RESULTS OF THE

KENTUCKY HYBRID CORN PERFORMANCE TEST - 1967

By C.R.Tutt and C.R.Chaplin * Progress Report 172 * January 1968

UNIVERSITY OF KENTUCKY

AGRICULTURAL EXPERIMENT STATION

DEPARTMENT OF AGRONOMY

Lexington

TESTING LOCATIONS OF

THE KENTUCKY HYBRID CORN PERFORMANCE TEST



| Area | Location | Cooperator |
|-----------|--------------|--|
| Non-Virus | 1. Princeton | West. Ky. Substation |
| П | 2. Hartford | Walter & Earl Campbell John M. Kavanaugh, Area Extension Agent |
| II . | 3. Lexington | Ky. Agr. Exp. Sta. |
| Virus | 4. Frankfort | Mason & Ralph Bates |

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RESULTS OF THE KENTUCKY HYBRID CORN PERFORMANCE TEST IN 1967

Charles R. Tutt and Charles R. Chaplin $\frac{1}{2}$

The objective of the Kentucky Hybrid Corn Performance Test is to provide an unbiased estimate of the relative performance of corn hybrids being sold in Kentucky. This information may be used by farmers, seedsmen, and research and extension personnel to determine which hybrid most nearly possesses the characteristics which are desired or required for a specific situation. The need for this information is indicated by the change in hybrids being purchased by Kentucky farmers, the large number of hybrids which are available, and the economic importance of corn to Kentucky agriculture.

Kentucky farmers established a record yield of 80 bushels per acre in 1967. The previous record yield was 69 bushels established in 1965. The 1967 yield was 21 bushels above that in 1966 and 19 bushels above the five-year average 1961-65. The total corn production in 1967 was 95,200,000 bushels and was up 46 percent above 1966. This is second only to the record production of 95,240,000 bushels produced in 1948. In 1948, however, the crop was harvested from 2,381,000 acres and yielded only 40 bushels per acre.

The 1967 growing season was unusually cool and wet. Corn planting began in mid-April, but owing to the abundant rainfall during May, planting was 7-10 days behind normal by June 1. Growth of early planted corn was slowed by cool, wet weather and some replanting was necessary because of poor stands and flooding of river bottoms. Excessive water damaged late-planted corn in low areas.

Soil moisture throughout the growing season ranged from ample to excessive for most parts of the state resulting in the development of an excellent corn crop. A cool, wet autumn delayed maturity of the crop and by November 1 corn harvest was only 51 percent complete as compared with 75 percent normally.

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EXPERIMENTAL METHODS

The performance test was conducted at four locations in the state. The locations together with the names of the cooperators are listed on page 2. The testing sites are grouped according to the presence or absence of the corn virus, maize dwarf mosaic. The virus was present at Frankfort, but was not present at Princeton, Hartford or Lexington.

Forty-two hybrids which are available to the farmers of Kentucky through commercial trade channels were compared. These hybrids, developed by state and federal research agencies and by private seed companies, are listed in Tables 1 and 2. Information is presented concerning the seed source of the hybrid, the kernel color and the type of cross. The type of hybrid is designated as follows: double cross 4X; three-way cross 3X; and a single cross 2X. The following material was evaluated in 1967, 18 double crosses, 2 three-way crosses, 21 single crosses, and one special cross.

Rainfall and temperature data for the testing locations are presented in Tables 3 and 4 respectively. Agronomic information pertaining to the testing locations is shown in Table 5. Table 6 presents the treatment average of all hybrids for various groups. Results of the Kentucky Hybrid Corn Performance Test are summarized for periods of 3 years, 2 years and one year under nonvirus conditions and are presented in Tables 7-9, respectively. Results of the 3-year, 2-year and one-year test under virus conditions are presented in Tables 10-12. The hybrids in Tables 7-9 are grouped on the basis of kernel color. Within groups, the hybrids are listed in order of increasing moisture content. The hybrids in Tables 10-12 are arranged in order of decreasing M.D.M. virus resistance. The 2-year and one-year combinations are presented in Tables 13 and 14.

Field Design

Each hybrid was planted in eight plots at Princeton, Hartford and Lexington, and on four plots at Frankfort. Corn was hand planted, simulating hill dropping. All tests were planted at an increased rate, and the resulting plants were thinned to the desired stand at each location. Each hybrid was planted at two levels of nitrogen fertility (100 pounds and 200 pounds of actual nitrogen per acre) at Princeton, Hartford and Lexington. Two plant populations, 17,424 and 23,232, were used at each nitrogen level.

Yield

The corn from each plot was harvested and weighed individually. The yields were determined and are reported as bushels of shelled corn per acre with a moisture content of 15.5 percent.

Moisture

The moisture content at harvest is the best present measure of relative maturity of hybrids. A hybrid may be considered to be earlier than a second hybrid if its moisture content at harvest is consistently lower. Maturity thus determined is not absolute but is relative to the hybrid being compared.

Moisture samples were taken on an individual plot basis, and moisture was determined on each hybrid at each location.

Erect Plants

The percentage of erect plants is considered to be an estimate of the resistance of a hybrid to the total insect and disease complex affecting standing ability. This value is obtained by counting plants with stalks broken between the ear-bearing node and the ground level and those which lean from the base at an angle of more than 30 degrees from the vertical. This sum is subtracted from the plants present and the differences divided by the total plants to give the percentage of erect plants.

Ear Height

Ear height, the distance from the base of the plant to the point of attachment of the upper ear, was measured visually using a scale with one-foot intervals. Visual ratings were taken on each plot of each hybrid at each location.

Disease

Visual ratings of hybrid reaction to corn virus were taken at Augusta and Vanceburg in 1965, at Vanceburg in 1966 and at Frankfort in 1967. Present indications are that the only virus present in Kentucky is maize dwarf mosaic. All plants of each hybrid were rated shortly after silking on a 1-9 scale, with 1 being resistant and 9 being extremely susceptible.

INTERPRETATIONS

It should be kept in mind that test plot yields will tend to exceed those of commercial plantings because test plots usually receive more careful culture than do commercial fields. Also desired stands were obtained by over-planting and plots were picked by hand which reduced harvest loss.

The performance of a hybrid may vary considerably from year to year and between locations for a given year. Because of this variability, test results for a single year or for a single location are not as valuable in choosing a hybrid as are the average results for several years and for several locations.

