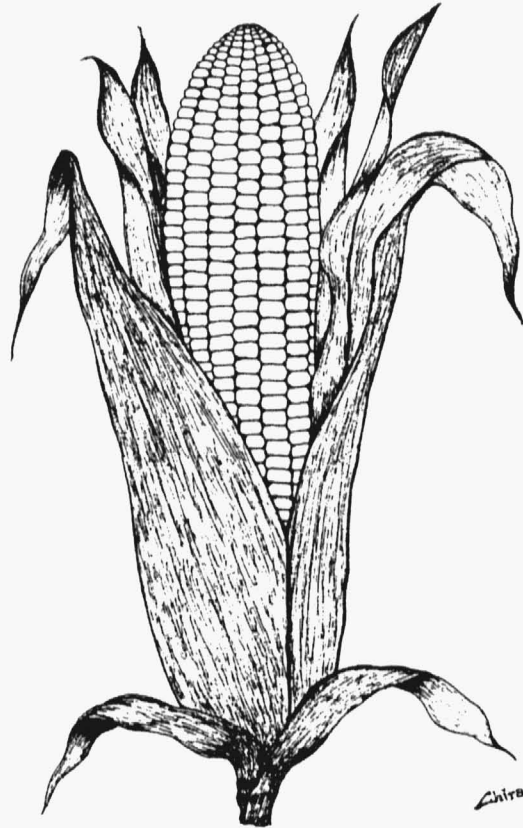


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WHITE FOOD CORN

1996 Performance Tests



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For information about the food corn tests or field day, please check our Internet site:

http://www.agron.missouri.edu/ars_columbia/fcpt&fd.html

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INTRODUCTION

The 1996 Late White Food Corn Performance Test (LWFCPT) included 43 white hybrids, one white hybrid check, and three yellow hybrid checks submitted by 17 commercial seed producers (Table 1). Nineteen white hybrids were new to the test in 1996. Fourteen locations were planted in the agronomic evaluation. Data were received from locations in Illinois, Indiana, Kansas, Kentucky, Missouri, Tennessee, and Texas. Data from Champaign, IL, were not included in the final analysis. First and second generation European corn borer (*Ostrinia nubilalis* Hübner) data were observed at Columbia and Novelty, MO. Grain samples were evaluated for quality by the Illinois Crop Improvement Association, Inc.

The 1996 Early White Food Corn Performance Test (EWFCPT) included 58 white hybrids and two yellow hybrid checks. Entries were submitted by 21 commercial seed producers (Table 1). Eighteen white hybrids were new to the test in 1996. Eleven total locations were planted in Illinois, Indiana, Iowa, Ohio, Missouri, Nebraska, and Tennessee. The tests planted at Champaign, IL, and Lebanon, IN, were abandoned. First and second generation European corn borer (*Ostrinia nubilalis* Hübner) data were observed at Columbia and Novelty, MO. Grain samples were evaluated for quality by the Illinois Crop Improvement Association, Inc.

ENTRIES AND SEED SOURCES

Contributors of seed for the 1996 evaluations are listed in Table 1. Those entries that have an **EXP** as part of the hybrid name, such as DEKALB Genetics EXP564W¹, have not been released. The last hybrids in each table are yellow or white kernel hybrid checks.

For averages over years, entry names have been changed to current designations, so that an experimental hybrid from an earlier year is now identified as the released hybrid. Where a previously entered hybrid was entered by a new company in 1996, changes have been made to prior naming so the hybrid appears in the summaries over years (if continuously entered). Changes affecting the 1996 tests follow: AgriGold XA3302W was released for sale as AgriGold A6680W. Asgrow renamed X757920W to XP7555W. Crow's EX550 was released as Crow's W54. DEKALB Genetics EXP562W was released as DEKALB Genetics DK631W. Mycogen Plant Sciences renamed Jacques 7860W to Mycogen 7860W. Pioneer Brand X1134WG was released as Pioneer Brand 3392W. Sturdygrow EXP 92013 was released for sale as Sturdygrow SG730W and Sturdygrow EXP 94002 was released as Sturdygrow SG781W. Trisler T-93W2 was released as Trisler T-4113W and Trisler T-95W1 was released as Trisler T-4211W. Vineyard Vx4134W was released as V413W.

