 6-14 | 3 | 13.7 |
| FFR 955 | 121 | 63 | 92 | 2.5 | 55.3 | 6-14 | 3 | 15.6 |
| DEKALB DK 789 | 114 | 68 | 91 | 0.5 | 51.6 | 6-14 | 3 | 17.2 |
| JACQUES 8210 | 121 | 59 | 90 | 1.0 | 57.1 | 6-9 | 2 | 13.5 |
| PIONEER 3165 | 108 | 72 | 90 | 0.5 | 53.5 | 6-13 | 3 | 14.5 |
| AGRATECH GK 850 | 119 | 61 | 90 | 0.5 | 54.5 | 6-9 | 3 | 13.8 |
| PIONEER 3187 | 119 | 61 | 90 | 1.0 | 52.9 | 6-9 | 3 | 14.6 |
| JACQUES 8350 | 111 | 68 | 90 | 0 | 55.6 | 6-10 | 2 | 15.0 |
| AGRATECH GK 900 | 114 | 65 | 89 | 0.5 | 56.2 | 6-11 | 3 | 15.6 |
| TERRA TR 365E | 123 | 56 | 89 | 0 | 57.3 | 6-10 | 2 | 14.6 |
| ZIMMERMAN Z 27 | 116 | 63 | 89 | 0 | 53.8 | 6-13 | 3 | 13.9 |
| CARGILL 9427 | 105 | 72 | 89 | 0.5 | 53.6 | 6-10 | 3 | 14.2 |
| HYPERFORMER HS 64 | 108 | 67 | 88 | 0.5 | 56.5 | 6-10 | 2 | 14.6 |
| ZIMMERMAN Z 33 | 114 | 61 | 88 | 0 | 57.5 | 6-10 | 2 | 14.4 |
| FUNK'S G-4743 | 101 | 72 | 87 | 0.5 | 57.7 | 6-11 | 2 | 16.2 |
| FFR 811 | 115 | 58 | 86 | 0.5 | 54.0 | 6-10 | 3 | 14.0 |
| JACQUES 8250 | 106 | 63 | 84 | 0.5 | 56.4 | 6-12 | 3 | 14.2 |
| JACQUES 7820 | 105 | 63 | 84 | 0.5 | 57.2 | 6-10 | 2 | 14.0 |
| HYPERFORMER HS 56 | 103 | 59 | 81 | 0.5 | 55.7 | 6-10 | 2 | 15.6 |
| NEW NK MCNAIR 508 | 99 | 60 | 80 | 3.0 | 54.7 | 6-23 | 4 | 20.4 |
| SEEDTEC ST-7680 | 111 | 49 | 80 | 0 | 56.9 | 6-10 | 3 | 14.0 |
| PIONEER 3140 | 100 | 55 | 77 | 0.5 | 52.5 | 6-13 | 3 | 13.8 |
| JACQUES 8280 | 101 | 47 | 74 | 0 | 55.6 | 6-10 | 3 | 14.0 |
| FUNK'S G-4868 | 85 | 60 | 72 | 0.5 | 52.0 | 6-16 | 3 | 16.7 |
| FFR 844C | 81 | 46 | 63 | 0.5 | 51.0 | 6-15 | 3 | 16.0 |
| TEST AVERAGE | 120.9 | 66.8 | | | | | | |
| L.S.D. (.05) | 17.1 | 16.6 | | | | | | |
| C.V. (%) | 10.1 | 17.8 | | | | | | |

* 1= EXCELLENT; 5= VERY POOR.
** MID-SILK DATA FROM PRATTVILLE ONLY.

TABLE 6. TWO- AND THREE-YEAR YIELD AND LODGING AVERAGES FOR SOUTHERN ALABAMA*, 1987-89

| BRAND NAME-HYBRID | YIELD PER ACRE, AV. | | LODGED STALKS, AV. | |
|---|---|---|---|---|
| | 3-YR. 1987-89 | 2-YR. 1988-89 | 3-YR. 1987-89 | 2-YR. 1988-89 |
| | BU. | BU. | PCT. | PCT. |
| DEKALB DK 689 | 102 | 104 | 2.3 | 3.4 |
| SUNBELT 1860 | 99 | 94 | 1.6 | 1.9 |
| DEKALB DK 789 | 94 | 91 | 1.9 | 2.8 |
| DEKALB DK 711 | 94 | 92 | 3.4 | 5.0 |
| AGRATECH GK 900 | 92 | 91 | 3.7 | 5.3 |
| FUNK'S G-4666 | 92 | 93 | 0.8 | 1.0 |
| SEEDTEC ST-7750 | 92 | 91 | 0.8 | 1.3 |
| SUNBELT 1827 | 92 | 87 | 1.5 | 1.8 |
| SUNBELT 1882 | 92 | 88 | 1.3 | 1.9 |
| PIONEER 3147 | 92 | 91 | 3.2 | 4.6 |
| NEW NK PX 9581 | 91 | 92 | 2.0 | 2.9 |
| ASGROW/O'S GOLD 2570 | 90 | 91 | 3.1 | 4.6 |
| DELTAPINE 5750 | 90 | 92 | 0.5 | 0.8 |
| PIONEER 3165 | 89 | 81 | 4.6 | 6.8 |
| JACQUES 8400 | 89 | 90 | 5.1 | 7.1 |
| NEW NK PX 95 | 89 | 86 | 3.7 | 5.3 |
| ZIMMERMAN Z 27 | 88 | 89 | 1.4 | 2.1 |
| SUNBELT 1802 | 87 | 88 | 1.0 | 1.4 |
| PIONEER 3320 | 86 | 82 | 3.3 | 4.1 |
| CARGILL 9427 | 85 | 86 | 2.5 | 3.3 |
| AGRATECH GK 850 | 85 | 87 | 1.8 | 2.6 |
| MCCURDY 7777 | - | 98 | - | 4.1 |
| NEW NK MCNAIR 508 | - | 97 | - | 3.8 |
| GARST 8116 | - | 93 | - | 1.5 |
| GARST 8180 | - | 92 | - | 3.1 |
| SUNBELT 1876 | - | 90 | - | 8.5 |
| AGRATECH GK 750 | - | 85 | - | 1.4 |
| FUNK'S G-4743 | - | 85 | - | 1.9 |

* FAIRHOPE, BREWTON, MONROEVILLE, AND HEADLAND.

TABLE 7. 1989 YIELD OF CORN HYBRIDS BY LOCATION AND REGIONAL AVERAGES OF HYBRID CHARACTERISTICS IN SOUTHERN ALABAMA

| BRAND NAME-HYBRID | FAIRHOPE | BREWTON | MONROEVILLE | HEADLAND | 1989 REGIONAL AVERAGES | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | YIELD PER ACRE | LODGED STALKS | TEST WEIGHT | MID-SILK | HUSK* COVER | HARVEST** MOISTURE |
| | BU. | BU. | BU. | BU. | BU. | PCT. | LB./BU. | MO.-DA. | RATING | PCT. |
| SUNBELT 7400 | 125 | 143 | 116 | 130 | 128 | 3.3 | 55.4 | 6-14 | 2 | 15.8 |
| MCCURDY 8181 | 118 | 124 | 116 | 144 | 125 | 0.5 | 58.1 | 6-9 | 2 | 15.6 |
| DEKALB DK 689 | 129 | 103 | 105 | 150 | 122 | 0.8 | 55.3 | 6-3 | 2 | 14.9 |
| NEW NK MCNAIR 508 | 135 | 128 | 99 | 109 | 118 | 1.5 | 56.9 | 6-17 | 2 | 16.2 |
| AGRATECH GK 900 | 120 | 120 | 97 | 131 | 117 | 2.0 | 57.5 | 6-8 | 2 | 15.1 |
| NC+ 7507 | 127 | 101 | 93 | 145 | 116 | 1.5 | 55.3 | 6-4 | 2 | 14.7 |
| JACQUES 8400 | 126 | 89 | 113 | 136 | 116 | 5.8 | 57.9 | 6-9 | 2 | 14.9 |
| SUNBELT 1860 | 111 | 91 | 107 | 146 | 114 | 1.5 | 56.1 | 6-10 | 2 | 15.3 |
| SUNBELT 1827 | 126 | 94 | 106 | 129 | 113 | 1.0 | 56.3 | 6-3 | 2 | 15.1 |
| TERRA TR 366E | 118 | 91 | 106 | 132 | 112 | 1.0 | 57.2 | 6-6 | 2 | 14.9 |
| GARST 8116 | 123 | 89 | 94 | 139 | 111 | 0.3 | 56.9 | 6-9 | 2 | 14.5 |
| MCCURDY 7777 | 127 | 101 | 97 | 120 | 111 | 3.3 | 55.6 | 6-9 | 2 | 14.8 |
| ASGROW/O'S GOLD 2570 | 120 | 83 | 108 | 132 | 111 | 2.3 | 54.6 | 6-6 | 2 | 14.5 |
| SUNBELT 1876 | 105 | 115 | 97 | 123 | 110 | 6.5 | 41.8 | 6-17 | 2 | 15.4 |
| DEKALB DK 711 | 125 | 109 | 92 | 114 | 110 | 3.3 | 57.6 | 6-7 | 2 | 15.0 |
| FUNK'S RA 1502 | 121 | 86 | 90 | 141 | 109 | 0.5 | 55.5 | 6-7 | 2 | 14.7 |
| CARGILL 8027 | 128 | 93 | 83 | 132 | 109 | 0.3 | 56.2 | 6-6 | 2 | 14.7 |
| NEW NK PX 95 | 119 | 97 | 91 | 128 | 109 | 4.5 | 55.2 | 6-10 | 2 | 15.0 |
| NEW NK PX 9581 | 126 | 89 | 101 | 115 | 108 | 0.5 | 55.6 | 6-5 | 2 | 14.8 |
| ZIMMERMAN Z 27 | 114 | 82 | 82 | 149 | 107 | 0.8 | 54.8 | 6-12 | 3 | 14.5 |
| GARST 8180 | 122 | 72 | 112 | 120 | 106 | 3.3 | 56.0 | 6-10 | 2 | 14.5 |
| HYPERFORMER HS 97 | 103 | 83 | 98 | 138 | 106 | 3.0 | 56.7 | 6-9 | 2 | 14.4 |
| AGRATECH GK 850 | 106 | 87 | 92 | 136 | 105 | 1.5 | 55.5 | 6-6 | 2 | 14.9 |
| TRIUMPH 2020 | 117 | 79 | 88 | 137 | 105 | 0.3 | 57.0 | 6-8 | 2 | 14.6 |
| TERRA TR 364E | 107 | 83 | 95 | 133 | 105 | 1.0 | 57.0 | 6-9 | 2 | 14.9 |
| DEKALB DK 789 | 129 | 106 | 81 | 102 | 104 | 1.5 | 55.2 | 6-10 | 3 | 15.5 |
| PIONEER 3147 | 114 | 78 | 95 | 130 | 104 | 2.3 | 53.9 | 6-12 | 3 | 15.0 |
| JACQUES 9220 | 112 | 109 | 70 | 122 | 103 | 5.0 | 55.9 | 6-9 | 2 | 14.9 |
| JACQUES 8210 | 120 | 71 | 104 | 118 | 103 | 0.8 | 55.4 | 6-6 | 2 | 14.4 |
| ZIMMERMAN Z 38 | 114 | 95 | 93 | 110 | 103 | 0.8 | 56.0 | 6-6 | 2 | 15.0 |
| SUNBELT 1882 | 108 | 100 | 82 | 122 | 103 | 0.8 | 56.3 | 6-11 | 2 | 15.4 |
| SUNBELT 1802 | 125 | 94 | 69 | 122 | 103 | 0.3 | 55.9 | 6-6 | 2 | 14.7 |
| CARGILL 9427 | 111 | 89 | 78 | 130 | 102 | 2.5 | 54.5 | 6-7 | 2 | 14.7 |
| FUNK'S G-4666 | 118 | 71 | 83 | 134 | 101 | 1.3 | 56.6 | 6-9 | 2 | 14.5 |

