

# CORN PERFORMANCE TESTS IN VIRGINIA IN 1965

C. F. Genter, M. W. Alexander, H. M. Camper,  
G. D. Jones, F. S. McClaugherty, and C. W. Roane

RESEARCH REPORT 103

DECEMBER 1965

VIRGINIA AGRICULTURAL EXPERIMENT STATION  
BLACKSBURG, VIRGINIA

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## CORN PERFORMANCE TESTS IN VIRGINIA IN 1965

Replicated performance tests of hybrids designed for commercial use in Virginia are conducted each year at several locations in the state. They are conducted in an attempt to find the best hybrid for each area of the state, not only to help Virginia farmers choose the best hybrid for their individual farms, but also to help seed producers select their best hybrids for sale in the state. The tests include hybrids now being offered for sale to Virginia farmers as well as new hybrids that are being tested for possible distribution in Virginia.

These tests are of necessity limited in size so that all hybrids sold in Virginia cannot be included. No more than eight entries were tested at any location for any company. The test location of the hybrids was the choice of the company furnishing the seed. Some hybrids offered for sale but not included in these tests may perform as well or better than the best hybrids in the tests and there is no implication that they will not. Seed producers offering hybrids for sale in Virginia are encouraged to enter them in the performance tests.

The performance record of many hybrids tested in previous years is summarized in Research Report No. 76 of the Virginia Agricultural Experiment Station entitled, "Performance of Hybrid Corn Varieties Tested in Virginia, 1957-1963."

### Procedure for Evaluating Corn Hybrids

Seed was obtained from commercial seed companies, seed producers or growers, and from the Virginia Agricultural Experiment Station. Seed for all tests were packaged at Blacksburg with the seed being counted out for each replication in each test. Each test contained 4 replications, 2 of which were planted to obtain a final stand of about 14,000 plants per acre and 2 replications planted to obtain a final stand of approximately 20,000 plants per acre. Plots were thinned if the stand obtained exceeded the desired population.

Tests were located as follows: one in the southern coastal plain region at the Tidewater Research Station at Holland; one in the northern coastal plain at the Eastern Virginia Research Station at Warsaw; one in the southern Piedmont region at the Southside Research Station at Charlotte Court House; one in the northern Piedmont area at the Piedmont Research Station at Orange; one in southwestern Virginia at the Southwest Virginia Research Station at Glade Spring; and one in western Virginia at the main experiment station at Blacksburg. A test was also planted at Petersburg in east central Virginia, but extremely dry weather following planting produced such erratic stands that it was abandoned. A test of early maturing hybrids for southeastern Virginia was also conducted at Holland. The location of the test, the name of the cooperator conducting the test and the cultural practices followed are shown with each table reporting 1965 data.

The following data are reported in one or more tables: (1) number of days from planting to mid-silking; (2) per cent erect plants--those neither lodged nor broken; (3) per cent moisture in the grain at harvest; (4) yield in bushels per acre at  $15\frac{1}{2}$  per cent moisture; (5) relative yield--the per cent yield for each hybrid at each rate of planting in relation to the over-all yield of the test; (6) quality score based on the amount of damaged corn rated visually and scored from 1, very poor, to 5, excellent; (7) leaf blight also scored from 1, with no blight, to 5, severely blighted; and (8) number of ears per 100 plants, counting all ears filled completely for 3 or more inches.

Tables are arranged from the earliest hybrid, based on per cent moisture at harvest, at the top of the table to the latest hybrid at the bottom. This arrangement of the data makes it somewhat easier to select the hybrids which have performed best within a given maturity grouping. However, since all hybrids were harvested on the same date at a given location, the earliest hybrids in the test are at a disadvantage with regards to quality and stalk breakage and some allowance should be made in these comparisons for this often-delayed harvest of early hybrids.

The "relative yield" figures present an easy means of determining whether the hybrid is better or poorer than the test average and a ready comparison of the relative differences between any two hybrids in the test.

Two and three year summary tables are given for Holland, Charlotte Court House, and Emory. Test data were not available at Warsaw, Orange, or Blacksburg in 1963 so that only two-year averages are given for these locations.

#### Growing Conditions for 1965

All locations except Petersburg had excellent growing conditions for corn. Stands were excellent and there was no prolonged dry period at any location throughout the summer. Yields were high and quality generally was very good. Plant and ear heights were higher in 1965 than in any recent year. Northern leaf blight caused considerable leaf damage in some of the tests for the first time in several years. Grey leaf spot, which also affects the leaves of corn, was prevalent in the Blacksburg test. Leaf disease ratings were made by Dr. C. W. Roane of the Plant Pathology and Physiology Department.

Under the favorable growing conditions that prevailed in 1965, later maturing hybrids tended to be higher in yield than earlier maturing hybrids and yields at the higher rate of planting (usually 20,000 plants per acre) tended to be higher at all locations than those at the lower rate (usually 14,000 plants per acre).

Contributors of Seed

Seed of some open-pedigreed hybrids was obtained from Virginia certified seed growers. Seed of privately controlled hybrids was obtained from the respective companies. Other hybrid seed was supplied by the Virginia Agricultural Experiment Station. The list of brand names and source of seed of tested hybrids follows:

| <u>Hybrid Trade Name</u> | <u>Source of Seed--Contributors of Seed</u>            |
|--------------------------|--|
| Asgrow                   | Asgrow Seed Company, Mechanicsburg, Pennsylvania       |
| Carpenter                | Carpenter's Seed Cleaning Plant, Mitchells, Va.        |
| Coker                    | Coker's Pedigreed Seed Co., Hartsville, S. C.          |
| Crib Filler              | Mitchell Farms, Windfall, Indiana                      |
| DeKalb                   | DeKalb Agricultural Association, DeKalb, Ill.          |
| Hofmeyer                 | A. H. Hofmeyer, Tomahund Plantation, Williamsburg, Va. |
| Hollyview                | Hollyview Farm, Mount Airy, N. Carolina                |
| Ken-Bred                 | Louisville Seed Co., Louisville, Kentucky              |
| McNair                   | McNair Seed Co., Laurinburg, North Carolina            |
| Muncy Chief              | The Hoffman Seed & Grain Co., Muncy, Pa.               |
| Northrup-King            | Northrup-King and Co., Minneapolis, Minn.              |
| O & M                    | Ohio & Michigan Seed Co., Green Springs, Ohio          |
| PAG                      | Pfister Hybrids, Black & Abbott Farms, Walnut, Ill.    |
| Pioneer                  | Pioneer Hybrid Corn Co., Tipton, Indiana               |
| Southern States          | Cooperative Seed & Farm Supply Service, Richmond, Va.  |
| Stull                    | Stull Bros., Inc., Sebree, Kentucky                    |
| Taylor-Evans             | Taylor-Evans Seed Co., Tulia, Texas                    |
| Thompson                 | G. D. Thompson & Son, Route 1, Eagle Rock, Va.         |
| Todd                     | Todd Hybrid Sales, Abbottstown, Pa.                    |
| Watson                   | Watson Seed Farm, Rocky Mount, N. C.                   |

## Virginia Hybrids in Tests in 1965

| <u>Hybrid</u> | <u>Pedigree</u>                                   | <u>Table No.</u> |
|---------------|---|------------------|
| Va 237        | (Va 17 x Va 27)(Hy 3 x C103)                      | 7                |
| Va 286        | (Va 31 x Va 27) ( <u>Va 35 x Va 36</u> )*         | 7, 13, 14        |
| Va 418        | (1a B37 x Va 27)(Va 35 x H49)                     | 1                |
| Va 419        | (1a B37 x Va 27) ( <u>Va 36 x Va 12</u> )         | 7                |
| Va 420        | (1a B37 x Va 27) ( <u>Va 35 x Va 12</u> )         | 7, 13, 14        |
| Va 422        | (1a B37 x Va 17)(Va 20 x Va 27)                   | 7, 13, 14        |
| Va 423        | (1a B37 x Va 17)(Va 26 x Va 27)                   | 7, 10, 13, 14    |
| Va 425        | (1a B37 x Va 27) ( <u>Va 17 x Va 35</u> )         | 7                |
| Va 426        | (1a B37 x Va 27) ( <u>Va 17 x Va 36</u> )         | 1, 7, 13, 14     |
| Va 427        | (1a B37 x Va 17)(Va 27 x Va 41)                   | 7                |
| Va 429        | (1a B37 x Va 27) ( <u>Va 17 x VE 59</u> )         | 7                |
| Va 431        | (1a B37 x Va 27) ( <u>Va 20 x Va 36</u> )         | 7                |
| Va 434        | (Va 31 x 1a B37)(Va 20 x Va 29)                   | 7                |
| Va 438        | (Va 31 x 1a B37)(Va 20 x Va 43)                   | 7                |
| Va 446        | (Ind H49 x Va 35)(Va 29 x Va 43)                  | 1, 6, 7          |
| Va 457        | (Va 31 x Va44) ( <u>Va 26 x Va 41</u> )           | 10, 13, 14       |
| Va 478        | (Va 17 x W22) ( <u>Va 26 x Va 41</u> )            | 13, 14           |
| Va 483        | (Va 17 x VE 63A)(Va 41 x Va 29)                   | 1, 7             |
| Va 507        | ( <u>VE 47 x Va 41</u> ) ( <u>VE 52 x VE 54</u> ) | 13, 14           |
| VPI 646       | (W F9 x T8)(38-11 x C103)                         | 13, 14           |
| VPI 648       | (W F9 x T8)(Hy 3 x C103)                          | All except 4.    |

\*Related inbreds in the same hybrid are underlined.

## HYBRIDS TESTED, TYPES OF HYBRID, AND TABLES REPORTING DATA

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| <u>Hybrid</u>      | <u>Type*</u> | <u>Tables</u>                             |
|--------------------|--------------|---|
| Asgrow SM6         | Sp           | 1, 6, 7, 10, 13, 14                       |
| Asgrow 100         | 4x           | 1, 6, 7, 10, 11, 12, 13, 14, 15           |
| Asgrow 110         | 4x           | 1, 6, 7, 10, 13, 14                       |
| Asgrow 302         | 4x           | 1, 2, 5, 6, 7, 8, 10, 13, 14              |
| Asgrow Favorite    | 4x           | 7, 10                                     |
| Asgrow 63104       | 4x           | 1, 6, 7, 10, 13, 14                       |
| Asgrow 63120A      | 4x           | 1, 6, 13                                  |
| Asgrow 64116       | 4x           | 14  |
| Asgrow 64138       | Sp           | 1, 6, 10, 13                              |
| Asgrow H64139      | 4x           | 1, 6, 10, 13, 14                          |
| Asgrow H64141      | 4x           | 7, 14                                     |
| Asgrow H64142      | Sp           | 7   |
| Carpenter 506      | 4x           | 6, 10, 11                                 |
| Carpenter 521      | 4x           | 6, 10, 11                                 |
| Coker 12           | 4x           | 1   |
| Crib Filler 40     | 2x           | 13  |
| Crib Filler 66     | 2x           | 1, 2, 3, 5, 6, 10, 11, 12, 13             |
| Crib Filler 116    | 4x           | 10, 11                                    |
| Crib Filler 123    | 4x           | 1, 6                                      |
| DeKalb XL45        | 2x           | 6, 7, 10, 13, 14                          |
| DeKalb XL65        | 2x           | 4, 6, 7, 10, 11, 12, 13, 14, 15           |
| DeKalb XL341       | 3x           | 6, 13                                     |
| DeKalb XL346       | 3x           | 4, 6, 7, 13, 14                           |
| DeKalb XL385       | 3x           | 1, 7, 10, 13, 14                          |
| DeKalb 441         | 4x           | 4, 10, 11                                 |
| DeKalb 624         | 4x           | 6, 10, 11, 12, 13, 14, 15, 16             |
| DeKalb 805         | 2x           | 1, 2, 3, 5, 6, 10, 11, 12, 13, 14, 15, 16 |
| DeKalb 822         | 4x           | 7, 8, 13, 14                              |
| DeKalb 824         | 4x           | 1, 2, 3, 5, 6, 10, 11                     |
| DeKalb 1006        | 4x           | 7   |
| DeKalb 1055        | 2x           | 1, 2, 7, 8                                |
| DeKalb Ex4040      | 4x           | 1   |
| Hofmeyer H55       | 2x           | 1, 2, 5, 6, 7, 8, 10                      |
| Hofmeyer H404      | 4x           | 4   |
| Hofmeyer H505      | 4x           | 1, 2, 5, 6, 7, 8, 10                      |
| Hofmeyer H601      | 4x           | 1, 2, 3, 7, 8, 9, 10                      |
| Hofmeyer Binbuster | 4x           | 1, 2, 3, 5, 6, 7, 8, 9, 10                |
| Hollyview 160      | 4x           | 13, 14                                    |
| Hollyview 711W**   | 4x           | 13, 14                                    |
| Ken-Bred Sx20Y     | 2x           | 1, 6, 7, 10, 11, 12, 13, 14, 15           |
| Ken-Bred E20YA     | 4x           | All except Table 4.                       |
| McNair X200        | 2x           | 1, 2, 5, 6, 7, 8, 10, 13, 14              |
| McNair S210        | 3x           | 1, 6, 7, 10, 13, 14                       |
| McNair 225(W)**    | 4x           | 1, 6, 7, 10, 13, 14                       |
| McNair 304A        | 4x           | 1, 2, 3, 5, 6, 7, 8                       |
| McNair 6437        | 4x           | 1, 6, 7, 10, 13, 14                       |
| McNair 6438        | 4x           | 1, 6, 7                                   |
| McNair 6439        | 4x           | 10, 13, 14                                |