Seed of the white hybrid check (K55 × CI66)FR802W came from Mr. R. L. Lundquist, Illinois Foundation Seeds, Inc., Champaign, IL. The yellow hybrid checks Pioneer Brand 3245 and 3394 were contributed by Dr. C. T. Cunyngham, Pioneer Hi-Bred International, Windfall, IN.

¹ Mention of a trademark or proprietary product does not constitute a guarantee, warranty, or recommendation of the product by the U.S. Department of Agriculture or the University of Missouri and does not imply its approval to the exclusion of other products that may also be suitable.

LOCATIONS AND AGRONOMIC PRACTICES

Table 2 lists the locations of the LWFCPT and EWFCPT from which acceptable data were returned, together with a record of the agronomic practices. Note that tests at Scandia and Topeka, KS; Clay Center and Gothenburg, NE; and College Station and Springlake, TX, were irrigated. Partial irrigation may have been used elsewhere.

Figure 1 shows map locations where tests were planted.

DATA COLLECTED

Yield

Yields were measured on a plot basis, converted to bushels per acre (54 lb bu/a), and adjusted to 15.5% moisture. No adjustment for plot stand was done.

Stand

Stand is expressed as a percentage of the optimum plot stand or planted stand.

Root and stalk lodging

Lodging is expressed as a percentage of the total plants for each hybrid. Generally, a plant was rated as root lodged if it leaned more than 30° from vertical and as stalk lodged if it was broken at or below the ear node. Breakage above the ear was not counted.

Ear height

Ear height was measured from the soil level to the top ear leaf collar. Heights are expressed in inches.

Days to flowering

The number of days from planting to mid-tassel or mid-silk is shown. Depending on weather conditions, the total number of days from planting to physiological maturity might be taken as 1.6 to 1.8 times the number of days to flowering.

Grain moisture

Grain moisture was measured at harvest or when the grain was weighed.

European corn borer

Leaf feeding by the first generation of the European corn borer was rated in nine classes. A score of 1 represented no feeding and 9 represented extensive damage. Plants in each plot were infested with about 160 larvae during the whorl stage of plant development. Ratings for leaf feeding were made three weeks later.

Feeding by the second generation of the European corn borer was determined by splitting stalks of five randomly infested plants per plot, counting the number of tunnels, and visually estimating the

length of tunneling in inches. The minimum tunnel length associated with one hole was 1 inch. About 160 larvae were applied at flowering, and stalks were split six or more weeks later.

Environmental yield response (b_1) and standard deviation of fit

These statistics are shown in Table 16 for the entry means combined over all locations for the 1996 LWFCPT and in Table 33 for the EWFCPT. The yield response (b_1) is expressed as bu/a/unit increase in the environmental index (I), where the index for a location is the average performance of all hybrids at the location. The deviation of fit is given in bu/a. The origin and use of these statistics are fully described later.

Test weight

Bulk density was determined by measuring the weight of a pint of grain and converting that weight to pounds per bushel.

100-kernel weight

Weight of 100 whole, cleaned kernels was measured in grams.

Kernel size

Kernel size was determined using a helium gas pycnometer and expressed in cc.

Thins

Thins were obtained by determining the percent of a 250-kernel sample that passed through a 20/64" round-hole sieve using 30 back-and-forth cycles on a Gamet shaker.

Density

Density was determined using a helium gas pycnometer and expressed in g/cc.

Percentage horny endosperm

The percentage horny endosperm was visually estimated using a candling light. Fifteen kernels per entry per location were evaluated.

STATISTICAL ANALYSES AND INTERPRETATIONS

Data from the LWFCPT and EWFCPT were analyzed as a three-replication, randomized-complete-block-design experiment at each location. If an observation was missing in one replication, the average of those observations in the remaining replications was used to approximate the missing observation. The least significant differences at probability level 0.05 (LSD 0.05) and coefficients of variation percentages (CV%) were calculated from the location analyses of variance (AOV). Where differences among hybrids were not significant for a character, no LSD or CV% is shown. Where data were missing or observed in only one or two replications, a footnote is used to identify those situations.

The LSD 0.05 is used to compare the performance of two specific hybrids at a time. It should not be used, however, to compare all pairs of hybrids. If the mean of hybrid “X” exceeds the mean for hybrid “Y” by the LSD 0.05 or more, the difference observed is a true difference in 19 out of 20 instances when the two hybrids are grown under conditions like those of the test.

The CV% relates error of measurement and the mean of the observed character. Values of the CV% for root and stalk lodging are sometimes much higher than for other characters and are generally associated with nonsignificant differences among hybrids.