CONTINUED

TABLE 7. 1989 YIELD OF CORN HYBRIDS BY LOCATION AND REGIONAL AVERAGES OF HYBRID CHARACTERISTICS IN SOUTHERN ALABAMA

CONTINUED

| BRAND NAME-HYBRID | FAIRHOPE | BREWTON | MONROEVILLE | HEADLAND | 1989 REGIONAL AVERAGES | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | YIELD PER ACRE | LODGED STALKS | TEST WEIGHT | MID-SILK | HUSK* COVER | HARVEST** MOISTURE |
| | BU. | BU. | BU. | BU. | BU. | PCT. | LB./BU. | MO.-DA. | RATING | PCT. |
| TERRA TR 363E | 99 | 92 | 86 | 128 | 101 | 1.8 | 56.4 | 6-10 | 2 | 14.6 |
| TRIUMPH 1650FC | 104 | 79 | 100 | 123 | 101 | 5.0 | 57.5 | 6-8 | 2 | 14.6 |
| DELTAPINE 5750 | 124 | 72 | 81 | 125 | 101 | 0.3 | 57.1 | 6-9 | 2 | 14.8 |
| NC+ 6414 | 105 | 87 | 93 | 116 | 100 | 0.5 | 55.5 | 6-5 | 3 | 14.7 |
| AGRIPRO EX 794 | 97 | 91 | 92 | 122 | 100 | 0.3 | 57.4 | 6-3 | 2 | 14.7 |
| NEW NK S 8645 | 107 | 75 | 88 | 128 | 100 | 0.3 | 57.5 | 6-8 | 2 | 14.6 |
| TERRA TR 365E | 113 | 74 | 92 | 117 | 99 | 0.5 | 56.8 | 6-5 | 1 | 14.7 |
| FUNK'S G-4743 | 105 | 84 | 94 | 112 | 99 | 0.5 | 56.8 | 6-8 | 2 | 14.8 |
| AGRATECH GK 750 | 106 | 77 | 83 | 129 | 98 | 0.5 | 55.9 | 6-6 | 2 | 14.7 |
| SEEDTEC ST-7750 | 118 | 60 | 95 | 119 | 98 | 0.8 | 56.7 | 6-9 | 2 | 14.5 |
| PIONEER 3140 | 116 | 63 | 89 | 124 | 98 | 0.5 | 53.9 | 6-9 | 2 | 15.0 |
| ZIMMERMAN Z 33 | 119 | 70 | 94 | 108 | 98 | 1.3 | 56.1 | 6-8 | 3 | 14.8 |
| PIONEER 3320 | 117 | 74 | 83 | 117 | 98 | 2.0 | 55.2 | 6-7 | 2 | 14.4 |
| FFR 955 | 98 | 89 | 81 | 121 | 97 | 10.3 | 56.2 | 6-11 | 2 | 15.0 |
| NC+ 5891 | 104 | 77 | 90 | 115 | 97 | 0.3 | 56.3 | 6-6 | 2 | 14.8 |
| JACQUES 8350 | 108 | 78 | 75 | 126 | 96 | 0.8 | 54.7 | 6-6 | 2 | 14.6 |
| ZIMMERMAN Z 35 | 111 | 49 | 101 | 125 | 96 | 0.8 | 56.4 | 6-9 | 2 | 14.4 |
| SEEDTEC 7625 | 120 | 79 | 73 | 108 | 95 | 0.3 | 55.4 | 6-7 | 2 | 14.7 |
| FFR 747C | 121 | 66 | 86 | 107 | 95 | 0.5 | 55.9 | 6-5 | 2 | 14.4 |
| SEEDTEC ST-7680 | 112 | 76 | 75 | 110 | 93 | 0.3 | 56.4 | 6-6 | 2 | 14.8 |
| PIONEER 3187 | 85 | 83 | 88 | 112 | 92 | 1.5 | 54.8 | 6-7 | 2 | 14.6 |
| PIONEER 3165 | 101 | 74 | 69 | 115 | 90 | 1.8 | 53.5 | 6-9 | 3 | 14.8 |
| FUNK'S G-4543 | 111 | 55 | 67 | 105 | 84 | 0.3 | 56.6 | 6-7 | 2 | 14.4 |
| HYPERFORMER HS 64 | 111 | 43 | 73 | 107 | 84 | 1.3 | 55.5 | 6-8 | 2 | 14.5 |
| JACQUES 7820 | 105 | 59 | 78 | 90 | 83 | 0.3 | 55.7 | 6-6 | 2 | 14.7 |
| HYPERFORMER HS 56 | 97 | 67 | 71 | 90 | 81 | 1.3 | 55.4 | 6-6 | 2 | 14.9 |
| FFR 811 | 94 | 53 | 69 | 70 | 71 | 0.8 | 53.3 | 6-7 | 3 | 14.7 |
| FFR 844C | 79 | 46 | 72 | 75 | 68 | 1.3 | 53.9 | 6-11 | 2 | 14.8 |
| TEST AVERAGE | 113.3 | 84.3 | 89.8 | 121.5 | | | | | | |
| L.S.D. (.05) | 22.6 | 34.5 | 26.2 | 24.7 | | | | | | |
| C.V. (%) | 14.3 | 29.4 | 20.9 | 14.6 | | | | | | |

* 1= EXCELLENT; 5= VERY POOR.

** HARVEST MOISTURE DATA FROM FAIRHOPE, BREWTON, AND MONROEVILLE.

TABLE 8. BLACK BELT* CORN HYBRID/VIRUS TEST, 1986 & 1988-89

| BRAND NAME-HYBRID | YIELD PER ACRE, AV. | | | LODGED STALKS, AV. | | | 1989 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 3-YR. 1986&88-89 | 2-YR. 1988-89 | 1989 | 3-YR. 1986&88-89 | 2-YR. 1988-89 | 1989 | MIDSILK | TEST WEIGHT | HUSK** COVER | HARVEST MOISTURE |
| | BU. | BU. | BU. | PCT. | PCT. | PCT. | MO.-DA. | LB./BU. | RATING | PCT. |
| DEKALB DK 689 | 81 | 85 | 97 | 2.3 | 0.5 | 0 | 6-28 | 54.9 | 2 | 15.3 |
| MCCURDY 7777 | 80 | 81 | 99 | 2.0 | 1.0 | 1.0 | 6-28 | 56.7 | 3 | 16.7 |
| DEKALB DK 789 | 71 | 74 | 104 | 4.0 | 1.0 | 1.0 | 6-30 | 55.6 | 3 | 16.9 |
| ZIMMERMAN Z 27 | 68 | 64 | 84 | 1.3 | 0.5 | 0 | 6-30 | 56.2 | 2 | 15.5 |
| JACQUES 8400 | 67 | 70 | 104 | 2.7 | 1.0 | 1.0 | 6-27 | 57.8 | 4 | 17.1 |
| SUNBELT 1860 | 67 | 66 | 89 | 2.3 | 0.5 | 1.0 | 6-30 | 57.4 | 2 | 17.5 |
| NEW NK PX 95 | 66 | 71 | 111 | 4.0 | 0.5 | 0 | 6-28 | 56.9 | 2 | 15.5 |
| PIONEER 3147 | 66 | 66 | 106 | 4.3 | 0.5 | 1.0 | 6-29 | 52.4 | 3 | 15.6 |
| PIONEER 3187 | 65 | 59 | 89 | 3.0 | 1.0 | 1.0 | 6-28 | 53.2 | 2 | 15.7 |
| FUNK'S G-4666 | 57 | 59 | 72 | 1.0 | 0.5 | 0 | 6-27 | 56.4 | 2 | 15.4 |
| SUNBELT 1882 | 53 | 60 | 97 | 2.7 | 0 | 0 | 6-30 | 55.7 | 2 | 18.3 |
| COKER 8696 | 52 | 59 | 74 | 3.7 | 2.5 | 1.0 | 6-28 | 54.9 | 2 | 16.1 |
| NEW NK PX 79 | 52 | 57 | 91 | 1.3 | 0.5 | 1.0 | 6-28 | 54.0 | 2 | 15.1 |
| FUNK'S G-4868 | 51 | 53 | 89 | 1.3 | 0 | 0 | 7-1 | 54.3 | 3 | 18.4 |
| FFR 929W | 49 | 47 | 66 | 2.0 | 1.0 | 2.0 | 6-29 | 56.7 | 1 | 16.5 |
| JACQUES 9220 | - | 81 | 107 | - | 3.5 | 6.0 | 6-28 | 56.9 | 2 | 16.4 |
| FUNK'S G-4743 | - | 77 | 106 | - | 0 | 0 | 6-28 | 58.4 | 2 | 16.3 |
| AGRATECH GK 900 | - | 66 | 92 | - | 1.0 | 1.0 | 6-26 | 57.4 | 4 | 16.1 |
| DEKALB DK 649 | - | 63 | 98 | - | 0 | 0 | 6-28 | 54.7 | 3 | 15.5 |
| FUNK'S 8018 X | - | 60 | 96 | - | 0 | 0 | 6-29 | 55.0 | 2 | 17.1 |
| JACQUES 8280 | - | 50 | 60 | - | 0.5 | 0 | 6-28 | 56.0 | 1 | 15.5 |
| FFR 844C | - | 48 | 65 | - | 0.5 | 0 | 6-30 | 53.2 | 3 | 16.0 |
| PIONEER 3165 | - | - | 108 | - | - | 0 | 6-29 | 54.0 | 3 | 16.4 |
| ZIMMERMAN Z 33 | - | - | 104 | - | - | 1.0 | 6-29 | 56.8 | 3 | 15.7 |
| FFR 955 | - | - | 97 | - | - | 5.0 | 6-29 | 56.1 | 3 | 16.5 |
| HYPERFORMER HS 97 | - | - | 85 | - | - | 1.0 | 6-29 | 56.9 | 2 | 15.6 |
| CARGILL 9400W | - | - | 84 | - | - | 1.0 | 6-29 | 57.4 | 2 | 16.0 |
| AGRATECH 8910 | - | - | 83 | - | - | 0 | 6-28 | 56.2 | 2 | 16.1 |
| DELTAPINE 5750 | - | - | 79 | - | - | 0 | 6-28 | 57.4 | 2 | 15.5 |
| AGRIPRO EX 794 | - | - | 77 | - | - | 0 | 6-28 | 58.2 | 1 | 15.8 |
| AGRATECH 888 | - | - | 76 | - | - | 0 | 6-28 | 57.0 | 1 | 15.1 |
| FUNK'S 6096X | - | - | 62 | - | - | 0 | 6-29 | 52.9 | 3 | 15.6 |
| ZIMMERMAN Z 35 | - | - | 54 | - | - | 0 | 6-29 | 55.5 | 2 | 15.7 |
| TEST AVERAGE | | | 87.8 | | | | | | | |
| L.S.D. (.05) | | | 24.2 | | | | | | | |
| C.V. (%) | | | 19.6 | | | | | | | |

* MARION JUNCTION. SEE TABLE 9 FOR VIRUS DISEASE REACTIONS.

** 1= EXCELLENT; 5= VERY POOR.

## VIRUS DISEASE REACTIONS OF SOME HYBRIDS IN 1989[2]

The most prevalent virus diseases of corn in Alabama are maize chlorotic dwarf (MCD), caused by the maize chlorotic dwarf virus (MCDV), and maize dwarf mosaic (MDM), caused by the maize dwarf mosaic virus (MDMV). Discovery of MDM in the State dates back to the early 1960's, while MCD has been recognized since 1973. Both diseases probably occur throughout Alabama; however, they generally have been more prevalent and damaging in the northern two-thirds of the State.

Symptoms of the two diseases are similar in appearance and sometimes difficult to distinguish. Generally, affected plants are chlorotic or discolored and may be stunted. Leaves of MDM diseased plants show an irregular, light and dark green mosaic or mottle; the initial symptom of MCD is a fine, chlorotic streaking over the smallest veins.

The causal viruses are spread by feeding activities of insects. MCDV is transmitted by certain leafhoppers, and MDMV is carried by some aphids. Both viruses have similar host ranges among a variety of wild and cultivated grasses. Johnsongrass is an important overseason or reservoir host for the viruses, and MCD and MDM incidence and damage usually are high in corn fields that are heavily infested with johnsongrass.

Use of resistant or tolerant corn hybrids and the control of johnsongrass or avoidance of johnsongrass-infested areas are the most practical controls for MCD and MDM. Commercial and experimental hybrids are evaluated yearly to

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[2]Prepared by Robert T. Gudauskas, Professor of Plant Pathology.

identify resistant hybrids or promising sources of resistance to the diseases. Results of evaluations of some commercial hybrids during 1989 are summarized in this report.

## Procedure

Virus disease ratings were made on entries in the corn hybrid tests at the Prattville Experiment Field, Prattville, the Black Belt Substation, Marion Junction, the Tennessee Valley Substation, Belle Mina, and the Upper Coastal Plain Substation, Winfield. Plants showing symptoms of MCD and/or MDM were counted, and data are reported as percent incidence of the diseases for each hybrid.

## Results

In the test of 61 hybrids at the Prattville Experiment Field, incidence of MCD ranged from 0 to 28.6 percent and averaged 8.2 percent; incidence of MDM ranged from 0 to 9.3 percent and averaged 1.0 percent, tables 9 & 10. Eleven hybrids showed no symptoms of either disease. Among the 33 hybrids tested at the Black Belt Substation, incidence of MCD ranged from 0 to 22.1 percent and averaged 4.4 percent, while that for MDM ranged from 0 to 7.3 percent and averaged 1.1 percent, tables 9 & 10. Only three hybrids showed no symptoms of either disease; however, incidence of both diseases was less than 2 percent in 22 other hybrids. Levels of MDM in the two tests in north Alabama were about the same as those seen in central Alabama; however, incidence of MCD was much lower in northern Alabama. In the test of 60 hybrids at the Tennessee Valley Substation, incidence of MCD ranged from 0 to 3.5 percent and averaged 0.3 percent; incidence of MDM ranged from 0 to 9.6 percent and averaged 1.0 percent, table 9 & 10. Thirty-six hybrids showed no symptoms of either disease. At the Upper Coastal Plain Substation, incidence of MCD ranged from 0 to 6.9 percent and averaged 0.6 percent among the 60 hybrids in the test;

that for MDM ranged from 0 to 20.7 percent and averaged 2.9 percent, tables 9 & 10. Twenty-four hybrids showed no symptoms of either disease.