| <u>Hybrid</u>       | <u>Type*</u> | <u>Tables</u>                            |
|---------------------|--------------|--|
| Muncy Chief H630    | 4x           | 4, 10, 13                                |
| Muncy Chief SX660   | 2x           | 6, 7                                     |
| Muncy Chief H720    | 4x           | 4, 14                                    |
| Muncy Chief H740    | 4x           | 10, 11, 14, 15                           |
| Muncy Chief H750    | 4x           | 1, 7, 13                                 |
| Muncy Chief SX770   | 2x           | 1, 6, 12, 13, 14, 15                     |
| Muncy Chief H780    | 4x           | 7, 8                                     |
| Muncy Chief H802    | 4x           |  |
| Muncy Chief H850    | 4x           | 1, 6, 10                                 |
| Muncy Chief SX880   | 2x           | 1, 2, 5, 6, 7, 8, 10, 13, 14             |
| Northrup-King PX66  | 2x           | 6, 7, 10, 13, 14                         |
| Northrup-King PX78  | 2x           | 1, 6, 7, 13                              |
| Northrup-King PX610 | 3x           | 6, 7, 10, 13, 14                         |
| Northrup-King PX616 | 3x           | 1, 6, 7, 10, 13, 14                      |
| Northrup-King KT626 | 4x           | 1, 6, 7, 10, 13, 14                      |
| Northrup-King KT632 | 4x           | 1, 6                                     |
| Northrup-King KT638 | 4x           | 1, 6                                     |
| Northrup-King KT652 | 4x           | 1  |
| O&M GS700           | 4x           | 1, 10                                    |
| O&M GS761           | 4x           | 1, 2, 3, 10, 11                          |
| PAG SX19            | 2x           | 1, 2, 3, 5, 6                            |
| PAG SX29            | 2x           | 4, 7, 10, 13, 14                         |
| PAG SX59            | 2x           | 1, 2, 3, 5, 6                            |
| PAG 393             | 3x           | 7, 10, 11, 12, 13, 14, 15                |
| PAG 399             | 3x           | 4, 7, 10, 11, 12, 13, 14, 15             |
| PAG 437             | 4x           | 1, 2, 6                                  |
| PAG 444             | 4x           | 1, 6                                     |
| PAG Exp15020        | 2x           | 1, 6                                     |
| Pioneer 309A        | 4x           | 1, 6, 10, 14                             |
| Pioneer 310         | 4x           | 1, 2, 3, 7, 8, 9, 14                     |
| Pioneer 312A        | 4x           | 14                                       |
| Pioneer 345A        | 4x           | 4, 6, 10, 11, 12, 13, 14, 15, 16         |
| Pioneer 511**       | 4x           | 6  |
| Pioneer 511A**      | 4x           | 1  |
| Pioneer 3059        | 4x           | 1, 6, 7                                  |
| Pioneer 3097        | 3x           | 10                                       |
| Pioneer 3284        | 4x           | 13                                       |
| Pioneer 3285        | 4x           | 4, 6                                     |
| Pioneer 3304        | 2x           | 10, 11, 12, 13, 14, 15, 16               |
| Pioneer 3306        | 2x           | 1, 2, 5, 6, 7, 8, 13                     |
| Pioneer 3369        | 2x           | 6, 13                                    |
| Pioneer 3414        | 4x           | 4, 6, 13                                 |
| SS 755              | 4x           | 4, 10, 11, 12, 13, 14, 15                |
| SS 820S             | 2x           | 1, 2, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15 |
| SS 860              | 4x           | 1, 2, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15 |
| SS 909E             | 4x           | 10, 13, 14                               |
| SS 979              | 4x           | 1, 2, 7, 8                               |
| SS Catawba          | 4x           | 1, 2, 3, 5, 6, 7, 8, 9, 10               |
| SS Matoaka          | 4x           | 1, 10, 11, 14, 15, 16                    |
| SS Pocahontas       | 4x           | 4, 6                                     |
| SS Shawnee          | 4x           | 4  |

| <u>Hybrid</u>           | <u>Type*</u> | <u>Tables</u>              |
|-------------------------|--------------|----------------------------|
| Stull 100YB             | 4x           | 14                         |
| Stull 101YB             | 4x           | 14, 15                     |
| Stull 400WA             | 4x           | 14                         |
| Stull 8074Sx            | 2x           | 14, 15                     |
| Taylor-Evans E20YB      | 4x           | 1, 6, 7, 10, 13, 14        |
| Taylor-Evans Cropmaster | 2x           | 1, 6, 7, 10, 13, 14        |
| Thompson 101            | 4x           | 10, 11, 12, 13, 14, 15, 16 |
| Thompson 219            | 4x           | 10, 11, 12, 13, 14, 15     |
| Thompson 220            | 2x           | 10, 11, 12, 13, 14, 15, 16 |
| Todd 706                | 3x           | 6, 10                      |
| Todd 855                | 4x           | 10                         |
| Todd 862                | 4x           | 6, 10                      |
| Watson 401A             | 4x           | 1, 2, 3                    |
| Watson 430              | 4x           | 1, 2                       |
| VPI 646                 | 4x           | 13, 14                     |
| VPI 648                 | 4x           | All except Table 4.        |

\* 2x=single cross; 3x=3-way cross; 4x=double cross; Sp="special" cross.  
 \*\* Denotes white hybrid.

TABLE 1. CORN PERFORMANCE TEST, HOLLAND, VA. 1965

| HYBRID              | YIELD BU/A |     | RELATIVE YIELD |     | PCT STAND | PCT WATER | PCT ERECT | QUALITY | EAR HT. IN. |
|---------------------|------------|-----|----------------|-----|-----------|-----------|-----------|---------|-------------|
|                     | R1         | R2  | R1             | R2  |           |           |           |         |             |
| ASGROW 63138        | 80         | 75  | 58             | 55  | 101       | 18.9      | 79        | 3.5     | 28          |
| ASGROW 63120A       | 103        | 103 | 75             | 75  | 99        | 18.9      | 98        | 3.6     | 38          |
| ASGROW H64139       | 84         | 88  | 61             | 64  | 99        | 19.2      | 95        | 3.8     | 35          |
| DEKALB EX4040       | 127        | 130 | 92             | 95  | 101       | 19.6      | 99        | 4.0     | 40          |
| NORTHROP-KING PX616 | 128        | 143 | 93             | 104 | 98        | 19.7      | 98        | 4.0     | 41          |
| MUNCY CHIEF H850    | 121        | 145 | 88             | 105 | 98        | 19.8      | 98        | 4.1     | 38          |
| PAG SX19            | 117        | 126 | 85             | 92  | 99        | 20.1      | 96        | 3.5     | 41          |
| PIONEER 3306        | 142        | 170 | 103            | 124 | 103       | 20.5      | 96        | 4.0     | 42          |
| NORTHROP-KING KT638 | 119        | 116 | 87             | 85  | 95        | 20.6      | 99        | 3.6     | 35          |
| DEKALB 805          | 132        | 128 | 96             | 93  | 100       | 20.7      | 99        | 4.0     | 37          |
| PAG EXP 15020       | 122        | 141 | 89             | 103 | 98        | 20.8      | 98        | 3.6     | 44          |
| PAG 437             | 124        | 131 | 90             | 95  | 99        | 20.8      | 96        | 3.8     | 37          |
| T-E E20Y8           | 129        | 137 | 94             | 100 | 100       | 20.8      | 98        | 4.0     | 38          |
| MC NAIR 6437        | 106        | 132 | 77             | 96  | 100       | 20.9      | 98        | 4.0     | 36          |
| NORTHROP-KING KT626 | 122        | 142 | 89             | 103 | 99        | 21.0      | 99        | 4.0     | 40          |
| DEKALB 824          | 116        | 152 | 85             | 111 | 99        | 21.0      | 93        | 4.1     | 42          |
| OHIO-MICHIGAN GS761 | 121        | 140 | 88             | 102 | 92        | 21.0      | 98        | 4.3     | 37          |
| T-E CRUPMASTER      | 148        | 142 | 108            | 104 | 100       | 21.2      | 98        | 4.1     | 41          |
| PAG 444             | 124        | 153 | 90             | 112 | 98        | 21.2      | 97        | 3.9     | 40          |
| CRIB FILLER 123     | 141        | 140 | 103            | 102 | 99        | 21.2      | 99        | 3.8     | 40          |
| NORTHROP-KING PX78  | 134        | 136 | 98             | 99  | 99        | 21.3      | 97        | 3.9     | 39          |
| ASGROW 63104        | 118        | 128 | 86             | 94  | 98        | 21.3      | 93        | 4.0     | 37          |
| MC NAIR S210        | 119        | 126 | 87             | 92  | 99        | 21.4      | 98        | 3.9     | 37          |
| CRIB FILLER 66      | 162        | 177 | 118            | 129 | 100       | 21.4      | 100       | 4.4     | 41          |
| S.STATES 860        | 139        | 144 | 102            | 105 | 100       | 21.4      | 97        | 3.8     | 43          |
| KEN-BRED SX20Y      | 131        | 146 | 95             | 107 | 99        | 21.5      | 96        | 4.0     | 40          |
| MUNCY CHIEF H750    | 122        | 130 | 89             | 95  | 100       | 21.5      | 97        | 3.9     | 35          |
| MC NAIR 6438        | 156        | 174 | 114            | 127 | 99        | 21.5      | 96        | 4.3     | 42          |
| HOFMEYER 505        | 117        | 138 | 86             | 101 | 100       | 21.5      | 96        | 4.0     | 38          |
| DEKALB XL385        | 152        | 169 | 111            | 123 | 101       | 21.6      | 99        | 4.0     | 44          |
| S.STATES MATOAKA    | 123        | 136 | 90             | 99  | 98        | 21.6      | 96        | 3.9     | 43          |
| KEN-BRED E20YA      | 144        | 145 | 105            | 106 | 101       | 21.6      | 98        | 4.0     | 39          |
| PIONEER 310         | 149        | 155 | 109            | 113 | 100       | 21.6      | 98        | 4.0     | 38          |
| MC NAIR X200        | 133        | 155 | 97             | 113 | 99        | 21.6      | 98        | 4.0     | 40          |
| S.STATES 820S       | 148        | 156 | 108            | 113 | 101       | 21.7      | 98        | 4.3     | 41          |
| ASGROW 110          | 130        | 130 | 95             | 94  | 99        | 21.7      | 99        | 3.8     | 37          |
| ASGROW SM6          | 138        | 162 | 101            | 118 | 98        | 21.7      | 100       | 4.1     | 42          |
| MC NAIR 225W        | 135        | 124 | 98             | 90  | 89        | 21.7      | 98        | 4.3     | 43          |
| VPI 648             | 137        | 162 | 100            | 118 | 99        | 21.8      | 98        | 3.6     | 41          |
| PAG SX59            | 146        | 141 | 107            | 103 | 100       | 21.8      | 97        | 4.1     | 42          |
| MUNCY CHIEF SX880   | 131        | 150 | 96             | 109 | 98        | 21.8      | 98        | 4.1     | 41          |
| VA 426              | 142        | 159 | 103            | 116 | 97        | 21.8      | 99        | 4.0     | 39          |
| ASGROW 100          | 116        | 111 | 84             | 81  | 100       | 21.9      | 93        | 3.8     | 39          |
| HOFMEYER H601       | 142        | 158 | 103            | 115 | 101       | 21.9      | 97        | 3.5     | 46          |
| NORTHROP-KING KT652 | 129        | 133 | 94             | 97  | 100       | 21.9      | 97        | 4.0     | 41          |
| NORTHROP-KING KT632 | 113        | 102 | 83             | 74  | 99        | 21.9      | 99        | 3.6     | 35          |
| OHIO-MICHIGAN GS700 | 140        | 147 | 102            | 107 | 101       | 22.0      | 99        | 4.0     | 39          |
| HOFMEYER H55        | 128        | 140 | 93             | 102 | 100       | 22.1      | 99        | 4.1     | 41          |
| ASGROW 302          | 117        | 134 | 85             | 98  | 100       | 22.1      | 95        | 3.9     | 44          |
| HOFMEYER BINBUSTER  | 140        | 149 | 102            | 109 | 99        | 22.2      | 98        | 4.0     | 42          |
| VA 418              | 134        | 146 | 98             | 106 | 99        | 22.3      | 96        | 3.8     | 41          |
| S.STATES CATAWBA    | 132        | 146 | 96             | 107 | 101       | 22.3      | 97        | 3.9     | 40          |
| S.STATES 979        | 141        | 178 | 103            | 130 | 98        | 22.4      | 94        | 4.3     | 47          |
| COKER 12            | 121        | 136 | 88             | 99  | 101       | 22.4      | 96        | 4.0     | 39          |
| PIONEER 511A-W      | 148        | 169 | 108            | 123 | 99        | 22.4      | 96        | 4.4     | 42          |
| WATSON 430          | 137        | 167 | 100            | 122 | 96        | 22.5      | 99        | 4.1     | 42          |
| MUNCY CHIEF SX770   | 126        | 145 | 92             | 106 | 98        | 22.5      | 98        | 4.3     | 38          |
| PIONEER 3059        | 146        | 168 | 106            | 122 | 99        | 22.9      | 99        | 4.1     | 44          |
| PIONEER 309A        | 144        | 149 | 105            | 109 | 99        | 23.0      | 98        | 4.0     | 44          |
| WATSON 401A         | 131        | 156 | 95             | 114 | 100       | 23.1      | 98        | 4.1     | 39          |
| MC NAIR 304A        | 151        | 167 | 110            | 121 | 99        | 23.2      | 98        | 4.0     | 41          |
| DEKALB 1055         | 145        | 158 | 105            | 115 | 99        | 23.4      | 92        | 3.9     | 45          |
| VA 446              | 156        | 183 | 114            | 133 | 99        | 23.6      | 96        | 4.1     | 38          |
| VA 483              | 144        | 147 | 105            | 108 | 97        | 23.9      | 98        | 3.9     | 37          |
| TEST MEAN           | 131        | 143 | 0              | 0   | 99        | 21.6      | 97        | 4.0     | 40          |

COOPERATOR: M.W. ALEXANDER, TIDEWATER RESEARCH STATION, HOLLAND.  
DATE PLANTED: APRIL 30. DATE HARVESTED: SEPTEMBER 16.  
PLOT SIZE: 1 ROW, 30' X 36"  
FERTILIZER BEFORE PLANTING: 30-90-180/ACRE.  
FERTILIZER SIDEDRESSED: 125-0-0/ACRE.  
PLANTS PER ACRE FOR PERFECT STAND: R1=14000; R2=20000.  
GROWING CONDITIONS: EXCELLENT.