Small differences in yield are usually of little importance. However, when a hybrid is consistently superior over several years of testing the chances are good that the differences are real and should be considered in choosing a hybrid. Factors other than yield, such as moisture content, plant lodging and ear height, should also be considered. The reader must form his own opinion as to how much weight to give each character other than yield because it is seldom that one hybrid is distinctly superior to all others for each of the characteristics studied.

Only tentative conclusions can be drawn from the plant population-nitrogen combinations presented in Tables 13 and 14 since data are from only two and one year of testing respectively. The low two-year average of the high nitrogen-plant population combination was caused by the low yield of the Hartford plots in 1966. This may have been caused by drought conditions and lack

of uniformity of soil conditions within plots. Care should be taken in making comparisons between nitrogen-plant population combinations since the tests were not designed for making such comparisons. Comparisons between the combinations would be similar to test strips a farmer might plant for himself. Several additional years of data on these various combinations should prove quite useful in selecting hybrids to grow under specific management conditions.

The best hybrid to grow is the one which best suits the individual farm and farming operation. For this reason it is suggested that a new hybrid be grown frequently on a trial basis in comparison with the hybrid presently grown. New hybrids should be grown on a limited acreage for evaluation before being grown on large acreage. It is important to keep in mind that two hybrids should be compared only when they are grown in the same field in the same year using identical management practices. A good way to do this is to plant seed of the new hybrid beside currently used hybrids in a field being sure to mark them at planting time. important to observe the hybrids frequently during the growing season. At harvest, yield should be determined and other observational notes recorded. By doing this, a grower can come to a sound decision as to which hybrid best fulfills his need.

MAIZE DWARF MOSAIC

Corn growers in areas where maize dwarf mosaic (M.D.M.) virus has been identified should take special precautions in selecting hybrids. This disease severely reduced yield and stalk strength. It appears to be associated with Johnsongrass in which it is believed to overwinter. It is then transferred back to the corn plant in the spring by an insect vector, possibly an aphid. Where the disease is known or suspected to be present, only M.D.M. resistant hybrids should be planted.

Table 1. Hybrids Tested in 1967

| Crib Fille | 60 66 105 123 | Y Y Y | 2X 2X | Mitchell Farms |
|------------|------------------------|-------------|---------------------|-------------------------|
| | 60 66 105 123 | Y Y | | |
| | 66 105 123 | Y | | Windfall, Ind. |
| | 105 123 | | 2X | |
| | 123 | Y | 2X | |
| | | | 4X | |
| | 100 | Y | | |
| | 128 | Y | 4X | |
| | 183W | W | 4 X | |
| Ken-Bred | E20YA | Y | 4 X | Golden Acre Hybrids |
| | M20W | W | 4X | Taylor Evans Seed Co. |
| | Sx2UY | Y | 2X | Tulia, Texas |
| | VR20Y | Y | 4X | |
| T-E Bonus | | Y | 2X | |
| V., 105 | | Y | 4x | University of Kentucky |
| Ку 105 | | W | 4X | Agricultural Experiment |
| 5921W | | W | TA | Station, Lexington, Ky. |
| | . 7 | | /. v | Meacham's Hybrids |
| Meacham's | | W | 4X | |
| | MX75W | W | 2X | Route 3, Morganfield, K |
| Pioneer | 3196 | Y | 2X | Pioneer Corn Co., Inc. |
| | 3306 | Y | 2X | Tipton, Ind. |
| | 3369 | Y | 2X | |
| Princeton | 920A | W | 4x | Princeton Farms |
| LLINCCLON | 990A | W | 4X | Princeton, Ind. |
| | SX 606 | Y | 2X | |
| | SX 803 | Y | 2X | |
| | | | 2X | |
| | SX 804 | Y | | |
| | SX809 | Y | 2X | |
| Schenk | s-96W | W | 4 X | Charles H. Schenk and |
| | SS-X75 | Y | 3X | Son, Inc. Route 4 |
| | SS-77A | Y | 3X | Vincennes, Ind. |
| Southern | States | | | |
| | SS 820S | Y | 2X | Southern States Coop., |
| | SS 860 | Y | 4X | Division of Seed and Fa |
| | SS 866 | Y | 4X | Supply, Richmond, Va. |
| | SS 909E | Y | 4X | |
| | | | 4X | |
| | SS 935W | W | | |
| SI | SS 720SP Matoaka | Y Y | Special Cross 4X | |
| | | | | |
| Stewart (| | | | Stewart Hybrids, Inc. |
| | SX 47 | Y | 2X | Route 1, Princeville, |
| | SX 77 | Y | 2X | |

Table 1 (continued)

| Hybrid | Color | Cross | Source of Hybrids |
|------------|-------|-------|--------------------------|
| Stulls 707 | Y | 2X | Stull Brothers, Inc. |
| 800 W | W | 2X | Sebree, Ky. |
| 807 A | Y | 2X | |
| 807 | Y | 2X | |
| US 523W | W | 4X | Experiment Station(USDA) |

Table 2. Pedigrees of Experiment Station and U. S. Hybrids Tested in 1967

| Hybrid | Color | Cross | Pedigree |
|----------|-------|-------|--------------------------------|
| Ку 105 | Y | 4X | (T8 X CI21E) (38-11 X Oh 7B) |
| Ky 5921W | W | 4X | (CI64 X 33-16) (Ky 201 X CI66) |
| US 523W | W | 4X | (K55 X K64) (Ky 27 X Ky 49) |

Table 3. 1967 Rainfall Departure from Normal

| | May | June | July | Aug | Sept | Total |
|-----------|-------|-------|-------|-------|-------|-------|
| Princeton | +2.59 | +0.08 | +1.93 | -1.07 | -0.52 | +3.01 |
| Lexington | +3.09 | -2.07 | +1.89 | +0.42 | +0.17 | +3.30 |
| Frankfort | +1.67 | -1.58 | -0.14 | -1.05 | -0.98 | -2.08 |

Table 4. 1967 Temperature Departure from Normal

| | May | June | July | Aug | Sept | Average |
|-----------|------|------|------|------|------|---------|
| Princeton | -2.3 | -1.5 | -5.1 | -6.6 | -4.4 | -4.0 |
| Lexington | -2.5 | -1.5 | -4.9 | -5.4 | -4.4 | -3.7 |
| Frankfort | -4.3 | -2.4 | -4.8 | -5.4 | -5.4 | -4.5 |
| | | | | | | |