Hybrids showing relatively greater resistance or tolerance were apparent at all locations. Under conditions of higher or lower incidence of virus diseases, hybrids would be expected to retain their relative ranking. When selecting a hybrid, virus disease reactions should be taken into account for areas where the diseases are known or suspected to occur, along with considerations of yield and other characteristics given elsewhere in this report.

TABLE 9. INCIDENCE OF MAIZE CHLOROTIC DWARF VIRUS DISEASES IN REGULAR CORN HYBRIDS TESTS, 1989

| Brand name | Hybrid | Marion Junction August 3 | Prattville July 28 | Winfield July 20 | Belle Mina July 21 |
|---|---|---|---|---|---|
| | | Pct. | Pct. | Pct. | Pct. |
| AgraTech | 750 | - | 0 | 0 | 0.5 |
| AgraTech | GK 850 | - | 0 | 6.9 | 0 |
| AgraTech | 888 | 1.6 | - | - | - |
| AgraTech | GK 900 | 10.7 | 3.6 | 0 | 0 |
| AgraTech | 8910 | 2.1 | - | - | - |
| AgriPro | EX 794 | 8.7 | - | - | - |
| Asgrow/O's Gold | 2570 | - | 5.3 | 3.1 | 0 |
| Cargill | 8027 | - | 14.8 | 0 | 0 |
| Cargill | 9400W | 1.0 | - | - | - |
| Cargill | 9427 | - | 25.0 | 3.3 | 2.0 |
| Coker | 8696 | 2.0 | 1.9 | 0 | 1.7 |
| Dekalb | DK 649 | 10.6 | - | - | - |
| Dekalb | DK 689 | 1.6 | 3.4 | 0 | 0 |
| Dekalb | DK 711 | - | 1.9 | 0 | 1.7 |
| Dekalb | DK 789 | 0 | 8.5 | 0 | 0 |
| Deltapine | 5750 | 6.5 | 1.8 | 3.6 | 0 |
| FFR | 747C | - | 0 | 0 | 0 |
| FFR | 811 | - | 0 | 0 | 0 |
| FFR | 844C | 8.4 | 26.7 | 0 | 0 |
| FFR | 929W | 7.5 | - | - | - |
| FFR | 955 | 6.3 | 1.8 | 1.4 | 0 |
| Funk's | G-4543 | - | - | 0 | 0 |
| Funk's | G-4666 | 3.1 | 3.5 | 0 | 0 |
| Funk's | G-4743 | 0 | 28.6 | 0 | 0 |
| Funk's | G-4868 | 0 | 15.5 | 0 | 0 |
| Funk's | G-6096X | 22.1 | - | - | - |
| Funk's | G-8018X | 5.5 | - | - | - |
| Funk's | RA 1502 | - | 21.7 | 1.5 | 0 |
| Garst | 8116 | - | 17.0 | 1.4 | 0 |
| Garst | 8180 | - | 5.4 | 3.0 | 1.9 |
| HyPerformer | HS 56 | - | 15.2 | 1.9 | 0 |
| HyPerformer | HS 64 | - | 10.9 | 0 | 0 |
| HyPerformer | HS 97 | 9.7 | 9.6 | 0 | 0 |
| Jacques | 7820 | - | 7.0 | 0 | 0 |
| Jacques | 7900 | - | 3.7 | 0 | 0 |
| Jacques | 8210 | - | 21.0 | 1.3 | 0 |
| Jacques | 8250 | - | 1.8 | 0 | 0 |
| Jacques | 8280 | 10.0 | 7.0 | 0 | 0 |
| Jacques | 8350 | - | 13.4 | - | - |
| Jacques | 8400 | 1.6 | 13.0 | 0 | 0 |
| Jacques | 9220 | 0 | 10.5 | - | - |

Continued

Table 9 (Continued). INCIDENCE OF MAIZE CHLOROTIC DWARF VIRUS DISEASES IN REGULAR CORN HYBRIDS TESTS, 1989

| Brand name | Hybrid | Marion Jnction August 3 | Prattville July 28 | Winfield July 20 | Belle Mina July 21 |
|---|---|---|---|---|---|
| | | Pct. | Pct. | Pct. | Pct. |
| McCurdy | 7777 | 1.0 | 12.0 | 0 | 1.9 |
| McCurdy | 8181 | - | 1.8 | 0 | 0 |
| NC+ | 7507 | - | 3.7 | 0 | 0 |
| New NK | McNair 508 | - | 1.9 | 0 | 0 |
| New NK | PX 79 | 0 | - | - | - |
| New NK | PX 95 | 1.4 | 0 | 0 | 0 |
| New NK | PX 9581 | - | - | 0 | 0 |
| New NK | S 8645 | - | 26.3 | 0 | 0 |
| Pioneer | 3140 | - | 17.3 | 0 | 0 |
| Pioneer | 3147 | 2.1 | 0 | 0 | 0 |
| Pioneer | 3165 | 2.0 | 3.7 | 0 | 0 |
| Pioneer | 3187 | 2.1 | 0 | 0 | 3.5 |
| Pioneer | 3320 | 0 | 0 | 1.6 | 0 |
| SeedTec | 7625 | - | 7.8 | 1.6 | 0 |
| SeedTec | ST-7680 | - | 13.7 | 1.4 | 0 |
| SeedTec | ST-7750 | - | 0 | 0 | 2.0 |
| Sunbelt | 1802 | - | 8.3 | 2.8 | 0 |
| Sunbelt | 1827 | - | 20.7 | 0 | 0 |
| Sunbelt | 1860 | 1.0 | 1.8 | 0 | 0 |
| Sunbelt | 1876 | - | 0 | 0 | 0 |
| Sunbelt | 1882 | 1.3 | 0 | 0 | 0 |
| Terra | TR 363E | - | 27.1 | 0 | 0 |
| Terra | TR 364E | - | 0 | 1.4 | 0 |
| Terra | TR 365E | - | 11.8 | 0 | 0 |
| Terra | TR 366E | - | 0 | 0 | 2.0 |
| Triumph | 1650FG | - | 12.7 | 0 | 0 |
| Triumph | 2020 | - | 3.7 | 0 | 0 |
| Zimmerman | Z 27 | 1.4 | 16.7 | 0 | 3.4 |
| Zimmerman | Z 33 | 2.2 | 3.6 | - | - |
| Zimmerman | Z 35 | 11.0 | 1.7 | 0 | - |
| Zimmerman | Z 38 | - | 7.8 | 0 | 0 |

TABLE 10. INCIDENCE OF MAIZE CHLOROTIC DWARF VIRUS DISEASES IN REGULAR CORN HYBRIDS TESTS, 1989

| Brand name | Hybrid | Marion Junction August 3 | Prattville July 28 | Winfield July 20 | Belle Mina July 21 |
|---|---|---|---|---|---|
| | | Pct. | Pct. | Pct. | Pct. |
| AgraTech | 750 | - | 0 | 3.1 | 0.5 |
| AgraTech | GK 850 | - | 0 | 20.7 | 0 |
| AgraTech | 888 | 1.4 | - | - | - |
| AgraTech | GK 900 | 0 | 1.8 | 0 | 1.9 |
| AgraTech | 8910 | 0 | - | - | - |
| AgriPro | EX 794 | 7.3 | - | - | - |
| Asgrow/O's Gold | 2570 | - | 0 | 1.6 | 0 |
| Cargill | 8027 | - | 1.9 | 7.9 | 0 |
| Cargill | 9400W | 0 | - | - | - |
| Cargill | 9427 | - | 0 | 1.7 | 5.9 |
| Coker | 8696 | 0 | 0 | 0 | 1.7 |
| Dekalb | DK 649 | 1.0 | - | - | - |
| Dekalb | DK 689 | 0 | 3.4 | 0 | 0 |
| Dekalb | DK 711 | - | 0 | 0 | 0 |
| Dekalb | DK 789 | 0 | 2.1 | 0 | 0 |
| Deltapine | 5750 | 2.0 | 0 | 1.8 | 0 |
| FFR | 747C | - | 0 | 3.0 | 0 |
| FFR | 811 | - | 1.7 | 0 | 2.0 |
| FFR | 844C | 0 | 1.7 | 0 | 1.7 |
| FFR | 929W | 3.1 | - | - | - |
| FFR | 955 | 0 | 1.8 | 0 | 3.4 |
| Funk's | G-4543 | - | - | 0 | 0 |
| Funk's | G-4666 | 3.7 | 0 | 4.4 | 1.8 |
| Funk's | G-4743 | 0 | 3.6 | 0 | 0 |
| Funk's | G-4868 | 1.0 | 1.7 | 1.9 | 0 |
| Funk's | G-6096X | 1.1 | - | - | - |
| Funk's | G-8018X | 0 | - | - | - |
| Funk's | RA 1502 | - | 0 | 4.3 | 1.9 |
| Garst | 8116 | - | 1.9 | 2.8 | 0 |
| Garst | 8180 | - | 0 | 0 | 3.8 |
| HyPerformer | HS 56 | - | 0 | 13.2 | 2.0 |
| HyPerformer | HS 64 | - | 0 | 2.9 | 0 |
| HyPerformer | HS 97 | 1.0 | 0 | 1.7 | 0 |
| Jacques | 7820 | - | 0 | 0 | 0 |
| Jacques | 7900 | - | 0 | 8.0 | 2.0 |
| Jacques | 8210 | - | 0 | 0 | 0 |
| Jacques | 8250 | - | 0 | 3.6 | 0 |
| Jacques | 8280 | 3.3 | 0 | 0 | 0 |
| Jacques | 8350 | 0 | 1.5 | - | - |
| Jacques | 8400 | 0 | 1.9 | 0 | 0 |
| Jacques | 9220 | 0 | 0 | - | - |

Continued

Table 10 (Continued). INCIDENCE OF MAIZE CHLOROTIC DWARF VIRUS DISEASES IN REGULAR CORN HYBRIDS TESTS, 1989

| Brand name | Hybrid | Marion Junction August 3 | Prattville July 28 | Winfield July 20 | Belle Mina July 21 |
|---|---|---|---|---|---|
| | | Pct. | Pct. | Pct. | Pct. |
| McCurdy | 7777 | 0 | 4.0 | 0 | 9.6 |
| McCurdy | 8181 | - | 0 | 3.4 | 5.3 |
| NC+ | 7507 | - | 5.6 | 8.2 | 0 |
| New NK | McNair 508 | - | 1.9 | 0 | 1.9 |
| New NK | PX 79 | 1.5 | 0 | 0 | 0 |
| New NK | PX 95 | 0 | - | 0 | 0 |
| New NK | PX 9581 | - | - | 11.9 | 0 |
| New NK | S 8645 | - | 1.8 | 0 | 0 |
| Pioneer | 3140 | - | 0 | 0 | 0 |
| Pioneer | 3147 | 4.3 | 0 | 0 | 2.0 |
| Pioneer | 3165 | 0 | 0 | 0 | 0 |
| Pioneer | 3187 | 4.3 | 0 | 4.7 | 0 |
| Pioneer | 3320 | - | 0 | 1.6 | 0 |
| SeedTec | 7625 | - | 0 | 4.7 | 1.8 |
| SeedTec | ST-7680 | - | 0 | 1.4 | 0 |
| SeedTec | ST-7750 | - | 1.7 | 1.5 | 2.0 |
| Sunbelt | 1802 | - | 3.3 | 1.4 | 0 |
| Sunbelt | 1827 | - | 0 | 18.7 | 1.9 |
| Sunbelt | 1860 | 0 | 0 | 0 | 0 |
| Sunbelt | 1876 | - | 0 | 0 | 3.5 |
| Sunbelt | 1882 | 0 | 0 | 0 | 0 |
| Terra | TR 363E | - | 6.2 | 0 | 0 |
| Terra | TR 364E | - | 0 | 0 | 0 |
| Terra | TR 365E | - | 0 | 3.1 | 0 |
| Terra | TR 366E | - | 0 | 2.9 | 0 |
| Triumph | 1650FG | - | 1.8 | 6.2 | 0 |
| Triumph | 2020 | - | 3.7 | 0 | 0 |
| Zimmerman | Z 27 | 0 | 9.3 | 10.1 | 0 |
| Zimmerman | Z 33 | 2.2 | 0 | - | - |
| Zimmerman | Z 35 | 0 | 0 | 0 | 0 |
| Zimmerman | Z 38 | - | 0 | 1.6 | 0 |