TABLE 2. CORN PERFORMANCE AT HOLLAND, 1964-65

| HYBRID              | YIELD BU/A |            | RELATIVE YIELD |     | PCT WATER   | EAR HT. IN. |
|---------------------|------------|------------|----------------|-----|-------------|-------------|
|                     | R1         | R2         | R1             | R2  |             |             |
| PAG SX19            | 124        | 132        | 90             | 96  | 19.1        | 40          |
| PIONEER 3306        | <u>143</u> | <u>153</u> | 105            | 112 | 19.4        | 41          |
| DEKALB 805          | 125        | 131        | 92             | 96  | 19.4        | <u>36</u>   |
| HOFMEYER 505        | 118        | 128        | 86             | 94  | 20.0        | <u>37</u>   |
| DEKALB 824          | 115        | 138        | 84             | 101 | <u>20.1</u> | 39          |
| S. STATES 860       | 129        | 131        | 94             | 96  | 20.2        | <u>38</u>   |
| PAG 437             | 129        | 131        | 95             | 96  | 20.2        | <u>35</u>   |
| OHIO-MICHIGAN GS761 | 120        | 135        | 88             | 99  | 20.2        | <u>38</u>   |
| S. STATES 820S      | <u>134</u> | 141        | 98             | 103 | 20.4        | 39          |
| MC NAIR X200        | 120        | 132        | 88             | 97  | <u>20.6</u> | 39          |
| HOFMEYER H55        | 122        | 135        | 89             | 99  | 20.6        | 39          |
| MUNCY CHIEF SX880   | <u>132</u> | <u>146</u> | 96             | 107 | 20.6        | <u>38</u>   |
| CRIB FILLER 66      | <u>141</u> | <u>155</u> | 103            | 113 | 20.7        | 39          |
| PICNEER 310         | <u>138</u> | <u>143</u> | 101            | 105 | 20.7        | <u>37</u>   |
| KEN-BRED E20YA      | <u>140</u> | <u>143</u> | 102            | 105 | <u>20.8</u> | 39          |
| VPI 648             | 127        | 141        | 93             | 103 | 21.2        | 39          |
| HOFMEYER BINBUSTER  | <u>132</u> | 141        | 96             | 104 | 21.3        | 41          |
| S. STATES CATAWBA   | 130        | 138        | 95             | 101 | 21.4        | <u>37</u>   |
| PAG SX5S            | <u>144</u> | <u>150</u> | 106            | 110 | 21.4        | 40          |
| HOFMEYER H601       | <u>141</u> | <u>147</u> | 104            | 107 | 21.4        | 44          |
| ASGR0W 302          | 116        | 125        | 85             | 92  | 21.5        | 42          |
| S. STATES 979       | <u>141</u> | <u>166</u> | 104            | 121 | 21.7        | 44          |
| WATSON 401A         | <u>132</u> | <u>145</u> | 97             | 106 | 22.0        | 39          |
| DEKALB 1055         | <u>136</u> | <u>151</u> | 99             | 111 | 22.1        | 42          |
| WATSON 430          | <u>138</u> | <u>162</u> | 101            | 119 | 22.3        | 40          |
| MC NAIR 304A        | <u>138</u> | <u>153</u> | 101            | 112 | 22.8        | 39          |
| TEST MEAN           | 131        | 142        | 96             | 104 | 20.9        | 39          |

TABLE 3. CORN PERFORMANCE AT HOLLAND, 1963-64-65

| HYBRID              | YIELD BU/A |            | RELATIVE YIELD |     | PCT WATER   | EAR HT. IN. |
|---------------------|------------|------------|----------------|-----|-------------|-------------|
|                     | R1         | R2         | R1             | R2  |             |             |
| DEKALB 805          | 124        | 126        | 97             | 98  | 19.9        | <u>37</u>   |
| PAG SX19            | <u>127</u> | 130        | 99             | 102 | 20.0        | 40          |
| DEKALB 824          | 112        | 130        | 88             | 102 | 20.7        | 39          |
| OHIO-MICHIGAN GS761 | 113        | 125        | 89             | 98  | 21.0        | <u>38</u>   |
| PIONEER 310         | <u>133</u> | <u>141</u> | 104            | 111 | <u>21.2</u> | <u>38</u>   |
| KEN-BRED E20YA      | <u>128</u> | 132        | 100            | 104 | 21.2        | 40          |
| VPI 648             | 122        | 128        | 96             | 100 | 21.4        | 39          |
| CRIB FILLER 66      | <u>133</u> | <u>139</u> | 104            | 109 | 21.5        | <u>38</u>   |
| HOFMEYER BINBUSTER  | 112        | 118        | 88             | 93  | 21.5        | 40          |
| S. STATES CATAWBA   | 121        | 125        | 95             | 98  | 22.0        | <u>37</u>   |
| HOFMEYER H601       | <u>125</u> | 128        | 98             | 101 | 22.1        | 43          |
| WATSON 401A         | <u>127</u> | <u>133</u> | 99             | 104 | 22.4        | <u>38</u>   |
| PAG SX59            | <u>135</u> | <u>143</u> | 106            | 112 | 22.8        | 40          |
| MC NAIR 304A        | 120        | <u>142</u> | 94             | 111 | 23.8        | 39          |
| TEST MEAN           | 124        | 132        | 97             | 103 | 21.5        | 39          |

TABLE 4. PERFORMANCE OF EARLY DOUBLE CROSSES, HOLLAND, VA., 1965

| HYBRID               | YIELD |     | BU/A |     | RELATIVE YIELD |      | PCT STAND | PCT WATER | PCT ERECT | EAR HT. IN. |
|----------------------|-------|-----|------|-----|----------------|------|-----------|-----------|-----------|-------------|
|                      | R1    | R2  | R1   | R2  | R1             | R2   |           |           |           |             |
| S. STATES SHAWNEE    | 101   | 110 | 78   | 85  | 99             | 21.5 | 90        | 35        |           |             |
| DEKALB 441           | 122   | 133 | 94   | 103 | 100            | 21.6 | 96        | 38        |           |             |
| HOFMEYER H404        | 138   | 153 | 107  | 118 | 101            | 21.7 | 97        | 38        |           |             |
| PIONEER 345A         | 116   | 114 | 90   | 88  | 100            | 22.0 | 90        | 37        |           |             |
| PIONEER 3285         | 142   | 149 | 109  | 115 | 100            | 22.1 | 97        | 40        |           |             |
| DEKALB XL45          | 107   | 128 | 82   | 99  | 99             | 22.3 | 95        | 37        |           |             |
| PIONEER 3414         | 127   | 144 | 98   | 111 | 98             | 22.5 | 96        | 37        |           |             |
| DEKALB XL346         | 113   | 102 | 87   | 79  | 99             | 22.5 | 97        | 31        |           |             |
| MUNCY CHIEF H630     | 102   | 113 | 79   | 87  | 99             | 22.7 | 94        | 37        |           |             |
| PAG 399              | 125   | 148 | 96   | 114 | 98             | 22.7 | 97        | 36        |           |             |
| DEKALB XL65          | 118   | 141 | 91   | 109 | 97             | 22.9 | 97        | 37        |           |             |
| PAG SX29             | 138   | 159 | 107  | 123 | 92             | 23.0 | 96        | 39        |           |             |
| MUNCY CHIEF H720     | 118   | 145 | 91   | 112 | 100            | 23.2 | 98        | 34        |           |             |
| S. STATES PUCAHONTAS | 132   | 144 | 102  | 111 | 99             | 23.5 | 99        | 37        |           |             |
| S. STATES 755        | 118   | 137 | 91   | 106 | 99             | 23.7 | 95        | 39        |           |             |
| KEN-BRED E20YA       | 148   | 165 | 114  | 127 | 101            | 24.4 | 95        | 37        |           |             |
| TEST MEAN            | 123   | 137 | 95   | 105 | 99             | 22.7 | 96        | 37        |           |             |

COOPERATOR: M.W. ALEXANDER, TIDEWATER RESEARCH STATION, HOLLAND.  
DATE PLANTED: APRIL 30. DATE HARVESTED: SEPTEMBER 16.  
PLOT SIZE: 1 ROW, 30' X 36"  
FERTILIZER BEFORE PLANTING: 30-90-180/ACRE.  
FERTILIZER SIDEDRESSED: 125-0-/ACRE  
PLANTS PER ACRE FOR PERFECT STAND: R1=L4000; R2=20000.  
GROWING CONDITIONS: EXCELLENT.

TABLE 5. CORN PERFORMANCE AT WARSAW, 1964-65

| HYBRID             | YIELD |     | BU/A |     | RELATIVE YIELD |    | PCT WATER | EAR HT. IN. |
|--------------------|-------|-----|------|-----|----------------|----|-----------|-------------|
|                    | R1    | R2  | R1   | R2  | R1             | R2 |           |             |
| DEKALB 805         | 136   | 132 | 100  | 98  | 19.7           | 39 |           |             |
| S. STATES 820S     | 134   | 148 | 99   | 109 | 20.3           | 42 |           |             |
| HOFMEYER 505       | 116   | 125 | 85   | 92  | 20.3           | 39 |           |             |
| S. STATES 860      | 132   | 151 | 97   | 111 | 20.4           | 46 |           |             |
| PAG SX19           | 135   | 135 | 99   | 99  | 20.5           | 47 |           |             |
| MC NAIR X200       | 130   | 130 | 96   | 96  | 20.5           | 43 |           |             |
| HOFMEYER H55       | 137   | 143 | 101  | 105 | 20.6           | 39 |           |             |
| KEN-BRED E20YA     | 120   | 137 | 88   | 101 | 20.7           | 42 |           |             |
| DEKALB 824         | 123   | 139 | 90   | 102 | 20.7           | 43 |           |             |
| MUNCY CHIEF SX880  | 124   | 145 | 91   | 107 | 20.8           | 44 |           |             |
| HOFMEYER BINBUSTER | 125   | 141 | 92   | 104 | 21.1           | 43 |           |             |
| VPI 648            | 132   | 145 | 97   | 107 | 21.1           | 46 |           |             |
| PIONEER 3306       | 143   | 156 | 105  | 115 | 21.5           | 46 |           |             |
| ASGROW 302         | 121   | 134 | 89   | 98  | 21.6           | 46 |           |             |
| S. STATES CATAWBA  | 129   | 134 | 95   | 99  | 21.8           | 44 |           |             |
| CRIB FILLER 66     | 149   | 150 | 110  | 110 | 21.8           | 43 |           |             |
| PAG SX59           | 138   | 149 | 101  | 109 | 23.3           | 46 |           |             |
| MC NAIR 304A       | 132   | 142 | 97   | 105 | 24.3           | 48 |           |             |
| TEST MEAN          | 131   | 141 | 96   | 104 | 21.2           | 44 |           |             |