Table 5. Agronomic Information Pertaining to Testing Locations in 1967

| Location | Fertilizer Applied | Per Acre | Date Planted | Date Harvested | Average Yield Bushel Moist | Moisture |
|--------------|---|---------------|-----------------|-------------------|----------------------------|--------------|
| 1. Princeton | 300# NH, NO 300# Muriate | 17,424 23,232 | May 12 | Oct.17 | 105.3 | 24.1 22.9 |
| | 600#NH4NO3 300# Muriate | 17,424 23,232 | May 12 | Oct. 17 | 108.8 | 24.1 23.4 |
| 2. Hartford | 120#Anhydrous Ammonia 100#Superphosphate 260# Muriate | 17,424 23,232 | May 25 | Oct.30 | 98.7 | 22.5 |
| | 240#Anhydrous Ammonia 100#Superphosphate 260# Muriate | 17,424 23,232 | May 25 | Oct.30 | 122.3 | 22.7 |
| 3. Lexington | 400# NH ₄ NO ₃ 166# Muriate | 17,424 23,232 | May 10 | Oct. 20 | 114.4 | 23.3 |
| | 600# NH4NO3 166# Muriate | 17,424 23,232 | May 23 | Oct. 16 | 110.9 | 21.7 21.3 |
| 4. Frankfort | 400# NH4NO3 100# Muriate | 17,424 | May 25 | Oct. 28 | 60.3 | 21.7 |

Table 6. Treatment Summary of Hybrid Groups in 1967

| | | AVE | rage Aci | re Yield | Average Acre Yield in Bushels | | | | |
|--|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|---------------------------------|----------------------------------|----------------------------------|
| Hybrid | 0 | 1001 | " 000 | | | 1000000 | | 2004 | N/A |
| Combinations | Average | N/A | 200# N/A | 17,424 P1/A | 23,232 P1/A | 17,424 P1/A | 23,232 P1/A | 17,424 P1/A | 23,232 P1/A |
| All Hybrids Yellow Hybrids White Hybrids | 111.4 112.6 108.0 | 105.7 107.6 100.4 | 117.0 117.7 115.6 | 110.0 1111.1 107.3 | 112.7 114.2 108.8 | 106.1 108.2 100.1 | | 114.0 113.9 114.3 | 120.2 121.4 116.9 |
| All Three-Way Crosses All Three-Way Crosses All Four-Way Crosses | 113.6 112.8 108.7 | 109.0 108.4 101.6 | 118.1 117.3 115.8 | 111.1 111.7 108.5 | 116.0 114.0 108.9 | 108.1 113.9 102.7 | 109.8 102.8 100.3 | 114.1 109.5 114.2 | 122.1 125.1 117.4 |
| 19 Yellow Single Crosses 2 Yellow Three-Way Crosses 9 Yellow Four-Way Crosses 1 Yellow Special Cross | 115.2 112.8 107.3 111.9 | 111.0 108.4 100.5 105.4 | 119,4 117.3 114.0 118.3 | 112,8 111.7 107.1 112.7 | 117.6 114.0 107.4 111.0 | 110.3 113.9 102.6 107.7 | 111.7 102.8 98.3 103.0 | 115.3 109.5 111.6 117.7 | 123.4 125.1 116.5 118.8 |
| 2 White Single Crosses 9 White Four-Way Crosses | 97.9 110.3 | 89.8 102.8 | 105.9 | 94.5 | 101.1 | 86.8 103.1 | 92.7 | 102.3 | 109.5 118.5 |

Table 7. Three-Year Summary of Hybrids Compared in 1965, 1966 and 1967

| | Average | Average Acre Yield, Bu | 3u. | Maturity Harvest Ear | Erect | Ear Height |
|------------------|---------|------------------------|---------|-------------------------|-------|---------------|
| Hybrid | State | Western | Eastern | Moisture,% | % | Ft. |
| YELLOW | | | | , | | (|
| Pioneer 3369 | 9.66 | 101.1 | 97.2 | 18.1 | 85.0 | 3.2 |
| S.S. 820S | 0.66 | 103.6 | 91.3 | 19.2 | 78.1 | 3.3 |
| Ken-Bred SX20Y | 95.2 | 100.7 | 85.9 | 19.4 | 80.5 | 3.3 |
| 8.8.860 | 91.1 | 91.5 | 90.5 | 19.8 | 80.1 | 3.4 |
| S.S. Matoaka | 93.2 | 93.6 | 92.5 | 19.8 | 73.1 | 3.4 |
| Ken-Bred E20YA | 9.96 | 4.66 | 91.8 | 20.1 | 75.5 | 3.4 |
| Princeton SX804 | 100.7 | 102.5 | 97.8 | 20.3 | 78.8 | 3.6 |
| S. S. 909E. | 7.76 | 100.5 | 93.0 | 20.3 | 84.4 | 4.1 |
| Crib Filler 66 | 101.3 | 102.3 | 9.66 | 20.7 | 9.47 | 3.3 |
| | 88.5 | 91.8 | 82.9 | 20.8 | 8.67 | 3.9 |
| Yellow Average | 6.3 | 98.7 | 92.3 | 19.9 | 0.62 | 3.5 |
| WHITE | | | | | | |
| US 523W | 86.7 | 88.7 | 83.3 | 19.9 | 75.6 | 3.6 |
| Ken-Bred M20W | 100.1 | 102.0 | 97.0 | 20.6 | 74.8 | 3.5 |
| Schenk S-96W | 92.4 | 8.46 | 88.5 | 20.8 | 78.0 | 3.5 |
| Kv 5921W | | 6.66 | 88.3 | 21.0 | 77.4 | 3.5 |
| Princeton 990-A | | 96.3 | 83.8 | 21.2 | 83.9 | 3.5 |
| Crib Filler 183W | | 7.96 | 93.2 | 95000 | 9.47 | 3.4 |
| Princeton 920-A | | 0.96 | 88.8 | 21.6 | 82.4 | 3.4 |
| Stull 800W | 86.3 | 7.06 | 79.5 | 23.5 | 77.3 | 3.7 |
| White Average | 92.7 | 92.6 | 87.8 | 21.3 | 78.0 | 3.5 |
| GRAND AVERAGE | 7.46 | 97.3 | 90.3 | 20.5 | 78.6 | 3.5 |
| | | | | | | |