TABLE 11. IRRIGATED CORN HYBRID PERFORMANCE AND CHARACTERISTICS, HEADLAND, ALABAMA, 1987-89*

| BRAND NAME-HYBRID | YIELD PER ACRE, AV. | | | LODGED STALKS, AV. | | | 1989 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 3-YR. 1987-89 | 2-YR. 1988-89 | 1989 | 3-YR. 1987-89 | 2-YR. 1988-89 | 1989 | MIDSILK | TEST WEIGHT | HUSK** COVER | HARVEST MOISTURE |
| | BU. | BU. | BU. | PCT. | PCT. | PCT. | MO.-DA. | LB./BU. | RATING | PCT. |
| DEKALB DK 689 | 160 | 172 | 160 | 2.0 | 1.5 | 2.0 | 6-13 | 56.0 | 2 | 14.7 |
| SUNBELT 1860 | 146 | 146 | 137 | 1.7 | 1.5 | 2.0 | 6-13 | 57.4 | 2 | 14.7 |
| SUNBELT 1827 | 142 | 145 | 139 | 0.7 | 0.5 | 0 | 6-13 | 59.6 | 3 | 14.7 |
| ASGROW/D'S GOLD 2570 | 140 | 143 | 142 | 1.0 | 1.0 | 2.0 | 6-9 | 55.0 | 2 | 14.7 |
| AGRATECH GK 900 | 138 | 145 | 158 | 1.0 | 1.5 | 0 | 6-9 | 59.5 | 2 | 14.7 |
| PIONEER 3165 | 136 | 141 | 120 | 1.3 | 1.5 | 1.0 | 6-13 | 56.4 | 2 | 14.7 |
| DEKALB DK 711 | 135 | 133 | 136 | 3.7 | 3.5 | 3.0 | 6-11 | 56.0 | 2 | 14.7 |
| NEW NK PX 95 | 135 | 137 | 131 | 3.0 | 2.5 | 2.0 | 6-11 | 56.5 | 3 | 14.7 |
| DEKALB DK 789 | 135 | 137 | 136 | 2.3 | 3.0 | 4.0 | 6-11 | 56.3 | 2 | 14.7 |
| SEEDTEC ST-7750 | 134 | 144 | 148 | 1.3 | 0.5 | 0 | 6-11 | 58.7 | 3 | 14.7 |
| DELTAPINE 5750 | 134 | 147 | 148 | 1.0 | 1.5 | 2.0 | 6-13 | 57.7 | 2 | 14.7 |
| SUNBELT 1802 | 132 | 140 | 132 | 1.3 | 1.5 | 1.0 | 6-11 | 57.1 | 2 | 14.7 |
| PIONEER 3147 | 132 | 132 | 125 | 3.7 | 4.5 | 5.0 | 6-9 | 54.7 | 2 | 14.7 |
| CARGILL 9427 | 132 | 129 | 121 | 2.0 | 3.0 | 3.0 | 6-9 | 56.2 | 2 | 14.7 |
| ZIMMERMAN Z 27 | 131 | 137 | 135 | 1.3 | 0.5 | 0 | 6-11 | 56.4 | 2 | 14.7 |
| FUNK'S G-4666 | 130 | 140 | 129 | 1.7 | 0.5 | 0 | 6-11 | 59.4 | 2 | 14.7 |
| NEW NK PX 9581 | 129 | 138 | 135 | 2.7 | 2.5 | 2.0 | 6-7 | 55.4 | 3 | 14.7 |
| SUNBELT 1882 | 129 | 130 | 118 | 0.7 | 1.0 | 0 | 6-11 | 56.5 | 2 | 14.7 |
| JACQUES 8400 | 125 | 126 | 128 | 2.7 | 3.5 | 3.0 | 6-5 | 59.2 | 3 | 14.7 |
| AGRATECH GK 850 | 120 | 120 | 129 | 0.7 | 1.0 | 0 | 6-11 | 55.6 | 2 | 14.7 |
| PIONEER 3320 | 120 | 126 | 110 | 2.3 | 1.5 | 2.0 | 6-5 | 55.3 | 3 | 14.7 |
| GARST 8180 | - | 153 | 131 | - | 1.0 | 1.0 | 6-11 | 57.1 | 2 | 14.7 |
| MCCURDY 7777 | - | 145 | 145 | - | 2.5 | 0 | 6-7 | 57.0 | 2 | 14.7 |
| NEW NK MCNAIR 508 | - | 143 | 114 | - | 2.0 | 2.0 | 6-9 | 58.9 | 2 | 14.7 |
| GARST 8116 | - | 141 | 141 | - | 0.5 | 0 | 6-11 | 57.7 | 2 | 14.7 |
| AGRATECH GK 750 | - | 125 | 122 | - | 1.0 | 1.0 | 6-11 | 57.8 | 2 | 14.7 |
| FUNK'S G-4743 | - | 124 | 109 | - | 1.0 | 0 | 6-11 | 59.0 | 2 | 14.7 |
| SUNBELT 1876 | - | 120 | 94 | - | 7.5 | 12.0 | 6-16 | 57.6 | 3 | 14.7 |
| NC+ 7507 | - | - | 150 | - | - | 2.0 | 6-11 | 55.9 | 2 | 14.7 |
| TRIUMPH 2020 | - | - | 149 | - | - | 0 | 6-11 | 58.3 | 2 | 14.7 |
| FUNK'S RA 1502 | - | - | 148 | - | - | 0 | 6-9 | 57.4 | 3 | 14.7 |
| TRIUMPH 1650FG | - | - | 148 | - | - | 0 | 6-13 | 59.0 | 3 | 14.7 |
| MCCURDY 8181 | - | - | 144 | - | - | 0 | 6-21 | 58.4 | 2 | 14.7 |
| AGRIPRO EX 794 | - | - | 143 | - | - | 2.0 | 6-11 | 58.0 | 2 | 14.7 |
| TERRA TR 363E | - | - | 141 | - | - | 0 | 6-13 | 58.6 | 2 | 14.7 |
| NC+ 6414 | - | - | 138 | - | - | 2.0 | 6-11 | 56.6 | 3 | 14.7 |
| ZIMMERMAN Z 35 | - | - | 136 | - | - | 1.0 | 6-13 | 59.2 | 2 | 14.7 |
| PIONEER 3140 | - | - | 131 | - | - | 0 | 6-9 | 54.9 | 2 | 14.7 |

CONTINUED

TABLE 11. IRRIGATED CORN HYBRID PERFORMANCE AND CHARACTERISTICS, HEADLAND, ALABAMA, 1987-89*

CONTINUED

| BRAND NAME-HYBRID | YIELD PER ACRE, AV. | | | LODGED STALKS, AV. | | | 1989 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 3-YR. 1987-89 | 2-YR. 1988-89 | 1989 | 3-YR. 1987-89 | 2-YR. 1988-89 | 1989 | MIDSILK | TEST WEIGHT | HUSK** COVER | HARVEST MOISTURE |
| | BU. | BU. | BU. | PCT. | PCT. | PCT. | MO.-DA. | LB./BU. | RATING | PCT. |
| TERRA TR 364E | - | - | 127 | - | - | 0 | 6-13 | 58.2 | 2 | 14.7 |
| HYPERFORMER HS 97 | - | - | 127 | - | - | 1.0 | 6-11 | 56.8 | 1 | 14.7 |
| JACQUES 8210 | - | - | 126 | - | - | 1.0 | 6-9 | 57.5 | 2 | 14.7 |
| NEW NK S 8645 | - | - | 125 | - | - | 0 | 6-13 | 58.3 | 2 | 14.7 |
| SEEDTEC ST-7680 | - | - | 123 | - | - | 0 | 6-9 | 57.7 | 3 | 14.7 |
| JACQUES 8350 | - | - | 122 | - | - | 2.0 | 6-9 | 55.7 | 2 | 14.7 |
| TERRA TR 366E | - | - | 122 | - | - | 0 | 6-11 | 57.5 | 2 | 14.7 |
| SEEDTEC 7625 | - | - | 122 | - | - | 0 | 6-9 | 57.6 | 3 | 14.7 |
| FFR 747C | - | - | 119 | - | - | 4.0 | 6-11 | 58.9 | 2 | 14.7 |
| SUNBELT 7400 | - | - | 119 | - | - | 2.0 | 6-21 | 55.8 | 2 | 14.7 |
| CARGILL 8027 | - | - | 117 | - | - | 0 | 6-11 | 57.2 | 2 | 14.7 |
| ZIMMERMAN Z 38 | - | - | 115 | - | - | 2.0 | 6-9 | 57.3 | 2 | 14.7 |
| HYPERFORMER HS 56 | - | - | 114 | - | - | 0 | 6-21 | 57.2 | 2 | 14.7 |
| JACQUES 7820 | - | - | 110 | - | - | 3.0 | 6-11 | 57.9 | 2 | 14.7 |
| FFR 955 | - | - | 110 | - | - | 6.0 | 6-11 | 56.9 | 3 | 14.7 |
| JACQUES 9220 | - | - | 110 | - | - | 8.0 | 6-11 | 55.6 | 3 | 14.7 |
| TERRA TR 365E | - | - | 109 | - | - | 0 | 6-9 | 57.8 | 2 | 14.7 |
| HYPERFORMER HS 64 | - | - | 108 | - | - | 0 | 6-11 | 56.7 | 2 | 14.7 |
| ZIMMERMAN Z 33 | - | - | 105 | - | - | 0 | 6-11 | 57.7 | 2 | 14.7 |
| PIONEER 3187 | - | - | 102 | - | - | 1.0 | 6-9 | 56.4 | 2 | 14.7 |
| NC+ 5891 | - | - | 96 | - | - | 0 | 6-11 | 56.7 | 3 | 14.7 |
| FUNK'S G-4543 | - | - | 93 | - | - | 0 | 6-9 | 59.2 | 2 | 14.7 |
| FFR 811 | - | - | 93 | - | - | 0 | 6-9 | 55.9 | 3 | 14.7 |
| FFR 844C | - | - | 71 | - | - | 0 | 6-13 | 54.5 | 3 | 14.7 |
| TEST AVERAGE | | | 125.4 | | | | | | | |
| L.S.D. (.05) | | | 29.5 | | | | | | | |
| C.V. (%) | | | 16.9 | | | | | | | |

* THE TEST RECEIVED APPROXIMATELY 12.5 INCHES OF IRRIGATION WATER IN 10 APPLICATIONS DURING THE MONTHS OF MAY AND JUNE.

** 1= EXCELLENT; 5= VERY POOR.

TABLE 12. WHITE CORN HYBRID TEST, NORTHERN ALABAMA*, 1987-89

| BRAND NAME-HYBRID | YIELD PER ACRE, AV. | | | LODGED STALKS, AV. | | | 1989 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 3-YR. 1987-89 | 2-YR. 1988-89 | 1989 | 3-YR. 1987-89 | 2-YR. 1988-89 | 1989 | MIDSILK | TEST WEIGHT | HUSK*** COVER | HARVEST MOISTURE |
| | BU. | BU. | BU. | PCT. | PCT. | PCT. | MO./DA. | LB./BU. | RATING | PCT. |
| PIONEER 3165 ** | 120 | 113 | 171 | 1.3 | 1.0 | 1.0 | 7-2 | 56.4 | 2 | 16.3 |
| ZIMMERMAN Z 54 W | 116 | 111 | 168 | 3.0 | 3.5 | 5.0 | 6-30 | 55.7 | 2 | 16.4 |
| PIONEER 3144W | 113 | 108 | 167 | 1.3 | 1.5 | 2.0 | 7-1 | 55.3 | 3 | 16.3 |
| ZIMMERMAN Z 16 W | 113 | 106 | 152 | 3.0 | 3.5 | 2.0 | 6-29 | 57.0 | 2 | 16.7 |
| CARGILL 9400W | 109 | 101 | 153 | 3.3 | 4.0 | 5.0 | 7-2 | 58.5 | 2 | 16.5 |
| ZIMMERMAN Z 14 W | 109 | 104 | 154 | 3.3 | 4.0 | 3.0 | 7-1 | 56.9 | 1 | 16.4 |
| JACQUES W-210 | 107 | 100 | 148 | 2.7 | 3.5 | 4.0 | 7-2 | 56.9 | 2 | 16.2 |
| ZIMMERMAN Z 60 W | 105 | 99 | 151 | 3.3 | 3.0 | 4.0 | 7-1 | 55.4 | 1 | 16.2 |
| FFR 929W | 96 | 83 | 140 | 1.7 | 1.5 | 2.0 | 7-5 | 56.6 | 2 | 16.4 |
| ZIMMERMAN Z 17 W | - | 112 | 166 | - | 1.5 | 2.0 | 6-30 | 57.4 | 2 | 15.9 |
| AGRATECH 917 W | - | 106 | 166 | - | 2.5 | 4.0 | 7-2 | 55.5 | 1 | 16.6 |
| ASGROW/O'S GOLD RX 956W | - | 102 | 153 | - | 2.5 | 3.0 | 7-2 | 58.8 | 2 | 16.7 |
| FUNK'S 6043 W | - | 99 | 154 | - | 2.0 | 3.0 | 6-30 | 59.0 | 2 | 16.5 |
| DEKALB DK 703 W | - | 83 | 116 | - | 1.5 | 2.0 | 6-29 | 58.3 | 2 | 15.8 |
| DEKALB DK 689 ** | - | - | 172 | - | - | 0 | 6-30 | 56.3 | 2 | 15.8 |
| FUNK'S G-4644W | - | - | 166 | - | - | 4.0 | 7-1 | 59.6 | 2 | 16.5 |
| HYPERFORMER HS 175W | - | - | 164 | - | - | 3.0 | 7-2 | 55.9 | 2 | 16.3 |
| NEW NK N 8110 W | - | - | 160 | - | - | 1.0 | 6-30 | 58.2 | 2 | 16.5 |
| HYPERFORMER HS 180W | - | - | 150 | - | - | 4.0 | 7-1 | 56.5 | 2 | 16.3 |
| GARST 8211 W | - | - | 128 | - | - | 3.0 | 6-28 | 55.7 | 2 | 15.0 |
| TEST AVERAGE | | | 154.8 | | | | | | | |
| L.S.D. (.05) | | | 16.3 | | | | | | | |
| C.V. (%) | | | 7.4 | | | | | | | |

* CROSSVILLE.
** YELLOW CORN CHECK HYBRID.
*** 1= EXCELLENT; 5= VERY POOR.