TABLE 6. CORN PERFORMANCE TEST, WARSAW, VA., 1965

| HYBRID                 | YIELD<br>R1 | BU/A<br>R2 | RELATIVE<br>YIELD |     | PCT<br>STAND | PCT<br>WATER | PCT<br>ERECT | DAYS<br>TO<br>SILK | QUAL<br>ITY | EAR<br>HT.<br>IN. |
|------------------------|-------------|------------|-------------------|-----|--------------|--------------|--------------|--------------------|-------------|-------------------|
|                        |             |            | R1                | R2  |              |              |              |                    |             |                   |
| ASGROW 63138           | 86          | 79         | 58                | 53  | 98           | 16.1         | 94           | 60                 | 3.7         | 27                |
| PIONEER 3414           | 131         | 155        | 88                | 104 | 98           | 16.3         | 94           | 63                 | 4.6         | 43                |
| ASGROW F64139          | 82          | 102        | 56                | 68  | 97           | 16.9         | 94           | 61                 | 3.9         | 35                |
| TODD 706               | 110         | 121        | 74                | 81  | 95           | 17.2         | 94           | 66                 | 3.9         | 35                |
| MC NAIR 6437           | 128         | 139        | 86                | 93  | 96           | 17.5         | 97           | 65                 | 4.3         | 40                |
| MUNCY CHIEF SX660      | 101         | 131        | 68                | 88  | 94           | 17.6         | 94           | 62                 | 4.1         | 34                |
| S.STATES POCAHONTAS138 | 157         | 93         | 106               |     | 99           | 17.8         | 85           | 67                 | 4.1         | 42                |
| NORTHROP-KING KT632117 | 130         | 79         | 88                |     | 94           | 17.9         | 97           | 62                 | 4.2         | 34                |
| DEKALB XL341           | 118         | 128        | 80                | 86  | 93           | 17.9         | 92           | 63                 | 4.0         | 38                |
| ASGROW 63104           | 136         | 146        | 92                | 98  | 97           | 18.0         | 97           | 66                 | 4.6         | 41                |
| DEKALB XL45            | 106         | 107        | 71                | 72  | 95           | 18.0         | 95           | 60                 | 4.0         | 33                |
| NORTHROP-KING PX66     | 132         | 150        | 89                | 101 | 96           | 18.2         | 91           | 64                 | 4.6         | 36                |
| PAG SX19               | 149         | 152        | 100               | 102 | 92           | 18.3         | 96           | 69                 | 4.5         | 50                |
| NORTHROP-KING PX78     | 134         | 147        | 90                | 99  | 95           | 18.4         | 93           | 64                 | 4.3         | 38                |
| NORTHROP-KING KT626151 | 151         | 102        | 101               |     | 95           | 18.4         | 96           | 66                 | 4.4         | 42                |
| MUNCY CHIEF H850       | 142         | 145        | 95                | 97  | 98           | 18.4         | 98           | 67                 | 4.4         | 39                |
| PAG EXP 15020          | 161         | 203        | 108               | 136 | 98           | 18.5         | 96           | 70                 | 4.4         | 55                |
| ASGROW 63120A          | 137         | 142        | 92                | 96  | 99           | 18.5         | 94           | 66                 | 4.0         | 42                |
| CARPENTER 506          | 116         | 155        | 78                | 104 | 99           | 18.6         | 86           | 66                 | 4.3         | 41                |
| S.STATES 860           | 137         | 163        | 93                | 110 | 95           | 18.6         | 92           | 67                 | 4.3         | 41                |
| NORTHROP-KING PX610129 | 143         | 87         | 96                |     | 98           | 18.7         | 96           | 65                 | 4.5         | 38                |
| MUNCY CHIEF SX880      | 129         | 173        | 87                | 117 | 92           | 18.7         | 91           | 66                 | 4.8         | 43                |
| PIONEER 3285           | 154         | 154        | 104               | 103 | 98           | 18.8         | 98           | 65                 | 4.3         | 46                |
| PIONEER 345A           | 132         | 136        | 89                | 91  | 97           | 18.8         | 77           | 66                 | 4.2         | 42                |
| DEKALB XL346           | 127         | 120        | 85                | 81  | 98           | 18.9         | 97           | 61                 | 4.3         | 33                |
| DEKALB 805             | 149         | 151        | 101               | 102 | 96           | 19.0         | 95           | 66                 | 4.3         | 37                |
| HOFMEYER 505           | 125         | 134        | 84                | 90  | 98           | 19.0         | 90           | 65                 | 4.3         | 38                |
| S.STATES 860           | 163         | 185        | 110               | 124 | 98           | 19.0         | 89           | 68                 | 4.8         | 51                |
| NORTHROP-KING PX616131 | 156         | 88         | 105               |     | 96           | 19.0         | 98           | 66                 | 4.6         | 46                |
| NORTHROP-KING KT638131 | 146         | 88         | 98                |     | 97           | 19.0         | 95           | 65                 | 4.6         | 36                |
| PIONEER 3369           | 157         | 161        | 105               | 109 | 98           | 19.0         | 99           | 67                 | 4.9         | 39                |
| DEKALB 624             | 129         | 154        | 87                | 104 | 95           | 19.1         | 94           | 66                 | 4.6         | 42                |
| KEN-BRED E20YA         | 132         | 156        | 89                | 105 | 97           | 19.2         | 98           | 66                 | 4.4         | 43                |
| T-E CROPMASTER         | 157         | 160        | 106               | 108 | 95           | 19.3         | 97           | 66                 | 4.7         | 43                |
| MC NAIR S210           | 115         | 126        | 78                | 85  | 95           | 19.4         | 95           | 65                 | 4.2         | 38                |
| DEKALB XL65            | 129         | 145        | 87                | 97  | 96           | 19.5         | 98           | 64                 | 4.6         | 37                |
| HOFMEYER H55           | 154         | 159        | 104               | 107 | 96           | 19.6         | 98           | 68                 | 4.5         | 38                |
| S.STATES 820S          | 164         | 184        | 111               | 124 | 95           | 19.7         | 98           | 67                 | 4.8         | 42                |
| KEN-BRED SX20Y         | 144         | 174        | 97                | 117 | 96           | 19.7         | 94           | 67                 | 4.6         | 46                |
| ASGROW 100             | 125         | 153        | 84                | 103 | 93           | 19.7         | 97           | 66                 | 4.4         | 41                |
| CRIB FILLER 123        | 145         | 164        | 98                | 111 | 96           | 19.8         | 95           | 66                 | 4.7         | 50                |
| VPI 648                | 151         | 175        | 102               | 118 | 95           | 19.8         | 90           | 67                 | 4.5         | 47                |
| MC NAIR X200           | 155         | 154        | 104               | 104 | 95           | 19.9         | 92           | 67                 | 4.8         | 41                |
| HOFMEYER BINBUSTER     | 147         | 173        | 99                | 117 | 97           | 20.0         | 88           | 68                 | 4.8         | 46                |
| ASGROW SM6             | 163         | 184        | 109               | 124 | 94           | 20.0         | 98           | 66                 | 5.0         | 45                |
| PAG 444                | 149         | 167        | 100               | 112 | 97           | 20.0         | 95           | 68                 | 4.3         | 46                |
| MC NAIR 6438           | 175         | 201        | 118               | 135 | 99           | 20.1         | 98           | 67                 | 5.0         | 48                |
| MUNCY CHIEF SX770      | 139         | 134        | 93                | 90  | 93           | 20.1         | 98           | 66                 | 4.8         | 40                |
| DEKALB 824             | 139         | 151        | 93                | 101 | 96           | 20.1         | 91           | 67                 | 4.6         | 44                |
| T-E E20YB              | 152         | 169        | 102               | 114 | 99           | 20.2         | 95           | 67                 | 4.8         | 46                |
| CARPENTER 521          | 153         | 161        | 103               | 108 | 97           | 20.4         | 92           | 68                 | 4.7         | 47                |
| CRIB FILLER 66         | 179         | 181        | 120               | 122 | 97           | 20.4         | 94           | 68                 | 5.0         | 44                |
| S.STATES CATAWBA       | 148         | 157        | 99                | 105 | 97           | 20.5         | 83           | 68                 | 4.4         | 47                |
| ASGROW 110             | 133         | 143        | 90                | 96  | 99           | 20.7         | 96           | 67                 | 4.2         | 40                |
| ASGROW 302             | 140         | 161        | 94                | 108 | 98           | 20.7         | 87           | 69                 | 4.5         | 47                |
| TODD 862               | 147         | 149        | 99                | 100 | 95           | 20.8         | 94           | 67                 | 4.2         | 45                |
| PIONEER 3306           | 168         | 185        | 113               | 124 | 96           | 20.8         | 98           | 68                 | 4.5         | 48                |
| MC NAIR 225W           | 169         | 194        | 114               | 130 | 96           | 21.3         | 93           | 69                 | 4.6         | 52                |
| PIONEER 511            | 186         | 204        | 125               | 138 | 96           | 21.5         | 86           | 72                 | 4.6         | 52                |
| VA 446                 | 167         | 188        | 112               | 127 | 98           | 22.3         | 83           | 68                 | 4.7         | 45                |
| PIONEER 309A           | 152         | 176        | 102               | 119 | 97           | 22.3         | 91           | 72                 | 4.4         | 56                |
| MC NAIR 304A           | 152         | 175        | 103               | 117 | 99           | 22.9         | 86           | 70                 | 4.6         | 52                |
| PAG SX59               | 154         | 162        | 104               | 109 | 92           | 23.3         | 95           | 70                 | 4.6         | 49                |
| PIONEER 3059           | 188         | 198        | 127               | 133 | 97           | 23.5         | 94           | 73                 | 4.5         | 55                |
| TEST MEAN              | 141         | 156        | 95                | 105 | 96           | 19.4         | 93           | 66                 | 4.5         | 43                |

COOPERATOR: H.M. CAMPER, JR., EASTERN VIRGINIA RESEARCH STATION, WARSAW.  
 DATE PLANTED: MAY 5. DATE HARVESTED: SEPTEMBER 16-23.  
 PLOT SIZE: 1 ROW, 31' X 36".  
 FERTILIZER BEFORE PLANTING: 60-100-100/ACRE.  
 FERTILIZER SIDEDRESSED: 90-0-0/ACRE.  
 PLANTS PER ACRE FOR PERFECT STAND: R1=L4000; R2=20000.  
 GROWING CONDITIONS: DRY MAY, EXCELLENT THEREAFTER.

TABLE 7. CORN PERFORMANCE TEST, CHARLOTTE C.H., VA., 1965

| HYBRID              | YIELD<br>R1 | BU/A<br>R2 | RELATIVE<br>YIELD |     | PCT<br>STAND | PCT<br>WATER | PCT<br>ERECT | DAYS<br>TO<br>SILK | EAR<br>HT.<br>IN. |
|---------------------|-------------|------------|-------------------|-----|--------------|--------------|--------------|--------------------|-------------------|
|                     |             |            | R1                | R2  |              |              |              |                    |                   |
| DEKALB XL45         | 85          | 92         | 80                | 86  | 100          | 23.5         | 98           | 57                 | 34                |
| MC NAIR 6437        | 88          | 106        | 82                | 99  | 100          | 23.9         | 96           | 61                 | 40                |
| ASGRGW 63104        | 97          | 108        | 90                | 101 | 101          | 23.9         | 93           | 62                 | 44                |
| NORTHRUP-KING PX610 | 95          | 109        | 89                | 102 | 100          | 24.0         | 95           | 61                 | 39                |
| ASGRGW H64141       | 85          | 99         | 80                | 93  | 102          | 24.0         | 94           | 60                 | 42                |
| PAG 399             | 97          | 114        | 91                | 107 | 100          | 24.3         | 93           | 62                 | 46                |
| NORTHRUP-KING PX616 | 89          | 107        | 83                | 101 | 100          | 24.5         | 88           | 62                 | 44                |
| NCRTHRUP-KING PX66  | 100         | 103        | 94                | 97  | 100          | 24.6         | 91           | 61                 | 39                |
| MUNCY CHIEF SX660   | 83          | 100        | 78                | 94  | 101          | 24.7         | 88           | 60                 | 39                |
| ASGRGW H64142       | 88          | 92         | 83                | 87  | 100          | 24.9         | 91           | 59                 | 41                |
| S.STATES 860        | 101         | 118        | 95                | 111 | 99           | 24.9         | 94           | 63                 | 49                |
| DEKALB XL346        | 86          | 95         | 81                | 89  | 101          | 25.0         | 99           | 58                 | 38                |
| HCFMEYER 505        | 92          | 97         | 86                | 91  | 101          | 25.0         | 90           | 62                 | 43                |
| PAG SX29            | 95          | 121        | 89                | 114 | 97           | 25.0         | 92           | 62                 | 44                |
| PAG 393             | 88          | 114        | 82                | 107 | 101          | 25.1         | 94           | 63                 | 42                |
| NORTHRUP-KING KT626 | 95          | 122        | 89                | 114 | 100          | 25.1         | 89           | 62                 | 46                |
| MUNCY CHIEF H780    | 100         | 126        | 94                | 118 | 102          | 25.1         | 80           | 61                 | 40                |
| T-E CRGPMASER       | 110         | 116        | 103               | 109 | 100          | 25.1         | 90           | 62                 | 43                |
| DEKALB XL65         | 91          | 112        | 86                | 105 | 100          | 25.1         | 92           | 62                 | 38                |
| ASGRGW 100          | 102         | 110        | 95                | 103 | 101          | 25.2         | 91           | 62                 | 42                |
| HOFMEYER H55        | 111         | 133        | 104               | 125 | 100          | 25.4         | 94           | 62                 | 44                |
| VA 419              | 104         | 124        | 98                | 117 | 100          | 25.5         | 94           | 64                 | 45                |
| MC NAIR S210        | 91          | 106        | 85                | 99  | 99           | 25.5         | 95           | 62                 | 42                |
| NORTHRUP-KING PX78  | 108         | 124        | 101               | 116 | 102          | 25.7         | 92           | 60                 | 40                |
| MUNCY CHIEF SX880   | 103         | 116        | 97                | 108 | 100          | 25.8         | 94           | 62                 | 45                |
| T-E E20YE           | 93          | 122        | 87                | 115 | 100          | 25.8         | 92           | 64                 | 45                |
| HOFMEYER BINBUSTER  | 92          | 112        | 86                | 105 | 98           | 26.0         | 85           | 64                 | 45                |
| VA 286              | 101         | 117        | 95                | 110 | 100          | 26.0         | 91           | 63                 | 45                |
| VPI 648             | 102         | 123        | 96                | 115 | 99           | 26.1         | 92           | 62                 | 47                |
| PICNEER 3306        | 103         | 120        | 97                | 112 | 100          | 26.1         | 98           | 63                 | 46                |
| MUNCY CHIEF H750    | 95          | 106        | 89                | 99  | 96           | 26.1         | 90           | 63                 | 38                |
| KEN-BRED SX20Y      | 105         | 127        | 98                | 119 | 101          | 26.2         | 87           | 63                 | 48                |
| VA 420              | 101         | 111        | 94                | 104 | 100          | 26.2         | 92           | 63                 | 47                |
| VA 438              | 106         | 111        | 99                | 104 | 100          | 26.3         | 89           | 62                 | 34                |
| PICNEER 310         | 119         | 119        | 112               | 111 | 99           | 26.4         | 89           | 64                 | 48                |
| S.STATES CATAWBA    | 101         | 100        | 95                | 93  | 100          | 26.4         | 91           | 63                 | 45                |
| MC NAIR X200        | 108         | 126        | 101               | 118 | 99           | 26.5         | 95           | 62                 | 44                |
| VA 431              | 93          | 120        | 88                | 113 | 101          | 26.6         | 99           | 63                 | 42                |
| S.STATES 820S       | 114         | 116        | 107               | 109 | 99           | 26.6         | 87           | 62                 | 43                |
| ASGRGW SM6          | 117         | 127        | 110               | 119 | 99           | 26.8         | 92           | 62                 | 44                |
| DEKALB 822          | 96          | 113        | 90                | 106 | 100          | 26.9         | 95           | 61                 | 47                |
| HOFMEYER H601       | 96          | 121        | 90                | 114 | 102          | 26.9         | 83           | 65                 | 53                |
| VA 427              | 87          | 107        | 81                | 100 | 101          | 27.0         | 98           | 62                 | 42                |
| VA 426              | 102         | 111        | 95                | 104 | 100          | 27.2         | 97           | 63                 | 43                |
| VA 429              | 94          | 113        | 88                | 106 | 100          | 27.2         | 98           | 62                 | 42                |
| ASGRGW 110          | 97          | 104        | 91                | 98  | 100          | 27.2         | 90           | 63                 | 45                |
| MC NAIR 225W        | 105         | 116        | 98                | 109 | 100          | 27.3         | 87           | 65                 | 49                |
| KEN-BRED E20YA      | 102         | 113        | 95                | 106 | 100          | 27.3         | 90           | 61                 | 45                |
| VA 423              | 98          | 109        | 92                | 102 | 100          | 27.3         | 97           | 61                 | 43                |
| VA 422              | 88          | 104        | 82                | 97  | 100          | 27.4         | 95           | 62                 | 45                |
| S.STATES 979        | 103         | 121        | 97                | 113 | 100          | 27.4         | 88           | 65                 | 52                |
| DEKALB XL385        | 97          | 122        | 91                | 114 | 100          | 27.4         | 95           | 64                 | 45                |
| VA 237              | 92          | 108        | 86                | 101 | 100          | 27.4         | 90           | 64                 | 39                |
| ASGRGW 3C2          | 101         | 120        | 95                | 112 | 100          | 27.4         | 88           | 63                 | 46                |
| MC NAIR 6438        | 110         | 130        | 103               | 122 | 99           | 27.5         | 87           | 62                 | 45                |
| VA 425              | 94          | 111        | 88                | 104 | 100          | 27.7         | 96           | 62                 | 45                |
| VA 434              | 113         | 123        | 106               | 115 | 101          | 28.7         | 91           | 62                 | 39                |
| DEKALB 1C06         | 99          | 124        | 92                | 116 | 100          | 29.0         | 88           | 68                 | 54                |
| VA 446              | 118         | 134        | 111               | 125 | 101          | 29.4         | 82           | 65                 | 47                |
| ASGRGW FAVORITE     | 93          | 106        | 87                | 100 | 100          | 30.2         | 83           | 64                 | 44                |
| PICNEER 3059        | 111         | 148        | 104               | 139 | 101          | 30.5         | 86           | 69                 | 49                |
| VA 483              | 90          | 108        | 84                | 101 | 99           | 31.0         | 81           | 64                 | 45                |
| MC NAIR 304A        | 109         | 122        | 102               | 115 | 99           | 31.5         | 95           | 64                 | 51                |
| DEKALB 1C55         | 108         | 115        | 101               | 108 | 101          | 32.1         | 91           | 70                 | 56                |
| TEST MEAN           | 99          | 114        | 93                | 107 | 100          | 26.5         | 91           | 63                 | 44                |