Table 8. Two-Year Summary of Hybrids Compared in 1966 and 1967

| | V | A Caro Vicial | :: | Maturity | Erect | Ear |
|------------------|---------|---------------------|---------|-------------|--------|--------|
| | Average | Average Acre ileiu, | ·ng. | Ear Harvest | Plants | Height |
| Hybrid | State | Western | Eastern | Moisture,% | % | Ft. |
| YELLOW | | | | | | |
| Pioneer 3369 | 102.7 | 103.2 | 101.6 | 20.3 | 0.68 | 3.4 |
| S.S. 820S | 97.2 | 97.1 | 97.5 | 21.4 | 86.0 | 3.4 |
| Crib Filler 128 | 92.6 | 9.98 | 104.7 | 21.8 | 85.8 | 3.8 |
| Ken-Bred SX20Y | 95.6 | 94.3 | 89.3 | 21.8 | 82.8 | 3.5 |
| S.S. 860 | 93.6 | 89.7 | 101.3 | 22.1 | 85.9 | 3.6 |
| S.S. Matoaka | 0.96 | 93.3 | 101.4 | 22.3 | 82.0 | 3.5 |
| Ken-Bred E20YA | 99.1 | 7.66 | 98.6 | 22.5 | 86.4 | 3.5 |
| Pioneer 3196 | 114.6 | 116.6 | 110.6 | 22.5 | 6.06 | 3.6 |
| Ken-Bred VR20Y | 97.1 | 0.96 | 99.3 | 22.6 | 84.2 | 3.7 |
| Princeton SX 803 | 93.5 | 6.88 | 102.6 | 22.7 | 6.68 | 3.3 |
| Crib Filler 66 | 4.86 | 93.6 | 108.1 | 23.1 | 86.8 | 3.4 |
| Princeton SX 804 | 105.4 | 104.5 | 107.3 | 23.1 | 6.48 | 3.8 |
| S.S. 909E | 101.5 | 101.4 | 101.7 | 23.2 | 85.7 | 4.1 |
| S.S.866 | 102.2 | 102.8 | 100.9 | 23.5 | 88.8 | 3.7 |
| Ky 105 | 93.1 | 92.7 | 93.9 | 23.9 | 85.5 | 4.1 |
| Yellow Average | 98.6 | 97.3 | 101.3 | 22.5 | 86.3 | 3.6 |
| WHITE | | | | | | |
| US 523W | 7.06 | 89.7 | 91.7 | 22.9 | 80.8 | 3.7 |
| Ken-Bred M20W | 106.4 | 105.1 | 109.4 | 23.6 | 82.6 | 3.6 |
| Schenk S-96W | 98.1 | 95.9 | 102.5 | 23.6 | 0.98 | 3.8 |
| Ky 5921W | 102.3 | 104.4 | 98.2 | 23.8 | 87.5 | 3.7 |
| Meacham M-7 | 95.2 | 96.2 | 93.1 | 24.1 | 81.8 | 3.6 |
| Crib Filler 183W | 103.4 | 101.2 | 107.8 | 24.3 | 83.2 | 3.6 |
| Princeton 990A | 93.5 | 0.46 | 92.6 | 24.3 | 88.7 | 3.7 |
| Princeton 920A | 98.4 | 7.96 | 101.8 | 24.9 | | 3.6 |
| Stull 800W | 94.1 | 95.3 | 91.7 | 26.6 | 87.6 | 3.8 |
| White Average | 0.86 | 97.6 | 98.8 | 24.2 | 85.0 | 100 |
| GRAND AVERAGE | 98.4 | 4.79 | 100.3 | 23.1 | 85.8 | 3.6 |

Table 9. Annual Summary of Hybrids Evaluated Under Non-Virus Conditions in 1967

| | Aver | Average Acre Yield, Bu. | 1d, Bu. | Harvest | 100000 | Ear |
|--------------------|-------|-------------------------|---------|-------------|----------|----------|
| Hybrid | State | Western | Eastern | Moisture, % | Plants % | Ht., Ft. |
| YELLOW | | | | | | |
| Pioneer 3369 | 117.0 | 115.7 | 119.7 | 19.6 | 82.2 | 3.7 |
| Stewart Card. SX77 | 112.2 | 111.2 | 115.7 | 20.2 | 83.0 | 3.7 |
| S.S. 720SP | 111.9 | 110.4 | 114.8 | 20.5 | 81.1 | 3.7 |
| TE Bonusmaker-S | 110.0 | 109.7 | 110.6 | 20.6 | 82.4 | 3.5 |
| Princeton SY 606 | 110.1 | 106.3 | 117.7 | 20.7 | 86.3 | 3.5 |
| Stewart Card.SX47 | 114.8 | 106.5 | 131.3 | 21.2 | 9.98 | 3.7 |
| Princeton SX 809 | 117.3 | 115.5 | 121.0 | 21.3 | 81.3 | 3.5 |
| Stul 1 807 | 113.9 | 113.0 | 115.8 | 21.6 | 83.3 | 3.7 |
| Crib Filler 40 | 98.4 | 97.5 | 100.1 | 21.7 | 80.9 | 3.6 |
| | 106.2 | 102.5 | 113.6 | 21.7 | 82.5 | 3.9 |
| Schenk SS-77A | 115.0 | 104.5 | 135.9 | 21.8 | 85.7 | 3.6 |
| S.S. 820S | 112.3 | 111.2 | 114.6 | 21.8 | 81.9 | 3.6 |
| Ken-Bred SX 20Y | 107.1 | 108.3 | 104.8 | 22.0 | 77.4 | 3.8 |
| Pioneer 3306 | 117.5 | 112.6 | 127.4 | 22.0 | 9.98 | 3.9 |
| Crib Filler 105 | 131.6 | 128.1 | 138.6 | 22.2 | 83.7 | 3.9 |
| Crib Filler 128 | 103.2 | 94.7 | 120.2 | 22.2 | 81.5 | 0.4 |
| Ken-Bred VR20Y | 110.5 | 113.3 | 105.0 | 22.2 | 82.6 | 3.8 |
| Pioneer 3196 | 127.8 | 131.0 | 121.5 | 22.2 | 92.1 | 3.8 |
| S+111 807A | 132.2 | 132.3 | 132.0 | 22.3 | 90.2 | 3.7 |
| Von-Bred F20VA | 109.6 | 110.3 | 108.1 | 22.6 | 82.9 | 3.7 |
| S S Matoaka | 103.8 | 98.6 | 114.1 | 22.6 | 79.4 | 3.7 |
| S+11 707 | 119.3 | 117.0 | 124.0 | 22.6 | 84.4 | 3.3 |
| Scarr 101 | | | | | | |