TABLE 13. WHITE CORN HYBRID TEST, CENTRAL ALABAMA*, 1987-89

| BRAND NAME-HYBRID | YIELD PER ACRE, AV. | | | LODGED STALKS, AV. | | | 1989 | | |
|---|---|---|---|---|---|---|---|---|---|
| | 3-YR. 1987-89 | 2-YR. 1988-89 | 1989 | 3-YR. 1987-89 | 2-YR. 1988-89 | 1989 | MIDSILK | TEST WEIGHT | HARVEST MOISTURE |
| | BU. | BU. | BU. | PCT. | PCT. | PCT. | MO./DA. | LB./BU. | PCT. |
| PIONEER 3165 ** | 96 | 82 | 104 | 2.3 | 0 | 0 | 6-23 | 55.6 | 9.7 |
| ZIMMERMAN Z 54 W | 90 | 85 | 126 | 4.3 | 0.5 | 0 | 6-22 | 56.1 | 8.7 |
| ZIMMERMAN Z 60 W | 89 | 82 | 128 | 3.7 | 0.5 | 0 | 6-21 | 55.6 | 9.6 |
| PIONEER 3144W | 85 | 76 | 108 | 5.0 | 0 | 0 | 6-23 | 55.7 | 9.6 |
| ZIMMERMAN Z 16 W | 83 | 73 | 100 | 2.3 | 1.0 | 0 | 6-19 | 56.8 | 9.9 |
| ZIMMERMAN Z 14 W | 82 | 76 | 110 | 5.3 | 2.0 | 1.0 | 6-23 | 55.9 | 10.0 |
| FFR 929W | 77 | 73 | 112 | 5.7 | 0.5 | 0 | 6-24 | 57.4 | 10.4 |
| JACQUES W-210 | 77 | 69 | 110 | 3.0 | 0.5 | 0 | 6-24 | 57.8 | 9.6 |
| CARGILL 9400W | 68 | 55 | 92 | 2.3 | 0 | 0 | 6-21 | 57.7 | 9.8 |
| ZIMMERMAN Z 17 W | - | 79 | 118 | - | 1.5 | 1.0 | 6-23 | 56.9 | 9.9 |
| DEKALB DK 703 W | - | 68 | 98 | - | 1.0 | 0 | 6-22 | 57.7 | 10.1 |
| AGRATECH 917 W | - | 66 | 98 | - | 0.5 | 0 | 6-22 | 54.8 | 9.6 |
| ASGROW/D'S GOLD RX 956W | - | 65 | 119 | - | 0 | 0 | 6-24 | 58.2 | 10.0 |
| FUNK'S 6043 W | - | 60 | 101 | - | 0 | 0 | 6-23 | 57.9 | 9.9 |
| DEKALB DK 689 ** | - | - | 128 | - | - | 0 | 6-24 | 56.3 | 9.7 |
| HYPERFORMER HS 175W | - | - | 123 | - | - | 0 | 6-22 | 55.9 | 9.8 |
| CARST 8211 W | - | - | 119 | - | - | 1.0 | 6-19 | 55.6 | 9.5 |
| HYPERFORMER HS 180W | - | - | 117 | - | - | 0 | 6-21 | 55.8 | 9.8 |
| NEW NK N 8110 W | - | - | 89 | - | - | 0 | 6-23 | 56.6 | 9.7 |
| FUNK'S G-4644W | - | - | 74 | - | - | 0 | 6-24 | 57.6 | 9.7 |
| TEST AVERAGE | | | 108.6 | | | | | | |
| L.S.D. (.05) | | | 32.0 | | | | | | |
| C.V. (%) | | | 20.8 | | | | | | |

* SHORTER.
** YELLOW CORN CHECK HYBRID.

TABLE 14. WHITE CORN HYBRID TEST, SOUTHERN ALABAMA*, 1987-89

| BRAND NAME-HYBRID | YIELD PER ACRE, AV. | | | LODGED STALKS, AV. | | | 1989 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 3-YR. 1987-89 | 2-YR. 1988-89 | 1989 | 3-YR. 1987-89 | 2-YR. 1988-89 | 1989 | MIDSILK | TEST WEIGHT | HUSK*** COVER | HARVEST MOISTURE |
| | BU. | BU. | BU. | PCT. | PCT. | PCT. | MO./DA. | LB./BU. | RATING | PCT. |
| PIONEER 3165 ** | 140 | 135 | 117 | 1.3 | 1.5 | 3.0 | 6-22 | 56.5 | 2 | 14.7 |
| ZIMMERMAN Z 54 W | 139 | 132 | 126 | 1.7 | 0.5 | 0 | 6-11 | 56.2 | 2 | 14.7 |
| ZIMMERMAN Z 14 W | 138 | 141 | 132 | 1.7 | 2.0 | 0 | 6-11 | 56.9 | 2 | 14.7 |
| ZIMMERMAN Z 16 W | 138 | 135 | 138 | 1.7 | 2.0 | 3.0 | 6-15 | 57.9 | 2 | 14.7 |
| PIONEER 3144W | 137 | 134 | 141 | 1.0 | 1.5 | 2.0 | 6-17 | 55.7 | 3 | 14.7 |
| CARGILL 9400W | 126 | 124 | 116 | 0.7 | 0.5 | 0 | 6-13 | 59.1 | 2 | 14.7 |
| FFR 929W | 125 | 122 | 104 | 2.3 | 1.5 | 1.0 | 6-13 | 57.3 | 2 | 14.7 |
| JACQUES W-210 | 119 | 115 | 94 | 4.0 | 3.5 | 6.0 | 6-13 | 56.6 | 3 | 14.7 |
| ZIMMERMAN Z 60 W | 117 | 115 | 102 | 1.0 | 0.5 | 0 | 6-13 | 55.4 | 2 | 14.7 |
| ZIMMERMAN Z 17 W | - | 134 | 134 | - | 1.5 | 2.0 | 6-13 | 57.2 | 2 | 14.7 |
| AGRATECH 917 W | - | 130 | 123 | - | 2.0 | 0 | 6-13 | 56.0 | 2 | 14.7 |
| DEKALB DK 703 W | - | 129 | 105 | - | 0.5 | 0 | 6-13 | 56.9 | 2 | 14.7 |
| ASGROW/O'S GOLD RX 956W | - | 124 | 110 | - | 1.5 | 1.0 | 6-11 | 59.2 | 1 | 14.7 |
| FUNK'S 6043 W | - | 114 | 111 | - | 0.5 | 0 | 6-13 | 58.4 | 1 | 14.7 |
| DEKALB DK 689 ** | - | - | 135 | - | - | 2.0 | 6-13 | 55.7 | 3 | 14.7 |
| GARST 8211 W | - | - | 135 | - | - | 1.0 | 6-11 | 55.9 | 2 | 14.7 |
| FUNK'S G-4644W | - | - | 128 | - | - | 0 | 6-11 | 58.4 | 2 | 14.7 |
| HYPERFORMER HS 180W | - | - | 125 | - | - | 0 | 6-9 | 56.0 | 2 | 14.7 |
| HYPERFORMER HS 175W | - | - | 120 | - | - | 2.0 | 6-11 | 55.6 | 1 | 14.7 |
| NEW NK N 8110 W | - | - | 114 | - | - | 3.0 | 6-11 | 58.4 | 2 | 14.7 |
| TEST AVERAGE | | | 120.3 | | | | | | | |
| L.S.D. (.05) | | | 18.9 | | | | | | | |
| C.V. (%) | | | 11.1 | | | | | | | |

* HEADLAND. THE TEST RECEIVED APPROXIMATELY 12.5 INCHES OF IRRIGATION WATER IN 10 APPLICATIONS DURING THE MONTHS OF MAY AND JUNE.

** YELLOW CORN CHECK HYBRID.

*** 1= EXCELLENT; 5= VERY POOR.

TABLE 15. EARLY CORN HYBRID TEST, NORTHERN ALABAMA*, 1987-89

| BRAND NAME-HYBRID | YIELD PER ACRE, AV. | | | LODGED STALKS, AV. | | | 1989 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 3-YR. 1987-89 | 2-YR. 1988-89 | 1989 | 3-YR. 1987-89 | 2-YR. 1988-89 | 1989 | MIDSILK | TEST WEIGHT | HUSK** COVER | HARVEST MOISTURE |
| | BU. | BU. | BU. | PCT. | PCT. | PCT. | MO./DA. | LB./BU. | RATING | PCT. |
| MCCURDY 7800 | 127 | 117 | 165 | 1.0 | 1.5 | 2.0 | 6-30 | 58.7 | 2 | 21.3 |
| SUNBELT 5613 | 124 | 104 | 149 | 2.3 | 2.0 | 3.0 | 6-27 | 57.9 | 2 | 18.9 |
| SUNBELT 1827 | 121 | 102 | 153 | 1.0 | 1.0 | 2.0 | 6-30 | 59.0 | 2 | 19.9 |
| MCCURDY 7372 | 120 | 101 | 141 | 1.0 | 1.5 | 3.0 | 6-25 | 59.1 | 2 | 18.5 |
| SUNBELT 6225 | 118 | 102 | 169 | 1.7 | 1.5 | 3.0 | 6-30 | 56.3 | 2 | 22.8 |
| ZIMMERMAN Z 27 | 118 | 103 | 150 | 1.3 | 1.5 | 2.0 | 7-1 | 57.8 | 2 | 19.3 |
| SUNBELT 1802 | 116 | 100 | 144 | 1.0 | 1.0 | 2.0 | 6-27 | 58.6 | 2 | 19.9 |
| FUNK'S G-4543 | 116 | 99 | 150 | 0.7 | 0.5 | 1.0 | 6-26 | 59.3 | 2 | 19.5 |
| AGRATECH GK 750 | 115 | 97 | 142 | 0.3 | 0.5 | 1.0 | 6-24 | 58.5 | 2 | 18.8 |
| NEW NK PX 79 | 115 | 99 | 153 | 0.7 | 1.0 | 2.0 | 6-27 | 56.0 | 2 | 18.3 |
| ASGROW/D'S GOLD 2570 | 115 | 92 | 128 | 1.7 | 2.0 | 2.0 | 6-24 | 57.2 | 2 | 18.7 |
| JACQUES 7900 | 114 | 96 | 139 | 0.7 | 1.0 | 2.0 | 6-26 | 57.6 | 2 | 19.1 |
| CARST 8344 | 112 | 95 | 145 | 0.3 | 0.5 | 1.0 | 6-25 | 59.6 | 2 | 18.4 |
| NEW NK S 7751 | 112 | 95 | 138 | 0.7 | 1.0 | 2.0 | 6-27 | 57.8 | 2 | 19.3 |
| JACQUES 7820 | 109 | 91 | 124 | 1.3 | 1.5 | 3.0 | 6-24 | 59.0 | 2 | 18.4 |
| FFR 747C | 108 | 88 | 134 | 0.7 | 1.0 | 2.0 | 6-25 | 59.2 | 2 | 18.9 |
| AGRATECH 888 | - | 102 | 139 | - | 1.0 | 2.0 | 6-30 | 58.3 | 2 | 19.2 |
| FUNK'S RA 1502 | - | 101 | 146 | - | 1.0 | 2.0 | 6-26 | 57.4 | 2 | 19.8 |
| DELTAPINE 5750 | - | 99 | 137 | - | 1.5 | 3.0 | 6-27 | 58.2 | 2 | 20.1 |
| COKER 8625 | - | 97 | 149 | - | 0.5 | 1.0 | 6-26 | 59.8 | 2 | 18.4 |
| DEKALB DK 649 | - | 96 | 153 | - | 0 | 0 | 7-1 | 57.1 | 2 | 18.8 |
| HYPERFORMER HS 56 | - | 90 | 128 | - | 1.5 | 2.0 | 6-28 | 57.1 | 2 | 21.9 |
| PIONEER 3165 *** | - | - | 183 | - | - | 1.0 | 7-1 | 57.8 | 2 | 21.3 |
| PIONEER 3295 | - | - | 164 | - | - | 2.0 | 6-30 | 56.5 | 3 | 18.5 |
| DEKALB DK 689 *** | - | - | 162 | - | - | 2.0 | 6-30 | 56.8 | 2 | 19.8 |
| ZIMMERMAN Z 38 | - | - | 156 | - | - | 1.0 | 6-25 | 57.4 | 3 | 21.5 |
| AGRATECH GK 825 | - | - | 155 | - | - | 1.0 | 6-25 | 58.0 | 3 | 20.9 |
| FUNK'S G-4666 | - | - | 149 | - | - | 2.0 | 6-27 | 58.2 | 2 | 19.8 |
| ZIMMERMAN Z 33 | - | - | 144 | - | - | 1.0 | 6-30 | 57.5 | 2 | 22.1 |
| PIONEER 3343 | - | - | 143 | - | - | 1.0 | 6-28 | 56.3 | 2 | 18.6 |
| HYPERFORMER HS 64 | - | - | 142 | - | - | 1.0 | 6-27 | 57.3 | 2 | 22.9 |
| FFR 811 | - | - | 137 | - | - | 2.0 | 6-25 | 57.3 | 2 | 19.3 |
| FFR 844C | - | - | 137 | - | - | 2.0 | 7-3 | 55.5 | 2 | 22.0 |
| HYPERFORMER HS 82 | - | - | 122 | - | - | 1.0 | 6-27 | 56.5 | 2 | 18.9 |
| HYPERFORMER HS 97 | - | - | 116 | - | - | 0 | 7-3 | 56.8 | 2 | 20.6 |
| TEST AVERAGE | | | 145.2 | | | | | | | |
| L.S.D. (.05) | | | 17.3 | | | | | | | |
| C.V. (%) | | | 8.5 | | | | | | | |