COOPERATOR: R.D. SEARS, SOUTHSIDE RESEARCH STATION, CHARLOTTE C.H.  
DATE PLANTED: MAY 4-5. DATE HARVESTED: SEPTEMBER 18-21.  
PLOT SIZE: 1 ROW, 30' X 36"  
FERTILIZER APPLIED: 125-125-125/ACRE BEFORE PLANTING.  
PLANTS PER ACRE FOR PERFECT STAND: R1=12000; R2=18000.  
GROWING CONDITIONS: GOOD.

TABLE 8. CORN PERFORMANCE AT CHARLOTTE COURT HOUSE, 1964-65

| HYBRID             | YIELD BU/A |           | RELATIVE YIELD |     | PCT WATER   | EAR HT. IN. |
|--------------------|------------|-----------|----------------|-----|-------------|-------------|
|                    | R1         | R2        | R1             | R2  |             |             |
| S. STATES 860      | 71         | <u>81</u> | 93             | 107 | <u>24.6</u> | 49          |
| HOFMEYER 505       | 67         | 70        | 88             | 91  | <u>25.1</u> | <u>43</u>   |
| MUNCY CHIEF SX880  | 73         | 77        | 96             | 101 | <u>25.4</u> | <u>45</u>   |
| HOFMEYER H55       | <u>79</u>  | <u>86</u> | 103            | 113 | <u>25.4</u> | <u>44</u>   |
| MUNCY CHIEF H780   | 71         | <u>81</u> | 93             | 106 | <u>25.5</u> | <u>40</u>   |
| DEKALB 822         | 70         | 75        | 92             | 98  | <u>25.5</u> | <u>47</u>   |
| PIONEER 3306       | <u>78</u>  | <u>86</u> | 102            | 112 | <u>25.7</u> | <u>46</u>   |
| S. STATES 8205     | <u>78</u>  | 76        | 102            | 100 | <u>26.2</u> | <u>43</u>   |
| VPI 648            | 70         | 80        | 92             | 105 | <u>26.2</u> | <u>47</u>   |
| S. STATES CATAWBA  | 68         | 71        | 88             | 93  | <u>26.3</u> | <u>45</u>   |
| PIONEER 310        | <u>78</u>  | <u>85</u> | 102            | 111 | <u>26.5</u> | 48          |
| MC NAIR X200       | <u>76</u>  | <u>83</u> | 99             | 108 | <u>26.5</u> | <u>44</u>   |
| KEN-BRED E20YA     | 72         | 79        | 95             | 103 | 26.6        | <u>43</u>   |
| HOFMEYER BINBUSTER | 68         | 74        | 89             | 97  | 26.7        | <u>45</u>   |
| ASGROW 302         | <u>77</u>  | <u>82</u> | 101            | 108 | 26.9        | <u>46</u>   |
| S. STATES 979      | 71         | <u>82</u> | 94             | 107 | 27.1        | 52          |
| HOFMEYER H601      | 69         | <u>83</u> | 91             | 109 | 27.2        | 53          |
| MC NAIR 304A       | <u>74</u>  | 80        | 98             | 105 | 29.8        | 51          |
| DEKALB 1055        | <u>77</u>  | <u>81</u> | 101            | 107 | 32.4        | 56          |
| TEST MEAN          | 73         | 80        | 96             | 104 | 26.6        | 47          |

TABLE 9. CORN PERFORMANCE AT CHARLOTTE COURT HOUSE, 1963-64-65

| HYBRID             | YIELD BU/A |           | RELATIVE YIELD |     | PCT WATER   | EAR HT. IN. |
|--------------------|------------|-----------|----------------|-----|-------------|-------------|
|                    | R1         | R2        | R1             | R2  |             |             |
| VPI 648            | 55         | <u>59</u> | 97             | 104 | <u>26.2</u> | <u>47</u>   |
| S. STATES CATAWBA  | 55         | 51        | 97             | 91  | <u>26.8</u> | <u>45</u>   |
| HOFMEYER BINBUSTER | 52         | 56        | 92             | 98  | <u>26.8</u> | <u>45</u>   |
| PIONEER 310        | <u>61</u>  | <u>63</u> | 107            | 111 | 27.2        | 48          |
| KEN-BRED E20YA     | <u>57</u>  | <u>59</u> | 100            | 104 | 27.4        | <u>45</u>   |
| HOFMEYER H601      | 53         | <u>60</u> | 93             | 106 | 27.7        | 53          |
| TEST MEAN          | 55         | 58        | 98             | 102 | 27.0        | 47          |