| 848844844 8600466 8600666 | 3 7 7 7 7 8 8 7 7 7 7 7 7 7 7 7 7 7 7 7 | 4°.0 4°.0 4°.0 4°.0 4°.0 | 3°8 |
|--|---|---|---------------|
| 85.2 83.0 87.3 81.9 85.0 86.6 81.8 80.1 | 83.6 81.0 84.1 78.9 83.1 79.5 | 86.9 78.9 87.1 85.5 86.6 | 83.6 |
| 22. 23.0 23.1 23.1 23.2 23.3 23.3 23.4 | 22 22 22 22 23.5 23.9 24.1 | 24.3 24.6 24.9 25.2 26.9 24.3 | 22.7 |
| 118.5 113.3 117.4 123.9 129.1 105.1 118.7 122.3 | 117.7 110.0 119.0 96.0 114.3 | 100.2 109.1 87.3 109.5 71.4 | 113,1 |
| 96.2 114.4 107.1 106.4 108.7 110.3 106.7 119.2 | 110.1 102.9 105.4 123.8 107.6 120.7 | 121.6 116.6 116.1 110.2 98.0 | 110.6 |
| 103.6 114.0 110.5 112.2 115.5 108.6 110.7 120.2 | 112.6 99.3 106.9 122.2 103.7 118.6 | 114.5 114.1 106.5 110.0 89.1 108.0 | 111.4 |
| Princeton SX803 S.S. 909E Grib Filler 60 Grib Filler 66 Crib Filler 123 S.S. 866 Schenk SS-X75 Princeton SX 804 Ky 105 | Yellow Average WHITE US523W Schenk S-96W Ken-Bred M20W Meacham M-7 S.S. 935W Princeton 990A | Ky 5921W Crib Filler 183W Meacham MX75W Princeton 920A Stull 800W White Average | GRAND AVERAGE |

Table 10. Three-Year Summary of Hybrids Evaluated Under Virus Conditions in 1965, 1966, and 1967

| | In the transfer of the transfe | Other tu | Maturity | Erect | Ear |
|------------------|--|----------|-------------|--------|--------|
| | Vield | Rating | Harvest Ear | Plants | Height |
| Hvbrid | Bu/A | Grade | Moisture, % | % | Ft. |
| YELLOW | 000 | - | 25 5 | 89.2 | 3.4 |
| Ky 105 | 92.0 | 1.9 | 2.00 | 79.8 | 2.6 |
| Pioneer 3369 | 77.5 | 4.3 | 4.07 | 50.0 | 8.6 |
| Princeton SX304 | 51.7 | 4.4 | 8.77 | 7.70 | |
| 3606 S S | 60.7 | 8.4 | 23.6 | 68.3 | 6.7 |
| | 52.0 | 5.3 | 22.0 | 69.3 | 2.7 |
| S.S. Maloana | 5 7/5 | 75 | 23.2 | 81.6 | 2.7 |
| 5.5. 860 | 0.00 | 7 9 | 22.8 | 0.84 | 2.5 |
| Ken-Bred E201A | 27.0 | | 21.1 | 36.2 | 2.6 |
| S.S. 820S | 6.17 | 0.0 | 1.11 | 38.7 | 7.4 |
| Crib Filler 66 | 21.9 | 6.9 | 0.77 | 4.00 | |
| Ken-Bred SX20Y | 26.2 | 7.1 | 20.8 | 47.8 | 7.7 |
| Yellow Average | 49.3 | 5.3 | 22.5 | 9.09 | 2.7 |
| | | | | | |
| WHITE | 2/, 7 | 3.3 | 24.9 | 86.2 | 3.1 |
| = | 17. | 3.5 | 24.1 | 82.4 | 2.9 |
| Ky 5921W | 1.0 | , c | 7.70 | 78.2 | 3.1 |
| Schenk S-96W | 84.9 | | 25.7 | 7.68 | 3.0 |
| Stull 800W | 1°69 | 0.0 | | 79.3 | 2.8 |
| Crib Filler 183W | 70.3 | 1.4 | 0.47 | 87.2 | 2.9 |
| Princeton 990A | 9.69 | 7.4 | 6.67 | 20 07 | 2.9 |
| Ken-Bred M20W | 78.1 | 4.2 | 7.47 | 0.0 | , u |
| US 523W | 16.9 | 9.7 | 21.4 | 47.8 | 7.3 |
| Thite Arrange | 8 8 9 | 4.3 | 24.1 | 78.1 | 2.9 |
| WILLE AVCIAGE | 200 | | 6 66 | 7 09 | 2.8 |
| GRAND AVERAGE | 28.0 | 4.8 | 23.3 | 4.60 | 1 |
| | | | | | |

Table 11. Two-Year Summary of Hybrids Evaluated Under Virus Conditions in 1966 and 1967

| מרד ווד | 2000 | | | | |
|------------------|-------|--------|--|--------|--------|
| | | Virus | Maturity | Erect | Ear |
| | Yield | Rating | Harvest Ear | Plants | Height |
| Hybrid | Bu/A | Grade | Moisture, % | % | Ft |
| YELLOW | | | | | (|
| Ky 105 | 95.4 | 2.1 | 26.8 | 94.3 | 3.2 |
| 8.8.866 | 93.7 | 2.5 | 25.4 | 93.7 | 2.9 |
| Pioneer 3369 | 85.4 | 3.7 | 21.1 | 92.7 | 2.8 |
| Ken-Bred VR 20Y | 9.92 | 3.7 | 24.7 | 74.3 | 2.9 |
| Princeton SX804 | 54.4 | 4.4 | 23.8 | 61.8 | 2.8 |
| S. S. 909E | 63.2 | 4.5 | 24.8 | 77.8 | 2.9 |
| Crib Filler 128 | 62.2 | 9.4 | 22.2 | 81.8 | 2.9 |
| 8.8.860 | 59.2 | 6.4 | 24.2 | 84.7 | |
| S.S. Matoaka | 52.6 | 5.0 | 23.8 | 74.5 | 2.8 |
| Pioneer 3196 | 0.94 | 5.2 | 23.5 | 50.5 | 2.7 |
| Princeton SX 803 | 34.2 | 5.8 | | 59.0 | 2.7 |
| Ken-Bred E20YA | 29.8 | 5.9 | | 58.2 | |
| S.S. 820S | 27.6 | 0.9 | | 39.1 | |
| Crib Filler 66 | 20.9 | 6.5 | 23.6 | 0.94 | |
| Ken-Bred SX20Y | 25.1 | | 21.9 | 0.84 | |
| Yellow Average | 55.1 | 4.8 | 23.7 | 69.1 | 2.8 |
| WHITE | | | | | |
| Meacham M-7 | 76.9 | 3.4 | 26.3 | 90.2 | |
| Princeton 920A | 9.98 | 3.5 | 25.7 | 91.4 | • |
| Schenk S-96W | 91.4 | 3.7 | 25.7 | 86.3 | |
| Ky 5921W | 79.3 | 3.8 | 25.3 | 90.3 | |
| Crib Filler 183W | 73.4 | 4.3 | 25.6 | 9.98 | 2.8 |
| Princeton 990A | 71.3 | 4.3 | 25.8 | 88.8 | 3.1 |
| Ken-Bred M20W | 83.4 | 4.3 | 26.1 | 88.1 | 2.8 |
| Stull 800W | 63.9 | 6.4 | 27.2 | 92.7 | 2.8 |
| US523W | 16.4 | 7.1 | 21.6 | | 2.7 |
| White Average | 71.4 | 4.4 | 25.5 | 84.2 | 2.9 |
| GRAND AVERAGE | 61.2 | 9.4 | 24.6 | 74.8 | 2.9 |
| | | | A THE RESIDENCE OF THE PROPERTY OF THE PROPERT | | |