* CROSSVILLE.
** 1= EXCELLENT; 5= VERY POOR.
*** STANDARD MID TO LATE SEASON HYBRIDS.

TABLE 16. EARLY CORN HYBRID TEST, CENTRAL ALABAMA*, 1987-89

| BRAND NAME-HYBRID | YIELD PER ACRE, AV. | | | LODGED STALKS, AV. | | | 1989 | | |
|---|---|---|---|---|---|---|---|---|---|
| | 3-YR. 1987-89 | 2-YR. 1988-89 | 1989 | 3-YR. 1987-89 | 2-YR. 1988-89 | 1989 | MIDSILK | TEST WEIGHT | HARVEST MOISTURE |
| | BU. | BU. | BU. | PCT. | PCT. | PCT. | MO./DA. | LB./BU. | PCT. |
| ZIMMERMAN Z 27 | 111 | 112 | 170 | 2.0 | 0 | 0 | 6-21 | 57.4 | 7.0 |
| ASGROW/O'S GOLD 2570 | 108 | 101 | 157 | 4.7 | 1.5 | 1.0 | 6-18 | 56.8 | 9.1 |
| SUNBELT 6225 | 107 | 100 | 158 | 2.7 | 0 | 0 | 6-20 | 57.5 | 9.5 |
| SUNBELT 1802 | 105 | 95 | 145 | 5.3 | 1.5 | 1.0 | 6-17 | 58.4 | 9.3 |
| SUNBELT 5613 | 105 | 93 | 140 | 3.3 | 1.0 | 1.0 | 6-18 | 56.6 | 9.6 |
| SUNBELT 1827 | 104 | 98 | 158 | 5.0 | 1.0 | 1.0 | 6-19 | 57.6 | 9.2 |
| MCCURDY 7800 | 102 | 99 | 144 | 6.3 | 1.0 | 0 | 6-19 | 59.0 | 8.8 |
| AGRATECH GK 750 | 101 | 96 | 147 | 2.7 | 0 | 0 | 6-18 | 58.2 | 9.1 |
| FFR 747C | 101 | 96 | 149 | 4.0 | 1.0 | 1.0 | 6-19 | 58.0 | 9.5 |
| NEW NK S 7751 | 100 | 92 | 139 | 4.7 | 0 | 0 | 6-18 | 58.4 | 8.9 |
| GARST 8344 | 98 | 94 | 141 | 4.7 | 0.5 | 1.0 | 6-17 | 58.9 | 9.2 |
| FUNK'S G-4543 | 97 | 94 | 137 | 2.7 | 0 | 0 | 6-18 | 59.6 | 9.5 |
| JACQUES 7820 | 97 | 88 | 131 | 5.3 | 0.5 | 1.0 | 6-17 | 59.0 | 9.1 |
| MCCURDY 7372 | 92 | 85 | 124 | 7.7 | 2.0 | 3.0 | 6-18 | 59.2 | 9.4 |
| JACQUES 7900 | 91 | 79 | 112 | 6.3 | 2.0 | 2.0 | 6-18 | 56.9 | 8.3 |
| NEW NK PX 79 | 85 | 88 | 126 | 4.0 | 1.0 | 1.0 | 6-19 | 56.2 | 9.1 |
| AGRATECH 888 | - | 104 | 154 | - | 0.5 | 1.0 | 6-20 | 57.4 | 9.2 |
| DELTAPINE 5750 | - | 102 | 163 | - | 0.5 | 1.0 | 6-19 | 57.3 | 9.2 |
| DEKALB DK 649 | - | 97 | 156 | - | 0.5 | 1.0 | 6-20 | 55.9 | 8.7 |
| FUNK'S RA 1502 | - | 92 | 148 | - | 2.0 | 1.0 | 6-19 | 57.1 | 9.3 |
| COKER 8625 | - | 91 | 127 | - | 0.5 | 0 | 6-18 | 58.5 | 9.4 |
| HYPERFORMER HS 56 | - | 88 | 127 | - | 1.5 | 1.0 | 6-17 | 57.7 | 9.4 |
| PIONEER 3165 ** | - | - | 170 | - | - | 1.0 | 6-22 | 57.5 | 9.2 |
| FUNK'S G-4666 | - | - | 162 | - | - | 1.0 | 6-19 | 57.8 | 9.4 |
| DEKALB DK 689 ** | - | - | 155 | - | - | 1.0 | 6-22 | 56.9 | 9.1 |
| AGRATECH GK 825 | - | - | 143 | - | - | 0 | 6-17 | 58.0 | 9.2 |
| PIONEER 3295 | - | - | 138 | - | - | 0 | 6-19 | 57.3 | 9.1 |
| ZIMMERMAN Z 38 | - | - | 137 | - | - | 1.0 | 6-18 | 56.2 | 9.0 |
| FFR 811 | - | - | 136 | - | - | 0 | 6-19 | 55.4 | 8.8 |
| HYPERFORMER HS 64 | - | - | 135 | - | - | 2.0 | 6-19 | 57.7 | 9.3 |
| HYPERFORMER HS 82 | - | - | 130 | - | - | 0 | 6-18 | 56.0 | 8.7 |
| HYPERFORMER HS 97 | - | - | 129 | - | - | 0 | 6-23 | 56.8 | 9.5 |
| FFR 844C | - | - | 127 | - | - | 0 | 6-23 | 55.0 | 8.5 |
| ZIMMERMAN Z 33 | - | - | 122 | - | - | 1.0 | 6-18 | 57.6 | 9.2 |
| PIONEER 3343 | - | - | 122 | - | - | 1.0 | 6-19 | 56.1 | 8.6 |
| TEST AVERAGE | | | 141.5 | | | | | | |
| L.S.D. (.05) | | | 22.7 | | | | | | |
| C.V. (%) | | | 11.4 | | | | | | |

* SHORTER.
** STANDARD MID TO LATE SEASON HYBRIDS.

TABLE 17. EARLY CORN HYBRID TEST, SOUTHERN ALABAMA*, 1986-87 & 1989

| BRAND NAME-HYBRID | YIELD PER ACRE, AV. | | | LODGED STALKS, AV. | | | 1989 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 3-YR. 1986-87&89 | 2-YR. 1987&89 | 1989 | 3-YR. 1986-87&89 | 2-YR. 1987&89 | 1989 | MIDSILK | TEST WEIGHT | HUSK** COVER | HARVEST MOISTURE |
| | BU. | BU. | BU. | PCT. | PCT. | PCT. | MO./DA. | LB./BU. | RATING | PCT. |
| ZIMMERMAN Z 27 | 132 | 127 | 148 | 4.7 | 6.5 | 13.0 | 5 -21 | 58.4 | 3 | 15.3 |
| MCCURDY 7800 | 130 | 121 | 135 | 6.7 | 9.5 | 19.0 | 5 -22 | 59.4 | 4 | 16.0 |
| NEW NK S 7751 | 128 | 124 | 135 | 2.0 | 2.5 | 5.0 | 5 -18 | 58.1 | 2 | 15.6 |
| NEW NK PX 79 | 128 | 127 | 148 | 1.0 | 1.5 | 3.0 | 5 -19 | 58.1 | 3 | 15.3 |
| JACQUES 7900 | 125 | 123 | 148 | 4.0 | 5.5 | 11.0 | 5 -19 | 58.3 | 3 | 15.5 |
| ASGROW/O'S GOLD 2570 | 125 | 123 | 145 | 7.3 | 7.5 | 15.0 | 5 -19 | 58.1 | 1 | 15.8 |
| JACQUES 7820 | 124 | 119 | 135 | 3.0 | 4.5 | 9.0 | 5 -18 | 58.8 | 2 | 15.4 |
| AGRATECH GK 750 | 122 | 118 | 124 | 1.7 | 2.5 | 5.0 | 5 -19 | 57.4 | 2 | 15.4 |
| FFR 747C | 121 | 117 | 129 | 2.0 | 3.0 | 6.0 | 5 -19 | 58.7 | 2 | 15.6 |
| MCCURDY 7372 | 116 | 107 | 110 | 3.7 | 5.5 | 11.0 | 5 -19 | 58.1 | 3 | 15.9 |
| SUNBELT 6225 | - | 139 | 166 | - | 3.5 | 7.0 | 5 -23 | 58.6 | 2 | 16.1 |
| SUNBELT 1827 | - | 129 | 152 | - | 2.0 | 4.0 | 5 -21 | 59.7 | 2 | 15.6 |
| SUNBELT 5613 | - | 126 | 141 | - | 3.0 | 6.0 | 5 -19 | 57.9 | 2 | 15.6 |
| GARST 8344 | - | 124 | 134 | - | 4.0 | 8.0 | 5 -20 | 58.0 | 1 | 15.6 |
| FUNK'S G-4543 | - | 123 | 138 | - | 2.0 | 4.0 | 5 -20 | 58.6 | 1 | 15.2 |
| SUNBELT 1802 | - | 120 | 137 | - | 3.5 | 7.0 | 5 -21 | 59.2 | 2 | 15.5 |
| AGRATECH 888 | - | - | 157 | - | - | 2.0 | 5 -22 | 60.2 | 1 | 15.3 |
| DEKALB DK 689 *** | - | - | 153 | - | - | 16.0 | 5 -25 | 58.4 | 2 | 15.6 |
| DELTAPINE 5750 | - | - | 150 | - | - | 8.0 | 5 -22 | 58.9 | 1 | 15.3 |
| PIONEER 3343 | - | - | 149 | - | - | 2.0 | 5 -18 | 56.9 | 3 | 15.1 |
| ZIMMERMAN Z 38 | - | - | 147 | - | - | 3.0 | 5 -19 | 58.8 | 3 | 15.6 |
| FUNK'S RA 1502 | - | - | 145 | - | - | 16.0 | 5 -21 | 59.1 | 2 | 16.0 |
| HYPERFORMER HS 97 | - | - | 144 | - | - | 12.0 | 5 -23 | 59.4 | 2 | 15.7 |
| PIONEER 3165 *** | - | - | 140 | - | - | 21.0 | 5 -24 | 58.5 | 3 | 15.9 |
| ZIMMERMAN Z 33 | - | - | 137 | - | - | 9.0 | 5 -19 | 58.2 | 2 | 15.9 |
| COKER 8625 | - | - | 137 | - | - | 8.0 | 5 -19 | 59.9 | 2 | 15.5 |
| HYPERFORMER HS 64 | - | - | 136 | - | - | 3.0 | 5 -21 | 58.7 | 2 | 15.4 |
| AGRATECH GK 825 | - | - | 132 | - | - | 9.0 | 5 -19 | 59.9 | 2 | 15.3 |
| FUNK'S G-4666 | - | - | 131 | - | - | 8.0 | 5 -23 | 59.1 | 2 | 15.8 |
| DEKALB DK 649 | - | - | 131 | - | - | 6.0 | 5 -23 | 57.3 | 3 | 15.5 |
| FFR 844C | - | - | 128 | - | - | 10.0 | 5 -26 | 56.8 | 3 | 15.9 |
| HYPERFORMER HS 82 | - | - | 126 | - | - | 7.0 | 5 -21 | 57.2 | 2 | 15.7 |
| PIONEER 3295 | - | - | 119 | - | - | 16.0 | 5 -22 | 53.8 | 3 | 15.5 |
| HYPERFORMER HS 56 | - | - | 113 | - | - | 16.0 | 5 -19 | 58.3 | 1 | 15.7 |
| FFR 811 | - | - | 96 | - | - | 14.0 | 5 -19 | 56.0 | 4 | 15.9 |
| TEST AVERAGE | | | 136.9 | | | | | | | |
| L.S.D. (.05) | | | 26.1 | | | | | | | |
| C.V. (%) | | | 13.6 | | | | | | | |

* FAIRHOPE.
** 1= EXCELLENT; 5= VERY POOR.
*** STANDARD MID TO LATE SEASON HYBRIDS.