TABLE 10. CORN PERFORMANCE TEST, ORANGE, VA., 1965

| HYBRID              | YIELD BU/A |            | RELATIVE YIELD |     | PCT STAND | PCT WATER   | PCT ERECT | QUAL ITY   | EAR HT. IN. | LEAF BLIGHT |
|---------------------|------------|------------|----------------|-----|-----------|-------------|-----------|------------|-------------|-------------|
|                     | K1         | R2         | R1             | R2  |           |             |           |            |             |             |
| ASGRW 63138         | 120        | 132        | 78             | 86  | 100       | <u>18.4</u> | 86        | 4.1        | <u>35</u>   | 2.4         |
| ASGRW h64139        | 114        | 123        | 75             | 81  | 100       | <u>19.6</u> | 86        | 3.8        | <u>36</u>   | 3.4         |
| TODD 706            | 109        | 130        | 71             | 85  | 97        | <u>19.8</u> | <u>95</u> | 4.4        | <u>36</u>   | 3.0         |
| THCMPSCN 220        | 140        | 137        | 91             | 90  | 100       | <u>19.8</u> | <u>95</u> | 4.6        | <u>39</u>   | 2.0         |
| HCFMEYER 505        | 141        | 139        | 92             | 91  | 97        | <u>20.2</u> | 88        | 4.8        | 41          | <u>1.6</u>  |
| MUNCY CHIEF H630    | 119        | 122        | 78             | 80  | 99        | <u>20.2</u> | <u>92</u> | 4.0        | 36          | <u>1.4</u>  |
| PICNEER 345A        | 142        | 149        | 93             | 97  | 100       | <u>20.3</u> | 82        | 4.0        | <u>39</u>   | <u>1.3</u>  |
| MC NAIR 6439        | <u>151</u> | 154        | 99             | 101 | 98        | <u>20.5</u> | 98        | 4.8        | 44          | 2.0         |
| DEKALB 441          | <u>149</u> | <u>166</u> | 98             | 109 | 97        | <u>20.5</u> | <u>96</u> | <u>5.0</u> | <u>38</u>   | 1.8         |
| PAG SX29            | <u>147</u> | 151        | 96             | 99  | 82        | <u>20.6</u> | <u>97</u> | 4.6        | 47          | <u>1.5</u>  |
| S.STATES 755        | 147        | 130        | 96             | 85  | 98        | <u>20.7</u> | 80        | 4.8        | <u>38</u>   | 2.3         |
| VA 457              | 139        | 150        | 91             | 98  | 99        | <u>21.0</u> | <u>94</u> | 4.4        | <u>36</u>   | <u>1.3</u>  |
| NORTHROP-KING PX66  | 142        | 150        | 93             | 98  | 97        | <u>21.0</u> | <u>96</u> | 4.4        | 41          | <u>1.3</u>  |
| HOFMEYER BINEUSTER  | <u>149</u> | 146        | 98             | 96  | 99        | <u>21.1</u> | 87        | 4.6        | 41          | <u>1.6</u>  |
| ASGRW 63104         | 129        | 148        | 85             | 97  | 91        | <u>21.3</u> | 89        | <u>5.0</u> | <u>39</u>   | <u>1.6</u>  |
| ASGRW 100           | 140        | 157        | 92             | 103 | 100       | <u>21.3</u> | <u>96</u> | 4.5        | 41          | <u>1.3</u>  |
| DEKALB XL45         | 117        | 128        | 76             | 83  | 98        | <u>21.3</u> | <u>93</u> | 4.8        | <u>33</u>   | <u>1.4</u>  |
| CRIB FILLER 116     | <u>152</u> | <u>170</u> | 100            | 111 | 99        | <u>21.4</u> | 89        | 4.4        | 44          | 1.8         |
| CARPENTER 506       | 127        | 154        | 83             | 101 | 93        | <u>21.4</u> | <u>94</u> | 4.9        | 42          | 3.4         |
| VPI 648             | 146        | <u>165</u> | 96             | 108 | 100       | <u>21.5</u> | 78        | 4.8        | 44          | <u>1.0</u>  |
| DEKALB XL65         | 144        | <u>170</u> | 94             | 111 | 99        | <u>21.5</u> | 88        | 4.9        | 41          | <u>1.6</u>  |
| DEKALB 824          | 144        | 141        | 94             | 92  | 99        | <u>21.6</u> | 90        | 3.8        | 42          | 2.3         |
| OHIO-MICHIGAN GS761 | 144        | <u>162</u> | 94             | 106 | 91        | <u>21.6</u> | <u>92</u> | 4.8        | 44          | 1.9         |
| MC NAIR 6437        | 133        | <u>156</u> | 87             | 102 | 99        | <u>21.6</u> | <u>98</u> | 4.8        | <u>39</u>   | 1.8         |
| HCFMEYER H55        | <u>159</u> | <u>161</u> | 104            | 105 | 99        | <u>21.7</u> | <u>93</u> | 4.6        | 41          | 2.9         |
| TODD 855            | <u>154</u> | <u>161</u> | 101            | 106 | 98        | <u>21.7</u> | 86        | 4.8        | 42          | 2.4         |
| MUNCY CHIEF SX880   | 138        | 156        | 90             | 102 | 93        | <u>21.8</u> | 86        | 4.4        | <u>39</u>   | <u>1.5</u>  |
| NORTHROP-KING PX616 | <u>157</u> | <u>166</u> | 103            | 108 | 97        | <u>21.8</u> | <u>97</u> | 4.9        | 42          | <u>1.4</u>  |
| MC NAIR S210        | 135        | 148        | 88             | 97  | 95        | <u>21.8</u> | <u>94</u> | 4.9        | 42          | 3.0         |
| PAG 399             | 115        | 155        | 75             | 102 | 98        | <u>21.8</u> | <u>94</u> | 3.9        | <u>38</u>   | <u>1.1</u>  |
| S.STATES 8205       | <u>163</u> | <u>176</u> | 107            | 115 | 100       | <u>21.8</u> | 87        | 4.9        | 44          | 2.1         |
| NORTHROP-KING KT626 | <u>161</u> | <u>165</u> | 105            | 108 | 98        | <u>21.9</u> | 85        | 4.6        | <u>39</u>   | 1.8         |
| THOMPSON 101        | 136        | 155        | 89             | 101 | 100       | <u>21.9</u> | 83        | 4.8        | 44          | 1.9         |
| MUNCY CHIEF H740    | <u>151</u> | 155        | 99             | 101 | 96        | <u>22.0</u> | <u>91</u> | 4.6        | <u>36</u>   | <u>1.5</u>  |
| T-E CROPMASTER      | <u>154</u> | <u>173</u> | 101            | 113 | 98        | 22.0        | <u>94</u> | 4.9        | <u>39</u>   | <u>1.6</u>  |
| CARPENTER 521       | <u>162</u> | <u>165</u> | 106            | 108 | 98        | 22.1        | <u>93</u> | 4.6        | 38          | <u>1.4</u>  |
| DEKALB 624          | <u>148</u> | <u>167</u> | 97             | 109 | 97        | 22.2        | <u>97</u> | 4.6        | 41          | <u>1.3</u>  |
| THCMPSCN 219        | <u>152</u> | <u>164</u> | 100            | 107 | 99        | 22.2        | 87        | 4.8        | 41          | 2.3         |
| MUNCY CHIEF H850    | <u>150</u> | 152        | 98             | 100 | 98        | 22.2        | <u>94</u> | 4.5        | 41          | <u>1.4</u>  |
| PICNEER 3097        | <u>158</u> | <u>190</u> | 103            | 124 | 97        | 22.3        | <u>93</u> | <u>5.0</u> | 44          | 3.4         |
| PAG 393             | 119        | 150        | 78             | 98  | 95        | 22.4        | <u>99</u> | 4.3        | <u>38</u>   | <u>1.6</u>  |
| KEN-BRED E20YA      | <u>159</u> | 181        | 104            | 119 | 100       | 22.5        | 95        | 4.9        | 42          | <u>1.5</u>  |
| T-E E20YB           | 136        | <u>167</u> | 89             | 109 | 94        | 22.5        | <u>90</u> | 4.9        | 42          | <u>1.0</u>  |
| MC NAIR X200        | <u>153</u> | 154        | 100            | 101 | 97        | 22.5        | 84        | 4.5        | 42          | <u>1.3</u>  |
| DEKALB 805          | <u>153</u> | 126        | 100            | 82  | 97        | 22.6        | 87        | 4.4        | <u>38</u>   | 1.8         |
| NORTHROP-KING PX610 | 148        | 151        | 97             | 99  | 99        | 22.6        | <u>98</u> | <u>5.0</u> | <u>36</u>   | <u>1.5</u>  |
| VA 423              | 147        | <u>177</u> | 96             | 116 | 94        | 22.7        | 81        | 4.9        | 41          | <u>1.5</u>  |
| OHIO-MICHIGAN GS700 | <u>167</u> | <u>197</u> | 109            | 129 | 99        | 22.7        | <u>99</u> | 4.8        | 47          | 1.8         |
| KEN-BRED SX20Y      | <u>166</u> | 158        | 109            | 104 | 99        | 22.7        | 90        | 4.9        | <u>39</u>   | 2.4         |
| ASGRW SW6           | <u>171</u> | <u>185</u> | 112            | 121 | 99        | 22.7        | <u>97</u> | 4.8        | 42          | <u>1.5</u>  |
| ASGRW 302           | <u>152</u> | 150        | 99             | 98  | 100       | 22.8        | 87        | 4.5        | 44          | <u>1.5</u>  |
| PICNEER 3304        | <u>150</u> | <u>167</u> | 98             | 109 | 95        | 22.8        | <u>98</u> | 4.6        | 42          | <u>1.4</u>  |
| MC NAIR 225W        | 140        | <u>202</u> | 92             | 132 | 94        | 22.9        | <u>95</u> | <u>5.0</u> | 44          | 2.6         |
| ASGRW 110           | <u>151</u> | <u>172</u> | 99             | 112 | 100       | 23.0        | 89        | 4.6        | 44          | <u>1.3</u>  |
| S.STATES MATOAKA    | <u>155</u> | <u>167</u> | 101            | 109 | 98        | 23.0        | 74        | 4.6        | 42          | <u>2.4</u>  |
| S.STATES 860        | <u>166</u> | <u>162</u> | 109            | 106 | 100       | 23.0        | <u>94</u> | 4.8        | 44          | <u>1.4</u>  |
| HOFMEYER H601       | <u>150</u> | <u>175</u> | 98             | 115 | 97        | 23.3        | 90        | 4.5        | 51          | 2.3         |
| S.STATES 909E       | <u>169</u> | <u>190</u> | 111            | 124 | 100       | 23.5        | 80        | 4.5        | 50          | 1.8         |
| CRIB FILLER 66      | <u>159</u> | 154        | 104            | 101 | 100       | 23.5        | 82        | 4.9        | 42          | <u>1.4</u>  |
| TODD 862            | <u>145</u> | 147        | 95             | 96  | 100       | 23.6        | <u>94</u> | <u>5.0</u> | 41          | 1.8         |
| S.STATES CATANBA    | <u>156</u> | <u>173</u> | 102            | 113 | 100       | 23.7        | 64        | 4.6        | <u>36</u>   | 2.1         |
| DEKALB XL385        | <u>180</u> | <u>176</u> | 118            | 116 | 100       | 24.2        | <u>98</u> | <u>5.0</u> | 44          | 1.9         |
| PICNEER 309A        | <u>159</u> | <u>186</u> | 104            | 122 | 99        | 26.1        | <u>91</u> | 4.9        | 50          | <u>1.5</u>  |
| ASGRW FAVORITE      | <u>149</u> | <u>171</u> | 98             | 112 | 100       | 26.3        | 89        | <u>5.0</u> | 42          | <u>1.5</u>  |
| TEST MEAN           | 147        | 159        | 96             | 104 | 98        | 22.0        | 90        | 4.6        | 41          | 1.8         |

COOPERATOR: G.D. JONES, NORTHERN PIEDMONT RESEARCH STATION, ORANGE.  
DATE PLANTED: MAY 6. DATE HARVESTED: SEPTEMBER 24-27.  
PLOT SIZE: 1 ROW, 30' X 36"  
FERTILIZER APPLIED: 150-100-100/ACRE BEFORE PLANTING.  
PLANTS PER ACRE FOR PERFECT STAND: R1=14000; R2=20000.  
GROWING CONDITIONS: VERY GOOD.

TABLE 11. CORN PERFORMANCE AT ORANGE, 1964-65

| HYBRID              | YIELD BU/A |            | RELATIVE YIELD |     | PCT WATER   | EAR HT. IN. |
|---------------------|------------|------------|----------------|-----|-------------|-------------|
|                     | R1         | R2         | R1             | R2  |             |             |
| S. STATES 755       | 122        | 122        | 91             | 91  | <u>20.3</u> | <u>36</u>   |
| PIONEER 345A        | 130        | <u>143</u> | 97             | 106 | <u>20.9</u> | <u>39</u>   |
| MUNCY CHIEF H740    | <u>132</u> | <u>143</u> | 98             | 107 | <u>20.9</u> | <u>38</u>   |
| DEKALB XL65         | 127        | <u>147</u> | 94             | 109 | <u>21.1</u> | <u>38</u>   |
| DEKALB 441          | <u>133</u> | <u>146</u> | 99             | 109 | <u>21.3</u> | <u>37</u>   |
| CRIB FILLER 116     | <u>132</u> | <u>146</u> | 98             | 109 | <u>21.3</u> | <u>41</u>   |
| THOMPSON 220        | 122        | 123        | 91             | 91  | <u>21.6</u> | <u>39</u>   |
| S. STATES 820S      | <u>150</u> | <u>149</u> | 112            | 111 | <u>21.6</u> | <u>42</u>   |
| OHIO-MICHIGAN GS761 | <u>136</u> | <u>144</u> | 101            | 107 | <u>21.7</u> | <u>39</u>   |
| KEN-BRED SX20Y      | <u>138</u> | 129        | 103            | 96  | <u>21.9</u> | <u>38</u>   |
| CARPENTER 506       | 113        | 129        | 84             | 96  | <u>21.9</u> | <u>40</u>   |
| PAG 399             | 107        | 138        | 79             | 103 | <u>22.0</u> | <u>38</u>   |
| DEKALB 624          | 129        | 137        | 96             | 102 | <u>22.1</u> | <u>38</u>   |
| ASGROW 100          | 128        | 127        | 95             | 95  | <u>22.3</u> | <u>39</u>   |
| PAG 393             | 113        | <u>145</u> | 84             | 108 | <u>22.4</u> | <u>39</u>   |
| CARPENTER 521       | <u>138</u> | <u>145</u> | 103            | 108 | 22.4        | 41          |
| VPI 648             | <u>136</u> | <u>146</u> | 101            | 109 | 22.4        | 41          |
| DEKALB 824          | <u>134</u> | 128        | 99             | 95  | 22.5        | 41          |
| S. STATES MATOAKA   | <u>137</u> | <u>149</u> | 102            | 111 | 22.5        | <u>39</u>   |
| THOMPSON 101        | 119        | 126        | 89             | 94  | 22.6        | 41          |
| DEKALB 805          | <u>137</u> | 128        | 102            | 95  | 22.7        | <u>37</u>   |
| KEN-BRED E20YA      | 123        | <u>155</u> | 91             | 115 | 22.8        | <u>40</u>   |
| THOMPSON 219        | 128        | <u>139</u> | 95             | 104 | 23.1        | <u>39</u>   |
| CRIB FILLER 66      | <u>143</u> | <u>145</u> | 107            | 108 | 24.0        | <u>41</u>   |
| PIONEER 3304        | <u>139</u> | <u>146</u> | 103            | 109 | 24.2        | <u>43</u>   |
| S. STATES 860       | 129        | 135        | 96             | 101 | 24.4        | 41          |
| TEST MEAN           | 130        | 139        | 97             | 103 | 22.2        | 39          |

TABLE 12. CORN PERFORMANCE AT ORANGE, 1963-64-65

| HYBRID            | YIELD BU/A |            | RELATIVE YIELD |     | PCT WATER   | EAR HT. IN. |
|-------------------|------------|------------|----------------|-----|-------------|-------------|
|                   | R1         | R2         | R1             | R2  |             |             |
| PAG 399           | 113        | 131        | 90             | 105 | <u>22.5</u> | <u>42</u>   |
| PIONEER 345A      | 108        | 125        | 87             | 100 | <u>22.9</u> | <u>42</u>   |
| ASGROW 100        | 109        | 116        | 88             | 93  | <u>24.3</u> | <u>39</u>   |
| S. STATES 820S    | <u>133</u> | <u>138</u> | 107            | 111 | <u>24.7</u> | <u>43</u>   |
| DEKALB 805        | <u>137</u> | <u>140</u> | 110            | 112 | <u>24.8</u> | <u>44</u>   |
| PAG 393           | 110        | 128        | 89             | 103 | <u>24.8</u> | <u>41</u>   |
| THOMPSON 220      | <u>122</u> | <u>135</u> | 98             | 108 | <u>24.9</u> | <u>43</u>   |
| KEN-BRED E20YA    | 115        | <u>141</u> | 93             | 114 | <u>25.2</u> | <u>41</u>   |
| DEKALB XL65       | 102        | 125        | 82             | 101 | 25.3        | <u>40</u>   |
| MUNCY CHIEF SX770 | 116        | 127        | 93             | 102 | 25.3        | <u>41</u>   |
| S. STATES 755     | 111        | 130        | 89             | 105 | 25.3        | 43          |
| KEN-BRED SX20Y    | <u>119</u> | <u>139</u> | 95             | 112 | 25.3        | 44          |
| THOMPSON 101      | 116        | <u>136</u> | 93             | 109 | 25.5        | 43          |
| DEKALB 624        | 110        | 121        | 88             | 97  | 25.6        | 43          |
| S. STATES 860     | <u>122</u> | <u>137</u> | 98             | 110 | 25.7        | 49          |
| VPI 648           | 116        | 125        | 93             | 100 | 26.3        | 43          |
| THOMPSON 219      | 117        | <u>133</u> | 94             | 107 | 26.7        | 44          |
| PIONEER 3304      | 111        | <u>129</u> | 89             | 104 | 27.3        | 44          |
| CRIB FILLER 66    | <u>134</u> | <u>152</u> | 108            | 122 | 27.3        | 45          |
| TEST MEAN         | 117        | 132        | 94             | 106 | 25.2        | 43          |