Table 12. Annual Summary of Hybrids Evaluated Under Virus Conditions in 1967

| | | Virus | Maturity | Erect | Ear |
|-------------------|-------|--------|-------------|--------|--------|
| | Yield | Rating | Harvest Ear | Plants | Height |
| Hybrid | Bu/A | Grade | Moisture, % | % | Ft. |
| YELLOW | | | | | |
| Ky 105 | 98.5 | 1.3 | 24.1 | 6.06 | 3.3 |
| 5.5. 866 | 108.1 | 1.7 | 23.5 | 91.2 | 3.1 |
| Stewart Card.SX77 | 95.5 | 2.3 | 22.7 | 86.1 | 3.1 |
| S.S. 909E | 77.8 | 2.5 | 22.5 | 9.97 | 3.3 |
| Pioneer 3369 | 102.3 | 2.8 | 20.1 | 89.1 | 3,3 |
| Ken-Bred VR20Y | 71.7 | 3.0 | 22.5 | 69.3 | 3.1 |
| Crib Filler 128 | 7.69 | 3.3 | 21.3 | 77.3 | 3.4 |
| Princeton SX804 | 60.3 | 3,3 | 22.2 | 60.5 | 3.1 |
| Stull 807 | 55.5 | 3.8 | 18.2 | 77.4 | 3.0 |
| Stewart Card.SX47 | 51.8 | 3.8 | 21.2 | 8.49 | 3.1 |
| Pioneer 3306 | 56.7 | 3.8 | 21.3 | 59.6 | 3.1 |
| Crib Filler 105 | 68.3 | 3.8 | 21.4 | 61.7 | 3.4 |
| S.S. 720SP | 52.9 | 4.0 | 19.8 | 66.5 | 3.0 |
| Pioneer 3196 | 53.7 | 4.0 | 20.0 | 9.74 | 3.0 |
| Princeton SX809 | 55.5 | 0.4 | 20.6 | 53.0 | 3.0 |
| S.S. Matoaka | 53.3 | 0.4 | 20.7 | 63.8 | 3 1 |
| S.S. 860 | 9.09 | 4.2 | 22.5 | 85.4 | 3.1 |
| Stull 807A | 46.2 | 4.5 | 20.2 | 72.8 | 3.4 |
| T-E Bonusmaker-S | 24.5 | 4.5 | 20.9 | 2.99 | 3.0 |
| Schenk SS-77A | 6.04 | 4.8 | 21.2 | 54.3 | 3.0 |
| Princeton SX803 | 34.3 | 4.8 | 22.2 | 9.67 | 3.0 |
| | | | | | |

| S.S. 820S | 30°2 | 0 | 6 | 31,1 | |
|------------------|-------|-----|-------|------|-----|
| Ken-Bred E20YA | 0 | 0 | | 0 | 3.0 |
| Crib Filler 66 | | | 21,9 | 43.7 | 3.0 |
| Princeton SX606 | 0 | 0 | 0 | | |
| Stull 707 | | | | 0 | 3.0 |
| Ken-Bred SX20Y | | | 21,1 | 46.3 | |
| Crib Filler 123 | 21.1 | 5.5 | 0 | 45.8 | 3.0 |
| Schenk SS-X75 | 0 | 0 | 21.7 | 45.5 | 0 |
| Crib Filler 60 | 0 | | 19,2 | 0 | 0 |
| Crib Filler 40 | 9.4 | 7.2 | 17.0 | 4.2 | 3.0 |
| Yellow Average | 50.7 | 4.2 | 20°9 | 8.09 | 3.0 |
| WHITE | | | | | |
| Meacham M-7 | 92.7 | 2.3 | 24.3 | 84.7 | 3.4 |
| S.S. 935W | 101,4 | 0 | 23.0 | 91,1 | 3,1 |
| Schenk S-96W | 105.5 | 2.5 | 23.4 | 83.1 | 3.4 |
| Princeton 920A | 100°6 | 0 | 0 | 87.1 | 3°3 |
| Ken-Bred M20W | 106.9 | 0 | 24.3 | 88°3 | 3,1 |
| Meacham MX75W | 111.0 | 0 | | 88.2 | 3.0 |
| Ky 5921W | 85.4 | | 0 | 85.5 | 3,3 |
| Princeton 990A | 6°48 | 0 | 23.8 | 9.88 | 3,5 |
| Crib Filler 183W | 81,5 | 3,8 | 24.04 | 85.0 | 3,1 |
| Stull 800W | 65.8 | | 25.4 | 0 | 3.1 |
| US 523W | 21.3 | 6.2 | 19.4 | 35°5 | 3.0 |
| White Average | 87.0 | 3.3 | 23.6 | 82.4 | 3.2 |
| | | | | | |
| GRAND AVERAGE | 60.3 | 3.9 | 21.7 | 0.89 | 3.1 |

Two-Year Summary of Hybrids Evaluated Under Nitrogen and Plant Populations Treatments Separately and in Combination in 1966 and 1967 Table 13.