REPORT OF PRELIMINARY TESTS

TABLE 18. CHARACTERISTICS OF CORN HYBRIDS TESTED ONE YEAR AT CROSSVILLE IN NORTHERN ALABAMA, 1989

| BRAND NAME-HYBRID | AV. YIELD PER ACRE | LODGED STALKS | HUSK* COVER | MIDSILK | TEST WEIGHT | HARVEST MOISTURE |
|---|---|---|---|---|---|---|
| | BU. | PCT. | RATING | MO.-DA. | LB./BU. | PCT. |
| FUNK'S 8018 X | 193 | 2.0 | 2 | 7-6 | 50.2 | 19.0 |
| ASGROW/O'S GOLD XP 9877 | 190 | 1.0 | 2 | 7-4 | 57.5 | 17.2 |
| PIONEER 3170 | 179 | 5.0 | 2 | 6-28 | 56.0 | 15.7 |
| AGRIPRO EX 6808 | 177 | 3.0 | 2 | 7-3 | 56.3 | 16.3 |
| SUNBELT 1805 | 175 | 4.0 | 2 | 7-1 | 53.9 | 16.7 |
| PIONEER 3165 ** | 174 | 2.0 | 2 | 7-3 | 66.2 | 17.2 |
| MCCURDY 8165 | 174 | 2.0 | 2 | 7-4 | 58.5 | 17.1 |
| JACQUES 8510 | 172 | 3.0 | 2 | 6-29 | 57.9 | 16.3 |
| FFR 16847 | 172 | 2.0 | 2 | 6-30 | 58.2 | 16.9 |
| JACQUES EXP 7127 | 171 | 3.0 | 2 | 7-3 | 58.2 | 16.6 |
| SUNBELT 7400 | 170 | 2.0 | 2 | 7-6 | 54.2 | 18.6 |
| PIONEER 3180 | 169 | 2.0 | 2 | 6-27 | 54.9 | 15.9 |
| DEKALB DK 689 ** | 168 | 1.0 | 2 | 7-2 | 57.1 | 16.0 |
| MCCURDY 88-75 | 168 | 1.0 | 2 | 6-30 | 59.1 | 16.9 |
| TORO BONITO | 166 | 0 | 2 | 6-30 | 56.8 | 16.8 |
| CARGILL 132869 | 160 | 3.0 | 3 | 6-28 | 56.3 | 16.3 |
| DEKALB DK 677 | 159 | 3.0 | 2 | 7-1 | 58.7 | 16.5 |
| AGRATECH 8910 | 158 | 2.0 | 2 | 7-3 | 58.0 | 17.5 |
| FUNK'S 4665 | 157 | 3.0 | 3 | 6-28 | 60.3 | 16.4 |
| FFR 907 | 157 | 1.0 | 2 | 6-30 | 57.5 | 16.5 |
| FFR EXP 17411 | 156 | 6.0 | 1 | 6-28 | 57.4 | 17.5 |
| AGRIPRO AP 798 | 156 | 2.0 | 2 | 6-28 | 57.7 | 16.7 |
| GARST 8315 | 154 | 3.0 | 2 | 7-3 | 58.7 | 15.8 |
| FUNK'S 6096X | 154 | 1.0 | 2 | 6-29 | 55.4 | 16.6 |
| AGRIPRO AP 795 | 152 | 1.0 | 2 | 6-29 | 57.9 | 15.8 |
| HYPERFORMER HS 88 | 151 | 3.0 | 2 | 6-30 | 59.5 | 16.7 |
| FFR 847 | 150 | 1.0 | 3 | 6-28 | 57.7 | 16.5 |
| JACQUES 7910 | 148 | 3.0 | 2 | 6-28 | 57.4 | 15.7 |
| HYPERFORMER HS 889 | 148 | 4.0 | 1 | 7-1 | 57.4 | 16.6 |
| FFR 19418 | 146 | 4.0 | 1 | 6-30 | 59.2 | 16.0 |
| FFR 807C | 144 | 2.0 | 2 | 6-30 | 57.7 | 16.3 |
| CARGILL 8527 | 143 | 3.0 | 1 | 6-30 | 58.8 | 16.3 |
| GARST 8388 | 138 | 2.0 | 1 | 6-29 | 59.1 | 15.3 |
| CARGILL 7993 | 138 | 3.0 | 1 | 6-29 | 58.5 | 15.4 |
| FUNK'S 5071X | 136 | 2.0 | 2 | 6-29 | 58.0 | 15.4 |
| HYPERFORMER HS 82 | 136 | 2.0 | 2 | 6-30 | 57.4 | 15.9 |
| ASGROW/O'S GOLD XP 9118 | 134 | 4.0 | 2 | 6-29 | 58.3 | 16.2 |
| HYPERFORMER HS 879 | 130 | 4.0 | 2 | 6-30 | 57.9 | 17.1 |
| ZIMMERMAN Z 20 | 127 | 1.0 | 2 | 6-30 | 56.8 | 15.3 |
| TEST AVERAGE | 157.5 | | | | | |
| L.S.D. (.05) | 16.4 | | | | | |
| C.V. (%) | 7.4 | | | | | |

* 1= EXCELLENT; 5= VERY POOR.

** STANDARD HYBRIDS FOR COMPARISON.

REPORT OF PRELIMINARY TESTS

TABLE 19. CHARACTERISTICS OF CORN HYBRIDS TESTED ONE YEAR AT TALLASSEE IN CENTRAL ALABAMA, 1989

| BRAND NAME-HYBRID | AV. YIELD PER ACRE | LODGED STALKS | HUSK* COVER | MIDSILK | TEST WEIGHT | HARVEST MOISTURE |
|---|---|---|---|---|---|---|
| | BU. | PCT. | RATING | MO.-DA. | LB./BU. | PCT. |
| JACQUES EXP 7127 | 149 | 0 | 3 | 6-28 | 58.5 | 17.1 |
| MCCURDY 8165 | 145 | 0 | 3 | 6-30 | 58.2 | 17.2 |
| ASGROW/O'S GOLD XP 9118 | 143 | 0 | 2 | 6-26 | 59.5 | 15.5 |
| AGRIPRO EX 6808 | 143 | 0 | 3 | 6-29 | 56.0 | 16.2 |
| DEKALB DK 689 ** | 142 | 0 | 3 | 6-30 | 56.7 | 15.4 |
| ASGROW/O'S GOLD XP 9877 | 139 | 1.0 | 2 | 6-28 | 57.5 | 17.4 |
| PIONEER 3165 ** | 137 | 0 | 3 | 6-30 | 57.0 | 17.1 |
| SUNBELT 7400 | 137 | 0 | 2 | 7-1 | 55.1 | 17.8 |
| FFR EXP 17411 | 134 | 0 | 3 | 6-27 | 58.3 | 16.9 |
| MCCURDY 88-75 | 132 | 0 | 2 | 6-28 | 59.7 | 17.1 |
| HYPERFORMER HS 889 | 130 | 0 | 2 | 6-27 | 57.7 | 16.1 |
| PIONEER 3170 | 129 | 0 | 3 | 6-27 | 55.4 | 14.6 |
| FFR 847 | 127 | 0 | 3 | 6-26 | 59.0 | 15.9 |
| DEKALB DK 677 | 126 | 0 | 3 | 6-27 | 58.8 | 16.0 |
| CARGILL 132869 | 126 | 0 | 3 | 6-27 | 57.3 | 15.8 |
| HYPERFORMER HS 88 | 123 | 0 | 3 | 6-27 | 59.2 | 16.1 |
| ZIMMERMAN Z 20 | 123 | 0 | 3 | 6-28 | 56.9 | 14.5 |
| GARST 8315 | 123 | 0 | 3 | 6-29 | 57.0 | 14.7 |
| CARGILL 8527 | 121 | 0 | 3 | 6-27 | 58.5 | 15.5 |
| FFR 19418 | 121 | 0 | 2 | 6-27 | 59.4 | 15.0 |
| GARST 8388 | 121 | 0 | 2 | 6-27 | 59.2 | 14.7 |
| FUNK'S 4665 | 120 | 0 | 3 | 6-27 | 60.2 | 15.3 |
| HYPERFORMER HS 879 | 120 | 0 | 2 | 6-27 | 58.7 | 15.9 |
| FUNK'S 8018 X | 119 | 0 | 3 | 7-1 | 55.1 | 17.7 |
| AGRIPRO AP 798 | 116 | 0 | 3 | 6-26 | 57.9 | 15.9 |
| CARGILL 7993 | 116 | 0 | 2 | 6-27 | 58.5 | 14.8 |
| FUNK'S 5071X | 116 | 0 | 3 | 6-27 | 57.8 | 14.4 |
| FUNK'S 6096X | 115 | 0 | 3 | 6-27 | 56.4 | 15.5 |
| JACQUES 7910 | 113 | 0 | 2 | 6-26 | 58.3 | 14.6 |
| PIONEER 3180 | 111 | 1.0 | 3 | 6-27 | 55.8 | 15.0 |
| AGRIPRO AP 795 | 110 | 0 | 3 | 6-27 | 57.1 | 14.6 |
| TORO BONITO | 108 | 0 | 3 | 6-27 | 56.6 | 14.8 |
| AGRATECH 8910 | 107 | 1.0 | 2 | 6-30 | 58.0 | 16.2 |
| FFR 807C | 107 | 0 | 3 | 6-26 | 57.3 | 14.5 |
| HYPERFORMER HS 82 | 101 | 0 | 2 | 6-27 | 55.0 | 14.6 |
| FFR 907 | 100 | 0 | 2 | 6-27 | 56.6 | 15.7 |
| FFR 16847 | 100 | 0 | 3 | 6-27 | 56.5 | 15.4 |
| JACQUES 8510 | 99 | 0 | 3 | 6-27 | 56.7 | 14.7 |
| SUNBELT 1805 | 93 | 0 | 3 | 6-30 | 53.7 | 15.2 |
| TEST AVERAGE | 121.5 | | | | | |
| L.S.D. (.05) | 32.5 | | | | | |
| C.V. (%) | 19.1 | | | | | |

* 1= EXCELLENT; 5= VERY POOR.