TABLE 13. CORN PERFORMANCE TEST, BLACKSBURG, VA., 1965

| HYBRID              | YIELD BU/A |            | RELATIVE YIELD |     | PCT STAND | PCT WATER   | PCT ERECT | QUALITY | EAR HT. IN. | LEAF BLIGHT |
|---------------------|------------|------------|----------------|-----|-----------|-------------|-----------|---------|-------------|-------------|
|                     | R1         | R2         | R1             | R2  |           |             |           |         |             |             |
| ASGRW 63138         | 74         | 120        | 50             | 82  | 98        | <u>15.8</u> | 75        | 3.0     | 32          | 4.1         |
| ASGRW H64139        | 104        | 130        | 71             | 89  | 101       | <u>16.3</u> | 87        | 3.9     | 43          | 4.1         |
| PAG 399             | 123        | 145        | 84             | 99  | 91        | <u>16.4</u> | 83        | 3.8     | 45          | 3.5         |
| PICNEER 3414        | 129        | 136        | 88             | 93  | 92        | <u>16.5</u> | 88        | 4.3     | 44          | 3.6         |
| DEKALB XL45         | 116        | 133        | 79             | 91  | 101       | <u>16.5</u> | 81        | 4.3     | 40          | 2.4         |
| PICNEER 3284        | 137        | 156        | 94             | 107 | 95        | <u>16.6</u> | 72        | 4.1     | 48          | 2.4         |
| NCRTHRUP-KING KT626 | <u>145</u> | <u>162</u> | 99             | 111 | 96        | <u>16.7</u> | 89        | 4.6     | 45          | 3.5         |
| PICNEER 345A        | <u>138</u> | 144        | 95             | 99  | 97        | <u>16.8</u> | 78        | 4.1     | 45          | 2.5         |
| DEKALB XL346        | 106        | 136        | 72             | 93  | 100       | <u>16.9</u> | 95        | 3.9     | 39          | 2.4         |
| ASGRW 63120A        | 120        | 148        | 82             | 101 | 95        | <u>17.0</u> | 83        | 4.4     | 47          | 3.3         |
| MUNCY CHIEF H630    | 108        | 117        | 74             | 80  | 100       | <u>17.1</u> | 67        | 4.0     | 39          | 3.5         |
| PAG SX29            | <u>139</u> | 138        | 95             | 95  | 80        | <u>17.1</u> | 86        | 4.3     | 49          | 4.1         |
| NCRTHRUP-KING PX610 | 127        | <u>160</u> | 87             | 109 | 100       | <u>17.2</u> | 81        | 4.4     | 46          | 3.9         |
| THCMPSCN 220        | <u>146</u> | <u>162</u> | 100            | 111 | 95        | <u>17.3</u> | 90        | 4.5     | 46          | 4.4         |
| NCRTHRUP-KING PX616 | 125        | <u>163</u> | 85             | 111 | 96        | <u>17.5</u> | 85        | 4.4     | 46          | 3.0         |
| MC NAIR 6437        | 119        | 133        | 81             | 91  | 94        | <u>17.6</u> | 89        | 4.3     | 43          | 2.5         |
| ASGRW 63104         | <u>138</u> | 149        | 94             | 102 | 97        | <u>17.6</u> | 88        | 4.4     | 44          | 3.8         |
| PAG 393             | 132        | 143        | 91             | 98  | 93        | <u>17.7</u> | 90        | 4.5     | 44          | 3.8         |
| CRIB FILLER 40      | 129        | 150        | 88             | 103 | 97        | <u>17.7</u> | 88        | 4.0     | 44          | 3.3         |
| S. STATES 755       | <u>140</u> | 154        | 96             | 105 | 95        | <u>17.7</u> | 87        | 4.3     | 44          | 3.8         |
| NCRTHRUP-KING PX78  | <u>151</u> | <u>167</u> | 103            | 115 | 101       | <u>17.8</u> | 86        | 4.1     | 46          | 2.6         |
| DEKALB XL341        | 105        | <u>159</u> | 72             | 108 | 99        | <u>17.8</u> | 91        | 3.8     | 43          | 3.1         |
| NCRTHRUP-KING PX66  | 127        | 143        | 87             | 98  | 94        | <u>17.8</u> | 70        | 3.6     | 47          | 4.0         |
| MC NAIR 5210        | 111        | 146        | 76             | 100 | 95        | <u>17.8</u> | 88        | 4.3     | 46          | 3.9         |
| ASGRW 100           | 130        | 145        | 89             | 99  | 93        | <u>17.9</u> | 82        | 4.6     | 43          | 3.6         |
| MC NAIR 6439        | 129        | 149        | 88             | 102 | 97        | <u>17.9</u> | 92        | 4.1     | 43          | 3.3         |
| MUNCY CHIEF SX880   | <u>158</u> | <u>157</u> | 108            | 108 | 98        | <u>18.1</u> | 89        | 4.6     | 48          | 2.4         |
| VA 478              | 137        | <u>171</u> | 94             | 117 | 90        | <u>18.3</u> | 98        | 4.3     | 46          | 3.5         |
| DEKALB 805          | <u>165</u> | <u>167</u> | 113            | 115 | 92        | <u>18.4</u> | 93        | 4.5     | 48          | 3.1         |
| DEKALB 624          | 126        | 132        | 86             | 90  | 97        | <u>18.4</u> | 79        | 4.5     | 46          | 2.9         |
| DEKALB 822          | 124        | 139        | 85             | 95  | 96        | <u>18.4</u> | 82        | 4.1     | 46          | 2.3         |
| MUNCY CHIEF SX770   | 136        | 153        | 93             | 105 | 86        | <u>18.6</u> | 79        | 4.6     | 45          | 3.1         |
| HCLLYVIEW 160       | <u>186</u> | <u>187</u> | 127            | 128 | 89        | <u>18.7</u> | 83        | 4.3     | 54          | 2.1         |
| T-E CRCPMASTER      | <u>158</u> | <u>164</u> | 108            | 113 | 98        | <u>18.7</u> | 92        | 4.9     | 47          | 3.1         |
| S. STATES 860       | <u>140</u> | <u>167</u> | 96             | 115 | 93        | <u>18.8</u> | 67        | 4.5     | 51          | 3.1         |
| VA 423              | <u>153</u> | <u>170</u> | 105            | 117 | 101       | 18.8        | 97        | 3.9     | 44          | 3.5         |
| PICNEER 3304        | 120        | 153        | 82             | 105 | 85        | 18.8        | 76        | 5.0     | 46          | 2.9         |
| ASGRW SP6           | <u>161</u> | <u>168</u> | 110            | 115 | 92        | 18.9        | 93        | 4.6     | 47          | 3.5         |
| VA 286              | 132        | 151        | 90             | 103 | 86        | 19.0        | 95        | 4.5     | 46          | 2.3         |
| S. STATES 820S      | <u>171</u> | <u>172</u> | 117            | 118 | 95        | 19.0        | 88        | 5.0     | 48          | 3.4         |
| VPI 646             | <u>157</u> | <u>160</u> | 107            | 110 | 94        | 19.0        | 83        | 4.3     | 47          | 3.8         |
| DEKALB XL65         | 117        | <u>158</u> | 80             | 108 | 89        | 19.0        | 85        | 3.6     | 43          | 3.4         |
| MC NAIR X200        | 144        | <u>172</u> | 99             | 118 | 95        | 19.1        | 78        | 4.6     | 50          | 3.1         |
| ASGRW 110           | <u>139</u> | 140        | 95             | 96  | 98        | 19.2        | 83        | 4.1     | 45          | 4.3         |
| VA 507              | 124        | 130        | 85             | 89  | 97        | 19.3        | 96        | 4.5     | 38          | 4.3         |
| KEN-BRED SX20Y      | <u>146</u> | <u>171</u> | 100            | 117 | 101       | 19.3        | 76        | 4.8     | 50          | 3.9         |
| KEN-BRED E20YA      | 130        | <u>165</u> | 89             | 113 | 95        | 19.3        | 76        | 4.3     | 47          | 1.8         |
| PICNEER 3369        | <u>163</u> | <u>162</u> | 111            | 111 | 98        | 19.4        | 90        | 4.9     | 44          | 3.5         |
| VPI 648             | 133        | <u>145</u> | 91             | 99  | 96        | 19.7        | 72        | 4.4     | 47          | 3.4         |
| PICNEER 3306        | <u>162</u> | <u>184</u> | 111            | 126 | 96        | 19.7        | 90        | 4.6     | 45          | 3.3         |
| MUNCY CHIEF H750    | 119        | 137        | 81             | 93  | 93        | 19.7        | 73        | 4.8     | 42          | 2.6         |
| DEKALB XL385        | <u>164</u> | <u>186</u> | 112            | 128 | 103       | 19.9        | 88        | 4.9     | 52          | 4.4         |
| THCMPSCN 101        | <u>145</u> | <u>166</u> | 99             | 113 | 98        | 19.9        | 84        | 4.4     | 49          | 4.3         |
| THCMPSCN 219        | <u>141</u> | <u>163</u> | 97             | 112 | 95        | 19.9        | 69        | 4.5     | 47          | 3.0         |
| T-E E20YE           | <u>143</u> | <u>154</u> | 98             | 106 | 100       | 20.0        | 87        | 4.8     | 51          | 2.6         |
| VA 422              | 135        | <u>180</u> | 92             | 123 | 96        | 20.0        | 90        | 4.4     | 47          | 3.3         |
| VA 420              | <u>148</u> | <u>171</u> | 101            | 117 | 95        | 20.0        | 88        | 4.3     | 50          | 4.3         |
| ASGRW 302           | <u>144</u> | 139        | 98             | 95  | 100       | 20.1        | 66        | 4.1     | 52          | 3.6         |
| VA 457              | 116        | 139        | 79             | 95  | 100       | 20.1        | 89        | 4.1     | 40          | 4.1         |
| MC NAIR 225W        | <u>147</u> | <u>158</u> | 101            | 108 | 96        | 20.1        | 82        | 4.8     | 50          | 3.4         |
| VA 426              | <u>146</u> | <u>169</u> | 100            | 116 | 96        | 20.3        | 95        | 4.6     | 46          | 2.0         |
| HOLLYVIEW 711W      | <u>166</u> | <u>169</u> | 114            | 116 | 99        | 20.8        | 82        | 4.9     | 52          | 3.6         |
| S. STATES 909E      | <u>154</u> | <u>203</u> | 105            | 139 | 96        | 20.9        | 84        | 4.6     | 65          | 3.8         |
| CRIB FILLER 66      | <u>160</u> | <u>190</u> | 110            | 130 | 97        | 21.1        | 97        | 5.0     | 48          | 3.1         |
| TEST MEAN           | 137        | 155        | 94             | 106 | 96        | 18.5        | 84        | 4.4     | 46          | 3.3         |

DATE PLANTED: MAY 4. DATE HARVESTED: OCTOBER 12-13.

PLOT SIZE: 1 ROW, 30' X 38".

FERTILIZER APPLIED: 20-50-100/ACRE BEFORE PLANTING,  
100 LBS. N/A WITH ATRAZINE, PREEMERGENCE. AND  
50 LBS. N/A SIDEDRESSED.

PLANTS PER ACRE FOR PERFECT STAND: R1=L4000; R2=20000.

GROWING CONDITIONS: EXCELLENT THROUGHOUT.