Agronomic data combined from 13 locations of the 1996 LWFCPT with an appropriate LSD 0.05 for each character are shown in Table 16. Table 33 gives combined results for the 1996 EWFCPT. The combined LSD 0.05 is based on the entries \times locations interaction vs. the pooled error from the combined AOV. When a character was not observed at a location, dots show in the location analysis; the combined mean and LSD 0.05 have been adjusted accordingly.

Stability analysis gives information on the responsiveness of hybrids to changes in environment and the reliability with which these responses may be predicted. Mean performance of all hybrids at a location was the measure used to rate the environment. This environmental index (I) was then used as the independent variable in a regression analysis with the individual hybrid's performance at each location. A hybrid that is stable will have a regression coefficient (b_1) equal to 1.0, which means that an increase in the environmental index would result in an equal increase in the hybrid's yield. Regression coefficients greater than 1.0 indicate relatively better performance in good environments. Hybrids with b_1 values less than 1.0 would have a relative advantage in poor environments.

Deviation from fit reflects the accuracy with which the regression line given by b_1 represents probable performance. Low deviation indicates that a hybrid has greater stability.

Overall, a desirable hybrid would have a high mean yield, b_1 near 1.0, and low deviation from fit. If a grower knew he or she was producing on the high side of the environments sampled, then a hybrid with b_1 greater than 1.0 would be more responsive than one with $b_1 = 1.0$, and would be likely to yield more if mean yield levels were equivalent. Conversely, if a grower knew he or she was producing on the low side of the environments sampled, then a hybrid with b_1 less than 1.0 would be less influenced by environment than one with $b_1 = 1.0$, and would be likely to yield more if mean yield levels were equivalent.

NARRATIVE SUMMARY

1996 Late White Food Corn Performance Test

Yields from individual locations ranged from 82.1 bu/a at West Lafayette, IN, to 199.0 bu/a at Topeka, KS. The overall average for 13 locations was 159.6 bu/a compared to 137.9 bu/a in 1995. Relatively late plantings at Paris, IL; West Lafayette, IN; Columbia and Grand Pass, MO, were all completed on or after 20 May (Table 2) and a cool, wet spring limited yield potentials.

Plot stands averaged 96.1% and all locations exceeded 92%, which is excellent. No adjustment of yield for plot stands was done.

Root lodging was near zero (0.6% average) with the highest amount occurring at Scandia, KS

(2.2%). Stalk lodging averaged 10.0%, but that was attributed to data from West Lafayette, IN, wherein 73.7% stalk lodging was reported. At the other eight locations reporting stalk lodging data, none were more than 6.5%.

The number of days to flowering was recorded at seven locations. A 17.8-day spread was observed, ranging from 65.3 days at Lexington, KY, to 86.3 days at College Station, TX. Low grain moisture percentages can be observed where plots were harvested and dried before shelling and weighing, but most locations were combine harvested. Details of individual location data are in Tables 3 to 15 with the combined data in Table 16. Yield data from all 13 locations are given in Table 17.

Combined agronomic data from 13 locations (Table 16)

Two white hybrids and one yellow check hybrid yielded significantly more than the mean for all entries (159.6 bu/a): yellow check Pioneer Brand 3245 (182.4 bu/a), Pioneer Brand 3203W (176.7 bu/a), and Pioneer Brand X1155FW (176.5 bu/a). Zimmerman Z62W (171.3 bu/a), IFSI 90-1 (169.1 bu/a), and Zimmerman Z64W (168.8 bu/a) did not differ significantly from the top-yielding hybrid in the test. The widely-grown yellow check Pioneer Brand 3394 yielded 168.0 bu/a.

Two entries yielded significantly less than the mean of all entries: DEKALB Genetics DK631W (140.0 bu/a) and the white check (K55 × CI66)FR802W (126.1 bu/a). The entries × locations interaction was significant, indicating different entry responses in different environments.

Plot stands were excellent and averaged 96.1%. Only the stand for the white check (K55 × CI66)FR802W (82.2%) was significantly lower than the average of all entries.

Root lodging was low, averaging 0.6%, and differences among entries in the combined means were not significant. Stalk lodging averaged 10.0% for all entries. No entry had significantly less stalk lodging than the mean. Two entries had stalk lodging means exceeding that of the average entry: the white check (K55 × CI66)FR802W (14.1%) and Genetic Resources GRI95203 (14.9%). Severe stalk lodging occurred at West Lafayette, IN.