** STANDARD HYBRIDS FOR COMPARISON.

REPORT OF PRELIMINARY TESTS

TABLE 20. CHARACTERISTICS OF CORN HYBRIDS TESTED ONE YEAR AT FAIRHOPE IN SOUTHERN ALABAMA, 1989

| BRAND NAME-HYBRID | AV. YIELD PER ACRE | LODGED STALKS | HUSK* COVER | MIDSILK | TEST WEIGHT | HARVEST MOISTURE |
|---|---|---|---|---|---|---|
| | BU. | PCT. | RATING | MO.-DA. | LB./BU. | PCT. |
| CARGILL 8315 | 131 | 2.0 | 2 | 6-4 | 56.9 | 16.1 |
| DEKALB DK 689 ** | 128 | 1.0 | 1 | 6-5 | 57.1 | 16.5 |
| TORO BONITO | 126 | 2.0 | 3 | 6-1 | 56.5 | 16.5 |
| PIONEER 3180 | 125 | 4.0 | 2 | 6-3 | 55.8 | 16.5 |
| FFR 16847 | 122 | 4.0 | 3 | 6-1 | 57.5 | 16.4 |
| AGRIPRO EX 6808 | 122 | 7.0 | 3 | 6-5 | 56.4 | 16.8 |
| FUNK'S 4665 | 121 | 2.0 | 2 | 5-31 | 58.4 | 16.0 |
| CARGILL 8527 | 121 | 3.0 | 1 | 6-3 | 57.8 | 16.7 |
| MCCURDY 88-75 | 120 | 1.0 | 1 | 6-4 | 58.1 | 16.9 |
| SUNBELT 7400 | 120 | 4.0 | 1 | 6-8 | 56.6 | 17.0 |
| FFR EXP 17411 | 119 | 10.0 | 2 | 6-3 | 57.3 | 16.5 |
| DEKALB DK 677 | 117 | 6.0 | 2 | 6-2 | 57.3 | 16.1 |
| FUNK'S 5071X | 116 | 5.0 | 2 | 5-31 | 56.3 | 16.5 |
| JACQUES EXP 7127 | 116 | 4.0 | 1 | 6-5 | 57.2 | 16.8 |
| MCCURDY 8165 | 116 | 4.0 | 2 | 6-5 | 58.7 | 17.1 |
| CARGILL 8388 | 116 | 2.0 | 2 | 5-31 | 58.4 | 16.6 |
| PIONEER 3165 ** | 115 | 7.0 | 1 | 6-5 | 55.9 | 17.0 |
| JACQUES 8510 | 113 | 1.0 | 2 | 5-31 | 57.4 | 16.4 |
| ASGROW/D'S GOLD XP 9118 | 113 | 1.0 | 1 | 6-3 | 58.2 | 16.7 |
| FUNK'S 6096X | 113 | 2.0 | 2 | 6-4 | 56.8 | 16.3 |
| HYPERFORMER HS 88 | 111 | 9.0 | 3 | 6-3 | 58.3 | 16.5 |
| JACQUES 7910 | 111 | 5.0 | 1 | 5-31 | 57.5 | 16.5 |
| HYPERFORMER HS 82 | 110 | 3.0 | 1 | 6-1 | 56.5 | 16.6 |
| FFR 19418 | 110 | 4.0 | 2 | 6-3 | 58.4 | 15.9 |
| CARGILL 132869 | 107 | 18.0 | 2 | 6-2 | 56.7 | 16.0 |
| AGRIPRO AP 798 | 106 | 3.0 | 2 | 6-1 | 57.1 | 16.2 |
| AGRIPRO AP 795 | 106 | 4.0 | 3 | 5-31 | 56.5 | 16.7 |
| FFR 907 | 105 | 5.0 | 2 | 6-2 | 57.5 | 16.5 |
| FFR 807C | 105 | 1.0 | 2 | 5-30 | 57.2 | 16.1 |
| CARGILL 7993 | 104 | 4.0 | 1 | 5-31 | 57.3 | 16.1 |
| SUNBELT 1805 | 101 | 7.0 | 2 | 6-4 | 54.5 | 16.4 |
| FUNK'S 8018 X | 101 | 13.0 | 2 | 6-6 | 57.4 | 17.1 |
| FFR 847 | 95 | 3.0 | 2 | 5-31 | 56.7 | 16.5 |
| HYPERFORMER HS 879 | 90 | 13.0 | 1 | 5-31 | 57.9 | 16.3 |
| ZIMMERMAN Z 20 | 88 | 6.0 | 3 | 6-2 | 57.0 | 16.6 |
| HYPERFORMER HS 889 | 87 | 3.0 | 2 | 6-4 | 57.1 | 17.0 |
| PIONEER 3170 | 85 | 14.0 | 3 | 6-3 | 55.2 | 16.3 |
| AGRATECH 8910 | 80 | 12.0 | 1 | 6-3 | 57.5 | 16.3 |
| ASGROW/D'S GOLD XP 9877 | 80 | 16.0 | 1 | 6-4 | 56.6 | 16.6 |
| TEST AVERAGE | 109.4 | | | | | |
| L.S.D. (.05) | 24.6 | | | | | |
| C.V. (%) | 16.1 | | | | | |

* 1= EXCELLENT, 5= VERY POOR.

** STANDARD HYBRIDS FOR COMPARISON.

Table 21. Growing Season Rainfall, 1989

| Test location | Monthly rainfall | | | | | | | 7 months total |
|---|---|---|---|---|---|---|---|---|
| | Mar. | Apr. | May | June | July | Aug. | Sept. | |
| | inches | | | | | | | |
| Belle Mina | 5.6 | 3.2 | 3.9 | 13.5 | 5.1 | 2.8 | 3.8 | 37.9 |
| Crossville | 5.8 | 3.3 | 3.4 | 8.3 | 9.1 | 1.8 | 8.9 | 40.6 |
| Winfield | 5.0 | 3.8 | 4.5 | 8.3 | 7.3 | 3.3 | 5.7 | 37.9 |
| Tallassee | 7.3 | 7.3 | 5.3 | 13.7 | 7.5 | 1.7 | 3.3 | 46.1 |
| Shorter | 9.5 | 7.0 | 3.5 | 14.4 | 9.0 | 1.9 | 5.8 | 51.1 |
| Prattville | 7.1 | 6.0 | 3.2 | 10.7 | 8.1 | 1.0 | 2.0 | 38.1 |
| Marion Junction | 7.3 | 5.5 | 1.9 | 9.3 | 5.7 | 1.3 | 1.5 | 32.5 |
| Camden | 6.3 | 4.2 | 2.1 | 10.3 | 7.4 | 1.9 | 3.7 | 35.9 |
| Monroeville | 7.0 | 8.2 | 3.6 | 13.4 | 7.3 | 1.7 | 4.5 | 45.7 |
| Brewton | 8.3 | 4.6 | 8.0 | 11.3 | 4.8 | 2.1 | 4.4 | 43.5 |
| Fairhope | 4.3 | 2.9 | 7.0 | 18.5 | 8.9 | 2.2 | 0.8 | 44.6 |
| Headland | 5.2 | 3.0 | 5.6 | 11.6 | 7.2 | 1.9 | 5.1 | 39.6 |

## SOURCES OF 1989 CORN HYBRID TEST SEED

| Seed Company | Brand |
|---|---|
| AgraTech Seed, Inc.<br>Rt. 1, Box 76A<br>McCordsville, IN 46055 | AgraTech |
| AgriPro Seed Co.<br>P.O. Box 7<br>Mitchell, IN 47446 | AgriPro<br>AP |
| Alabama Farmers Cooperative, Inc.<br>P.O. Box 2227<br>Decatur, AL 35602 | FFR |
| Asgrow Seed Co.<br>P.O. Box 109<br>Matthews, MO 63867 | Asgrow/<br>O's Gold |
| Big Crop Seed Co.<br>P.O. Box 5866<br>Lubbock, TX 79147 | Toro |
| Cargill Hybrid Seeds<br>Box 5645<br>Minneapolis, MN 55440 | Cargill |
| Dekalb-Pfizer Genetics<br>3100 Sycamore Road<br>Dekalb, IL 60115 | Dekalb |
| Delta and Pine Land Co.<br>P.O. Box 157<br>Scott, MS 38772 | Deltapine<br>Funk's |
| FFR Cooperative<br>4112 E. State Road 225<br>W. Lafayette, IN 47906 | FFR |
| Garst Seed Company<br>Rt. 1, Box 95<br>Jonesburg, MO 63351 | Garst |
| HyPerformer Seed Co.<br>5100 Poplar Ave.<br>Memphis, TN 38103 | HyPerformer |
| Jacques Seed Co.<br>Prescott, WI 54021 | Jacques |
| McCurdy Seed Co.<br>East Main Street<br>Fremont, IA 52561 | McCurdy |
| NC + Hybrid<br>Rt. 2, Box 190<br>Hastings, NE 68901 | NC + |
| The New Northrup King<br>P.O. Box 729<br>Bay, AR 72411 | New NK<br>Coker<br>McNair |
| Pioneer Hi-Bred Int.<br>1000 W. Jefferson St.<br>Tipton, IN 46072 | Pioneer |
| SeedTec International, Inc.<br>P.O. Box 110<br>Carrollton, IL 62016 | SeedTec |
| Sunbelt Hybrids<br>Box 406<br>Thomasville, GA 31799 | Sunbelt |
| Terra International, Inc.<br>Rt. 2, Box 39<br>Atlanta, IN 46031 | Terra |
| Triumph Seed Co., Inc<br>P.O. Box 1050<br>Ralls, TX 79357 | Triumph |
| Zimmerman Hybrids, Inc.<br>5147 W. Franklin Rd.<br>Evansville, IN 47712 | Zimmerman |

## ACCEPTABLE HYBRIDS FOR 1990

All of the acceptable hybrids are not equal in performance. It is suggested that this report be carefully studied before choosing a hybrid. For relative maturity information, use the days to midsilk data in preceding tables. Unless otherwise noted, all acceptable hybrids have been tested at least 3 years in the tests and are listed in descending order of 3-year average yield.

### NORTHERN ALABAMA

| Yellow hybrids | | White hybrids | | Early hybrids | |
|---|---|---|---|---|---|
| Brand name | Hybrid | Brand name | Hybrid | Brand name | Hybrid |
| Pioneer | 3165 | Zimmerman | Z 54 W | McCurdy | 7800 |
| Dekalb | DK 698 | Pioneer | 3144 W | Sunbelt | 5613 |
| Dekalb | DK 711 | Zimmerman | Z 16 W | Sunbelt | 1827 |
| AgraTech | GK 900 | Cargill | 9400 W | McCurdy | 7372 |
| Pioneer | 3320 | Zimmerman | Z 14 W | Sunbelt | 6225 |
| New NK | PX 95 | *Jacques | W-210 | Zimmerman | Z 27 |
| Zimmerman | Z 27 | *Zimmerman | Z 60 W | *AgraTech | GK 750 |
| Dekalb | DK 789 | **Zimmerman | Z 17 W | *New NK | PX 79 |
| Funk's | G-4666 | | | *Asgrow/O's Gold | 2570 |
| Jacques | 8400 | | | *Jacques | 7900 |
| *Asgrow/O's Gold | 2570 | | | | |
| *AgraTech | GK 850 | | | | |
| *Pioneer | 3147 | | | | |
| **McCurdy | 7777 | | | | |
| **Sunbelt | 1876 | | | | |

*If present trends continue, this hybrid will be removed from the acceptable list next year in the category indicated.

**Recommended based on exceptional 2-year average.

## ACCEPTABLE HYBRIDS FOR 1990 (continued)
## CENTRAL ALABAMA

| Yellow hybrids | | White hybrids | | Early hybrids | | Black Belt | |
|---|---|---|---|---|---|---|---|
| Brand name | Hybrid | Brand name | Hybrid | Brand name | Hybrid | Brand name | Hybrid |
| Dekalb | DK 689 | Zimmerman | Z 54 W | Zimmerman | Z 27 | Dekalb | DK 689 |
| McCurdy | 7777 | Zimmerman | Z 60 W | Asgrow/O's Gold | 2570 | McCurdy | 7777 |
| Pioneer | 3165 | Pioneer | 3144 W | Sunbelt | 6225 | Dekalb | DK 789 |
| Pioneer | 3320 | Zimmerman | Z 16 W | Sunbelt | 1802 | Zimmerman | Z 27 |
| Zimmerman | Z 27 | Zimmerman | Z 14 W | Sunbelt | 5613 | Jacques | 8400 |
| Asgrow/O's Gold | 2570 | **Zimmerman | Z 17 W | Sunbelt | 1827 | Sunbelt | 1860 |
| Dekalb | DK 789 | | | McCurdy | 7800 | New NK | PX 95 |
| Sunbelt | 1882 | | | *AgraTech | GK 750 | Pioneer | 3147 |
| Sunbelt | 1876 | | | *New NK | S 7751 | Pioneer | 3187 |
| Funk's | G-4666 | | | *Jacques | 7820 | **Jacques | 9220 |
| Deltapine | 5750 | | | **AgraTech | 888 | | |
| *Jacques | 8400 | | | **Deltapine | 5750 | | |
| *AgraTech | GK 900 | | | | | | |
| *Pioneer | 3147 | | | | | | |
| **Garst | 8180 | | | | | | |

*If present trends continue, this hybrid will be removed from the acceptable list next year in the category indicated.

**Recommended based on exceptional 2-year average.

## ACCEPTABLE HYBRIDS FOR 1990 (continued)
## SOUTHERN ALABAMA

| Yellow hybrids | | White hybrids | | Early hybrids | |
|---|---|---|---|---|---|
| Brand name | Hybrid | Brand name | Hybrid | Brand name | Hybrid |
| Dekalb | DK 689 | Zimmerman | Z 54 W | Zimmerman | Z 27 |
| Sunbelt | 1860 | Zimmerman | Z 14 W | McCurdy | 7800 |
| AgraTech | GK 900 | Zimmerman | Z 16 W | New NK | S7751 |
| Dekalb | DK 711 | Pioneer | 3144 W | New NK | PX 79 |
| Sunbelt | 1827 | *Zimmerman | Z 60 W | Jacques | 7900 |
| Dekalb | DK 789 | *Zimmerman | Z 17 W | Asgrow/O's Gold | 2570 |
| Asgrow/O's Gold | 2570 | | | Sunbelt | 1827 |
| SeedTec | St-7750 | | | Sunbelt | 1802 |
| Pioneer | 3165 | | | *Jacques | 7820 |
| Funk's | G-4666 | | | *AgraTech | GK 750 |
| Pioneer | 3147 | | | *FFR | 747 C |
| New NK | PX 95 | | | *McCurdy | 7372 |
| Deltapine | 5750 | | | **Sunbelt | 6225 |
| Sunbelt | 1882 | | | | |
| New NK | 9581 | | | | |
| **McCurdy | 7777 | | | | |
| **New NK | McNair 508 | | | | |

*If present trends continue, this hybrid will be removed from the acceptable list next year in the category indicated.

**Recommended based on exceptional 2-year average.