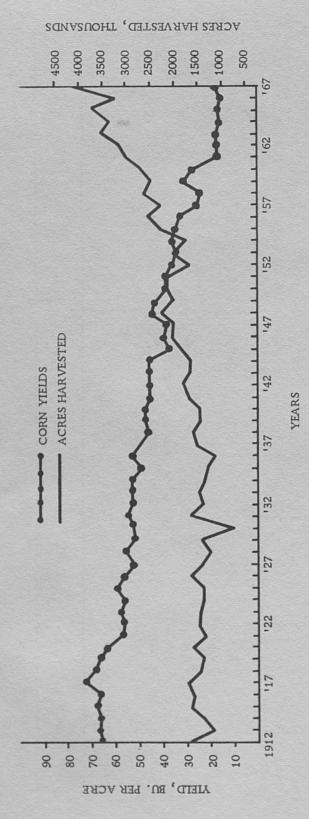
| | | | Ave | Average Acre | Yield in B | Bushels | | | |
|-----------------------------|---------|-------|-------|--------------|------------|---------|-----------|--------|--------|
| | | | | 000 | | 100# | 100# N/A | #0 | N/A |
| | Overal1 | 100# | 200排 | 17,424 | 23,232 | 17,424 | 23,232 | 17,424 | 23,232 |
| Hybrid | Average | N/A | N/A | P1/A | P1/A | P1/A | P1/A | P1/A | P1/A |
| VELLOW | | | | | | | | | |
| Dionogr 3369 | 103.9 | 99.1 | 108.8 | 106.5 | 101.3 | 6.96 | 101.2 | 116.1 | 101.4 |
| FIGHER 330 | 07 7 | 95.2 | 100.2 | 4.96 | 0.66 | 85.5 | 104.9 | 107.3 | 92.9 |
| 5.3. 0203 044 E4110# 108 | 8 00 | 86.1 | 95.6 | 9.46 | 87.1 | 88.4 | 83.8 | 100.8 | 90.3 |
| Vill Filler 120 | 03.7 | 90.3 | 97.1 | 97.3 | 90.1 | 0.68 | 91.5 | 105.5 | 9.88 |
| Nell-Bred SAZOL | 201.5 | 85.3 | 7.79 | 6.06 | 92.1 | 84.1 | 86.5 | 7.76 | 7.76 |
| 5.5. 660 | 05.0 | 5.00 | 101 6 | 9.96 | 95.1 | 87.7 | 92.5 | 105.0 | 7.76 |
| S.S. Maroaka | 0.00 | 4.00 | 101 3 | 000 | 98.7 | 93.5 | 100.0 | 105.1 | 97.4 |
| Ken-Bred E201A | 0.66 | 0.00 | 100 | 0 0 0 0 | 111 2 | 111 0 | 110 1 | 125 7 | 112.1 |
| Pioneer 3196 | 115.0 | 111.0 | 118.9 | 0.011 | 7.111 | 7.111 | 1 1 0 0 0 | | 7 00 |
| Ken-Bred VR20Y | 9.46 | 91.3 | 0.86 | 92.6 | 93.6 | 88.8 | 93./ | 102.5 | 93.4 |
| Dringeton SY803 | 9.76 | 88.3 | 97.0 | 9.46 | 90.7 | 7.06 | 86.1 | 7.86 | 95.2 |
| Crib Filler 66 | 9.96 | 93.4 | 7.66 | 101.3 | 91.8 | 95.5 | 91.3 | 107.1 | 92.3 |
| Dringston SY804 | 105.0 | 100.0 | 110.1 | 104.6 | 105.5 | 95.6 | 104.4 | 113.6 | 106.6 |
| TT THICE COND. | 101 2 | 95.7 | 106.8 | 106.5 | 0.96 | 100.4 | 91.0 | 112.6 | 101.0 |
| 3.3. 303E | 101 | 20,0 | 1001 | 104.8 | 666 | 95.0 | 93.9 | 114.5 | 104.4 |
| 8.8.800 | 107.0 | 74.5 | 107.1 | 0.101 | 1 (| | | 1001 | 0.0 5 |
| Ky 105 | 92.2 | 87.7 | 8.96 | 92.4 | 92.0 | 84.7 | 90.6 | 1001 | 73.3 |
| | | 1 | (| 000 | | , , , | α '/0 | 107 5 | 9 4 6 |
| Yellow Average | 98.1 | 93.7 | 102.6 | 100.0 | 7.06 | 4.26 | 74.0 | 2.701 | |

| 84.0 98.4 | 105.1 96.3 90.6 | 89.5 97.2 88.0 | 94.2 | 96.3 |
|-----------------------------------|---|--|---------------|---------------|
| 108.1 125.2 106.3 | 108.7 99.9 104.0 | 110.1 103.5 98.9 | 107.2 | 107.4 |
| 74.1 107.1 82.5 | 96.9 88.7 106.8 | 76.3 94.7 87.8 | 90.5 | 93.2 |
| 85.4 | 92.5 92.1 98.2 | 90.6 91.0 87.8 | 91.4 | 92.0 |
| 79.1 | 101.7 92.5 98.8 | 82.9 96.0 88.3 | 92.5 | 8.49 |
| 96.6 | 102.8 100.6 96.1 101.2 | 100.3 97.3 93.4 | 99.3 | 7.66 |
| 96.1 | 106.9 98.1 97.3 | 99.8 100.4 93.9 | 100.8 | 101.9 |
| 79.7 | 94.7 | 83.4 92.9 87.8 | 91.0 | 92.7 |
| 87.9 | 96.7 100.8 94.3 | 91.6 | 95.9 | 97.3 |
| WHITE US 523W Ken-Bred M20W | Schenk S-96W 96./ Ky 592IW 100.8 Meacham M-7 94.3 | Princeton 990-A Princeton 920-A Stull 800W | White Average | GRAND AVERAGE |

Annual Summary of Hybrids Evaluated Under Nitrogen and Plant Population Treatments Separately and in Combination in 1967 Table 14.