TABLE 14. CORN PERFORMANCE TEST, EMORY, VA., 1965

| HYBRID              | YIELD BU/A |            | RELATIVE YIELD |     | PCT STAND | PCT WATER   | PCT EXCCT | DAYS TU SILK | EAR HT. IN. |
|---------------------|------------|------------|----------------|-----|-----------|-------------|-----------|--------------|-------------|
|                     | R1         | R2         | R1             | R2  |           |             |           |              |             |
| ASGROW H64139       | 90         | 117        | 67             | 87  | 93        | <u>21.1</u> | 88        | 0            | 46          |
| PAG SX29            | 124        | 140        | 92             | 104 | 74        | <u>21.4</u> | 98        | 0            | 48          |
| MUNCY CHIEF H720    | 108        | 135        | 80             | 100 | 84        | <u>21.6</u> | 83        | 0            | 52          |
| PIONEER 345A        | <u>117</u> | 142        | 101            | 105 | 92        | <u>21.6</u> | 65        | 0            | 54          |
| ASGROW H64141       | 109        | 139        | 81             | 103 | 90        | <u>21.7</u> | 96        | 0            | 51          |
| DEKALB XL45         | 101        | 132        | 74             | 97  | 86        | <u>21.7</u> | 93        | 0            | 39          |
| DEKALB 805          | <u>142</u> | <u>158</u> | 105            | 117 | 92        | <u>21.7</u> | 83        | 0            | 52          |
| MC NAIR 6437        | 119        | 135        | 88             | 100 | 91        | <u>21.8</u> | 94        | 0            | 48          |
| NORTHRUP-KING PX66  | 127        | 142        | 94             | 105 | 94        | <u>22.1</u> | 85        | 0            | 46          |
| THOMPSON 220        | <u>129</u> | 126        | 95             | 93  | 91        | <u>22.1</u> | 87        | 0            | 54          |
| MC NAIR S210        | 124        | 140        | 92             | 104 | 87        | <u>22.2</u> | 88        | 0            | 51          |
| DEKALB XL346        | 112        | 135        | 83             | 100 | 91        | <u>22.2</u> | 96        | 0            | 43          |
| DEKALB XL65         | <u>136</u> | <u>156</u> | 100            | 116 | 94        | <u>22.2</u> | 92        | 0            | 57          |
| VA 507              | 123        | 134        | 91             | 99  | 94        | <u>22.3</u> | 98        | 0            | 44          |
| MUNCY CHIEF SX880   | <u>133</u> | 141        | 98             | 104 | 79        | <u>22.3</u> | 94        | 0            | 54          |
| ASGROW SM6          | <u>130</u> | <u>161</u> | 111            | 119 | 94        | <u>22.4</u> | 95        | 0            | 57          |
| MUNCY CHIEF H740    | 126        | 143        | 93             | 106 | 89        | <u>22.4</u> | 92        | 0            | 51          |
| STULL 807YSX        | <u>132</u> | <u>161</u> | 112            | 120 | 94        | <u>22.4</u> | 91        | 0            | 58          |
| T-E E20YB           | 123        | <u>148</u> | 91             | 109 | 84        | <u>22.4</u> | 92        | 0            | 49          |
| PAG 393             | 118        | 128        | 87             | 95  | 86        | <u>22.4</u> | 92        | 0            | 48          |
| MUNCY CHIEF SX770   | <u>132</u> | <u>158</u> | 98             | 117 | 83        | <u>22.4</u> | 93        | 0            | 51          |
| PAG 399             | 119        | 143        | 88             | 106 | 88        | <u>22.4</u> | 93        | 0            | 52          |
| NORTHRUP-KING PX610 | 125        | <u>156</u> | 92             | 115 | 90        | <u>22.5</u> | 95        | 0            | 48          |
| DEKALB 822          | 111        | 132        | 82             | 98  | 87        | <u>22.5</u> | 88        | 0            | 49          |
| HOLLYVIEW 160       | <u>130</u> | <u>159</u> | 96             | 118 | 85        | <u>22.5</u> | 87        | 0            | 69          |
| ASGROW 110          | 117        | <u>147</u> | 87             | 109 | 88        | <u>22.5</u> | 91        | 0            | 50          |
| S.STATES 820S       | <u>141</u> | <u>157</u> | 104            | 116 | 92        | <u>22.6</u> | 89        | 0            | 56          |
| MC NAIR 225W        | 110        | 132        | 81             | 97  | 83        | <u>22.6</u> | 91        | 0            | 57          |
| ASGROW 63104        | 111        | 129        | 82             | 95  | 86        | <u>22.6</u> | 89        | 0            | 49          |
| DEKALB 624          | <u>130</u> | <u>148</u> | 96             | 110 | 89        | <u>22.7</u> | 97        | 0            | 53          |
| KEN-BRED E20YA      | 124        | <u>157</u> | 91             | 116 | 91        | <u>22.7</u> | 91        | 0            | 58          |
| NORTHRUP-KING KT626 | <u>143</u> | <u>147</u> | 106            | 109 | 90        | <u>22.7</u> | 91        | 0            | 50          |
| KEN-BRED SX20Y      | <u>140</u> | <u>150</u> | 104            | 111 | 91        | <u>22.8</u> | 89        | 0            | 58          |
| S.STATES 755        | <u>131</u> | 135        | 97             | 100 | 91        | <u>22.8</u> | 79        | 0            | 59          |
| STULL 101YB         | <u>143</u> | <u>159</u> | 106            | 118 | 96        | <u>22.9</u> | 89        | 0            | 54          |
| S.STATES MATUAKA    | <u>137</u> | <u>156</u> | 102            | 115 | 92        | <u>22.9</u> | 92        | 0            | 58          |
| ASGROW 100          | 119        | 124        | 88             | 92  | 85        | 23.0        | 86        | 0            | 54          |
| DEKALB XL385        | <u>138</u> | <u>148</u> | 102            | 110 | 95        | 23.1        | 92        | 0            | 66          |
| VA 422              | 125        | 136        | 92             | 100 | 93        | 23.1        | 95        | 0            | 55          |
| STULL 400WA         | <u>128</u> | 130        | 95             | 96  | 92        | 23.2        | 94        | 0            | 58          |
| VPI 646             | <u>135</u> | <u>145</u> | 100            | 108 | 93        | 23.2        | 94        | 0            | 54          |
| MC NAIR 6439        | 125        | 137        | 92             | 102 | 97        | 23.2        | 93        | 0            | 52          |
| NORTHRUP-KING PX616 | <u>142</u> | <u>156</u> | 105            | 115 | 93        | 23.3        | 87        | 0            | 54          |
| THOMPSON 219        | 118        | <u>153</u> | 88             | 113 | 91        | 23.3        | 85        | 0            | 63          |
| MC NAIR X200        | <u>139</u> | 140        | 103            | 104 | 87        | 23.3        | 92        | 0            | 59          |
| VA 286              | 122        | 133        | 91             | 98  | 83        | 23.4        | 95        | 0            | 51          |
| VPI 648             | <u>134</u> | 138        | 99             | 102 | 93        | 23.4        | 94        | 0            | 63          |
| PIONEER 312A        | 127        | <u>146</u> | 94             | 108 | 89        | 23.4        | 94        | 0            | 54          |
| VA 423              | <u>133</u> | <u>156</u> | 98             | 116 | 88        | 23.4        | 97        | 0            | 56          |
| VA 478              | 110        | 128        | 82             | 95  | 88        | 23.5        | 95        | 0            | 48          |
| S.STATES 860        | <u>137</u> | <u>147</u> | 102            | 109 | 98        | 23.6        | 83        | 0            | 61          |
| VA 420              | <u>146</u> | <u>160</u> | 108            | 119 | 96        | 23.6        | 89        | 0            | 60          |
| T-E CROPMASTER      | <u>133</u> | <u>146</u> | 113            | 108 | 90        | 23.7        | 81        | 0            | 52          |
| STULL 100YB         | 133        | <u>164</u> | 98             | 122 | 86        | 23.7        | 77        | 0            | 62          |
| PIONEER 3304        | 112        | <u>155</u> | 83             | 115 | 85        | 23.8        | 90        | 0            | 57          |
| VA 426              | 125        | <u>150</u> | 93             | 111 | 88        | 23.8        | 95        | 0            | 55          |
| S.STATES 909E       | 125        | <u>140</u> | 93             | 104 | 98        | 23.9        | 94        | 0            | 76          |
| VA 457              | 113        | 134        | 84             | 99  | 88        | 23.9        | 95        | 0            | 44          |
| THOMPSON 101        | 119        | 121        | 88             | 90  | 94        | 24.0        | 91        | 0            | 59          |
| PIONEER 310         | <u>138</u> | 143        | 102            | 106 | 97        | 24.1        | 96        | 0            | 63          |
| ASGROW 64116        | <u>139</u> | <u>158</u> | 103            | 117 | 85        | 24.9        | 81        | 0            | 68          |
| HOLLYVIEW 711W      | 121        | <u>154</u> | 90             | 114 | 83        | 25.0        | 93        | 0            | 64          |
| ASGROW 302          | 123        | 124        | 91             | 92  | 93        | 26.2        | 86        | 0            | 71          |
| PIONEER 309A        | 107        | 138        | 79             | 102 | 90        | 26.5        | 98        | 0            | 69          |
| TEST MEAN           | 127        | 143        | 94             | 106 | 90        | 23.0        | 90        | 0            | 55          |

COOPERATOR: F.S. MCCLAUGHERTY, SOUTHWEST VIRGINIA RESEARCH STATION, EMORY.  
DATE PLANTED: MAY 10. DATE HARVESTED: OCTOBER 14-15.  
PLOT SIZE: 2 ROWS, 16' X 36".  
FERTILIZER APPLIED: 96-96-96 BEFORE PLANTING.  
PLANTS PER ACRE FOR PERFECT STAND: R1=16000; R2=22000.  
GROWING CONDITIONS: EXCELLENT.

TABLE 15. CORN PERFORMANCE AT EMORY, 1964-65

| HYBRID            | YIELD BU/A |            | RELATIVE YIELD |     | PCT WATER   | QUALITY    | EAR HT. IN. |
|-------------------|------------|------------|----------------|-----|-------------|------------|-------------|
|                   | R1         | R2         | R1             | R2  |             |            |             |
| PIONEER 345A      | <u>126</u> | 116        | 101            | 93  | <u>23.0</u> | 3.4        | <u>44</u>   |
| DEKALB XL65       | <u>124</u> | <u>150</u> | 99             | 120 | <u>23.8</u> | <u>4.1</u> | <u>46</u>   |
| MUNCY CHIEF SX770 | <u>126</u> | <u>140</u> | 100            | 112 | <u>23.9</u> | <u>4.1</u> | <u>44</u>   |
| PAG 393           | <u>111</u> | <u>137</u> | 88             | 109 | <u>24.0</u> | <u>3.6</u> | <u>46</u>   |
| KEN-BRED SX20Y    | <u>125</u> | <u>123</u> | 100            | 98  | <u>24.4</u> | <u>4.0</u> | <u>50</u>   |
| MUNCY CHIEF H740  | <u>124</u> | 132        | 99             | 106 | <u>24.5</u> | <u>3.6</u> | <u>42</u>   |
| KEN-BRED E20YA    | <u>120</u> | <u>145</u> | 96             | 116 | <u>24.8</u> | <u>4.0</u> | <u>55</u>   |
| S.STATES 820S     | <u>130</u> | <u>130</u> | 104            | 104 | <u>25.0</u> | <u>4.1</u> | <u>49</u>   |
| ASGROW 100        | <u>107</u> | 121        | 86             | 97  | <u>25.0</u> | <u>3.1</u> | <u>46</u>   |
| S.STATES MATOAKA  | <u>122</u> | 119        | 98             | 95  | <u>25.1</u> | <u>3.9</u> | <u>51</u>   |
| THOMPSON 220      | 106        | 125        | 85             | 100 | 25.1        | 3.0        | <u>44</u>   |
| PAG 399           | 109        | <u>142</u> | 88             | 114 | 25.1        | 3.3        | <u>42</u>   |
| DEKALB 624        | <u>121</u> | <u>141</u> | 97             | 113 | 25.1        | <u>3.7</u> | <u>45</u>   |
| S.STATES 755      | 111        | <u>133</u> | 88             | 106 | 25.5        | <u>3.8</u> | <u>50</u>   |
| DEKALB 805        | <u>123</u> | <u>125</u> | 98             | 100 | 25.5        | <u>3.3</u> | <u>44</u>   |
| STULL 101YB       | 114        | 128        | 91             | 103 | 25.7        | 3.4        | <u>43</u>   |
| THOMPSON 219      | 105        | <u>133</u> | 84             | 106 | 26.1        | 3.0        | <u>52</u>   |
| S.STATES 860      | <u>122</u> | <u>143</u> | 98             | 114 | 26.1        | <u>3.6</u> | <u>54</u>   |
| STULL 807YSX      | <u>126</u> | 126        | 101            | 101 | 26.1        | <u>3.7</u> | <u>49</u>   |
| VPI 648           | <u>120</u> | 118        | 96             | 94  | 26.2        | <u>3.1</u> | <u>51</u>   |
| THOMPSON 101      | 117        | 126        | 93             | 101 | 26.4        | 3.0        | <u>48</u>   |
| PIONEER 3304      | 115        | <u>142</u> | 92             | 113 | 26.5        | <u>4.1</u> | <u>51</u>   |
| TEST MEAN         | 118        | 132        | 95             | 105 | 25.1        | 3.6        | <u>48</u>   |

TABLE 16. CORN PERFORMANCE AT EMORY, 1963-64-65

| HYBRID           | YIELD BU/A |            | RELATIVE YIELD |     | PCT WATER   | QUALITY    | EAR HT. IN. |
|------------------|------------|------------|----------------|-----|-------------|------------|-------------|
|                  | R1         | R2         | R1             | R2  |             |            |             |
| PIONEER 345A     | <u>119</u> | 103        | 104            | 91  | <u>22.3</u> | 3.0        | <u>43</u>   |
| DEKALB 624       | <u>113</u> | <u>127</u> | 99             | 111 | <u>24.3</u> | <u>3.5</u> | <u>43</u>   |
| S.STATES MATOAKA | <u>112</u> | 112        | 98             | 98  | <u>24.5</u> | <u>3.6</u> | <u>49</u>   |
| THOMPSON 220     | 100        | 116        | 88             | 102 | <u>24.8</u> | 2.8        | <u>44</u>   |
| DEKALB 805       | <u>117</u> | <u>118</u> | 102            | 104 | <u>24.8</u> | 3.1        | <u>44</u>   |
| VPI 648          | 111        | 110        | 97             | 96  | 25.9        | 2.8        | <u>49</u>   |
| THOMPSON 101     | 109        | <u>119</u> | 96             | 105 | 26.1        | 3.0        | <u>48</u>   |
| KEN-BRED E20YA   | 105        | <u>124</u> | 92             | 109 | 26.2        | <u>3.3</u> | <u>53</u>   |
| PIONEER 3304     | 109        | <u>127</u> | 96             | 111 | 26.5        | <u>3.7</u> | <u>49</u>   |
| TEST MEAN        | 111        | 117        | 97             | 103 | 25.0        | 3.2        | <u>47</u>   |