| | | | Ave | Average Acre | Yield in I | Bushels | | | |
|------------------------------|---------|-------|-------|--------------|------------|----------|--------|---------|--------|
| | | | | | | 100# N/A | N/A | 200兆 | N/A |
| Uwhrid | Overall | 100非 | 200排 | 17,424 | 23,232 | 17,424 | 23,232 | 17,424 | 23,232 |
| | Average | N/A | N/A | P1/A | P1/A | P1/A | P1/A | P1/A | P1/A |
| YELLOW | | | | | 1 | 0 | 101 | 1 7 2 1 | 122 8 |
| Pioneer 3369 | 117.2 | 109.4 | 125.0 | 119.0 | 115.3 | 110.9 | 101.0 | 1.121 | 0.771 |
| CHOICE CORD CY77 | | 107.8 | 117.6 | 110.2 | 115.1 | 108.1 | 107.5 | 112.3 | 177.8 |
| Stewart Cardina | | 105.4 | 118.3 | 112.7 | 111.0 | 107.7 | 103.0 | 117.7 | 118.8 |
| S.S. / ZUSE | 110 0 | 103.2 | 116.8 | 107.2 | 112.7 | 102.3 | 104.0 | 112.0 | 121.5 |
| C- 1-E Bollusmaker-1 | 110 1 | 105 4 | 114.8 | 105.6 | 114.6 | 104.2 | 106.7 | 107.0 | 122.6 |
| Filhceton saco | 117, 7 | 114.6 | 114.9 | 109.6 | 119.8 | 112.4 | 116.8 | 106.9 | 122.9 |
| Stewart Card.SA4/ | 117 3 | 108.7 | 126.0 | 122.6 | 112.0 | 117.8 | 99.5 | 127.5 | 124.5 |
| Finceton SASO2 | 113 0 | 114 7 | 113.2 | 111.1 | 116.7 | 117.8 | 111.6 | 104.5 | 121.8 |
| Stull 60/ | 08 3 | 0 00 | 104.7 | 98.3 | 98.3 | 94.1 | 6.68 | 102.5 | 106.8 |
| Crib Filler 40 | 106.2 | 98.1 | 114.3 | 104.0 | 108.3 | 0.96 | 100.1 | 112.2 | 116.5 |
| 5.5. 660 | 11/, 0 | 112 8 | 117.1 | 112.4 | 117.4 | 113.8 | 111.7 | 111.2 | 123.1 |
| Schenk 55-77A | 112 3 | 108 9 | 115.7 | 109.9 | 114.7 | 98.7 | 118.9 | 121.0 | 110.3 |
| 5.5. 6203 The prod CW20W | 107 1 | 103.5 | 110.7 | 104.2 | 110.0 | 100.4 | 106.6 | 107.9 | 113.4 |
| Ken-Bred SAZUI | 117 6 | 113.5 | 121.6 | 115.7 | 119.4 | 113.8 | 113.1 | 117.5 | 125.7 |
| Ploneer 3300 | 131 6 | 129.1 | 134.2 | 123.3 | 139.9 | 124.8 | 133.4 | 121.9 | 146.4 |
| CIID FILLE 103 | 103.2 | 93.1 | 113.3 | 106.3 | 100.1 | 100.5 | 85.7 | 112.2 | 114.4 |
| Von Brod WR20V | 110.5 | 107.8 | 113.2 | 109.2 | 111.7 | 106.9 | 108.6 | 111.5 | 114.8 |
| Dianor 3196 | 127.8 | 124.5 | 131.1 | 126.2 | 129.4 | 122.2 | 126.7 | 130.2 | 132.0 |
| F1011eer 31.00 | 132.2 | 128.7 | 135.6 | 127.6 | 136.7 | 129.8 | 127.7 | 125.4 | 145.8 |
| SCUIL GOVE | 100 6 | 103.6 | 115.6 | 107.9 | 111.3 | 104.3 | 102.8 | 111.4 | 119.7 |
| Ken-bred Ezola | 103.8 | 9.76 | 112.9 | 101.8 | 105.7 | 92.4 | 7.96 | 111.0 | 114.7 |
| S.S. Hacoara | 119.3 | 118.4 | 120.3 | 117.6 | 121.0 | 117.9 | 118.8 | 117.3 | 123.2 |
| Scurr /o/ | 103 6 | 6 66 | 107.3 | 101.1 | 106.2 | 103.2 | 7.96 | 98.9 | 115.6 |
| Frinceton SAOUS S.S. 909E | 114.1 | 105.9 | 122.3 | 118.5 | 109.6 | 114.9 | 8.96 | 122.1 | 177.3 |

| 118.7 118.9 122.9 119.0 127.1 129.8 104.0 | 121,4 | 110.0 115.6 133.3 112.3 122.4 109.0 132.3 114.1 126.0 117.9 93.0 | 120.2 |
|---|----------------|---|---------------|
| 108.6 116.1 114.6 108.0 107.7 125.7 | 113.9 | 113.5 116.2 138.5 102.5 109.7 118.9 109.9 113.9 91.5 | 114.0 |
| 112.6 103.7 108.8 101.5 93.8 119.9 84.0 | 107.0 | 76.0 90.2 112.8 99.5 118.4 91.7 106.5 121.8 99.7 105.4 85.7 | 105.3 |
| 102.2 110.3 115.4 105.6 114.0 105.4 87.1 | 108.2 | 97.8 105.7 103.9 100.6 103.9 100.0 110.4 87.2 102.6 86.3 | 106.1 |
| 115.6 111.3 115.9 110.3 110.5 124.9 94.0 | 114.2 | 93.0 102.9 123.0 105.9 120.4 100.3 119.5 118.0 111.7 89.4 | 112.7 |
| 105.5 113.2 115.0 106.8 110.9 115.5 | 111.1 | 105.6 110.9 121.3 101.6 116.7 106.5 110.2 110.2 100.1 108.3 88.9 | 110.0 |
| 113.7 117.5 118.8 113.5 117.4 127.8 | 117.7 | 111.7 115.9 135.9 107.4 126.0 109.4 125.6 112.0 119.5 115.9 | 117.0 |
| 107.4 107.0 112.2 103.6 103.9 112.7 85.6 | 107.6 | 86.9 98.0 108.4 100.1 111.2 97.5 103.3 116.1 93.5 104.0 86.0 | 105.7 |
| 110.6 112.3 115.5 108.6 110.7 120.2 | 112.6 | 99.3 106.9 122.2 103.8 118.6 103.4 114.5 114.5 110.0 89.2 | 111.4 |
| Crib Filler 60 Crib Filler 66 Crib Filler 123 S.S. 866 Schenk SS-X75 Princeton SX804 Ky 105 | Yellow Average | WHITE US 523W Schenk S-96W Ken-Bred M20W Meacham M-7 S.S.935W Princeton 990A Ky 5921W Crib Filler 183W Meacham MX 75W Princeton 920A Stull 800W White Average | GRAND AVERAGE |



acres devoted to corn production in Kentucky. However, since 1940 the total corn production has remained fairly constant owing to the increased per-acre Since 1917 there has been a rather consistent decline in the number of

Although production has remained at the same level, the decrease in corn been pointed out by the Governor's Commission on Agriculture which suggested if the long-time potential for corn was realized, corn acreage would double. This has Efficient land use is the key to increasing the agricultural income. acreage is not conducive to a well balanced agricultural economy.