Eight white hybrids and two yellow check hybrids had ear heights significantly below the mean for all entries (45.9 inches): DEKALB Genetics DK631W (36.5 inches), Golden Harvest H-2633W (40.5 inches), IFSI 90-4 (41.4 inches), the yellow check Pioneer Brand 3245 (41.7 inches), Pioneer Brand 3287W (42.2 inches), Vineyard V442W (43.0 inches), the yellow check Pioneer Brand 3394 (43.2 inches), Vineyard V453W (43.3 inches), Pioneer Brand X1155FW (43.4 inches), and Vineyard V449W (43.5 inches).

Ten hybrids' ear heights were more than one LSD above the mean for all entries. These included Sturdy Grow SG777W (48.1 inches), Zimmerman Z73W (48.3 inches), Northrup King X6545W (48.4 inches), Whisnand 51AW (48.5 inches), Sturdy Grow SG797W (48.6 inches), SeedTec ST-7585W (48.8 inches), Zimmerman Z64W (49.2 inches), IFSI 90-1 (49.7 inches), Genetic Resources GRI95203 (50.8 inches), and the white check (K55 × CI66)FR802W (51.3 inches). The last two hybrids were more than two LSDs above the mean for all entries.

Eight white hybrids and two yellow check hybrids had a significantly lower number of days to flower (earlier) than the 73.8-day mean for all entries: the yellow check Pioneer Brand 3394 (70.6

days), Pioneer Brand X1155FW (70.7 days), Pioneer Brand 3287W (70.8 days), DEKALB Genetics DK631W (71.3 days), IFSI 90-4 (71.7 days), the yellow check B73 × Mo17 (72.1 days), Golden Harvest H-2633W (72.3 days), Whisnand 52AW (72.5 days), Trisler T-4215W (72.6 days), and Vineyard V448W (72.6 days). Hybrids flowering significantly later than the average hybrid included Zimmerman Z64W (74.9 days), Zimmerman Z71W (75.0 days), Genetic Resources GRI95203 (75.2 days), Sturdy Grow SG797W (75.2 days), Wilson E1789 (75.3 days), Zimmerman Z72W (75.4 days), Genetic Resources GRI96515 (75.5 days), Zimmerman Z73W (76.2 days), the white check (K55 × CI66)FR802W (77.5 days), and SeedTec ST-7590W (78.0 days). Because the LWFCPT is grown primarily in the southern Corn Belt, some earlier maturity hybrids may be at a yield disadvantage in not using the full growing season.

Differences in grain moisture measured during early-season combine harvesting are reduced when averaged with moistures after prolonged field or uniform drying. Grain moistures ranged from 17.2% for the yellow check Pioneer Brand 3394 to 22.9% for Whisnand 92AW and the white check (K55 × CI66)FR802W, with an overall average of 20.1%. Seventeen white hybrids and three yellow hybrid checks had grain moistures that were significantly less than the mean for all entries.

Four white hybrids (DEKALB Genetics DK631W, Pioneer Brand X1155FW, Whisnand 52AW, and Pioneer Brand 3287W) and two yellow checks (Pioneer Brand 3394 and B73 × Mo17) had both number of days to flower and grain moisture that were significantly below the means for all entries. The range of days to flower and grain moistures observed indicate that seed producers are offering a range of maturities in white hybrids.

The environmental response coefficients (b_1) and standard deviations of fit are shown in the last two columns of Table 16. (A difference of ± 0.09 from 1.00 is necessary for significance. The LSD should be used when comparing coefficients of two hybrids.) Fourteen white hybrids and one yellow check (B73 × Mo17) had b_1 s that were significantly greater than 1.00, indicating greater than average response to better environmental conditions, but poor performance in adverse environments. Eleven white hybrids and the yellow check hybrids Pioneer Brand 3245 and 3394 had environmental responses that were significantly less than 1.00.

Pioneer Brand 3203W (176.7 bu/a, $b_1 = 1.24$ bu/a/I) and IFSI 90-1 (169.1 bu/a, $b_1 = 1.10$ bu/a/I) had yields not differing from the highest yielding entry and a b_1 that was significantly greater than 1.0. These would be good selections when a favorable environment was anticipated.

Usually, low responsiveness is associated with low mean yields. Exceptions are occasionally found that are high yielding and have a low b_1 . Examples in this year's test include the yellow check Pioneer Brand 3245 (182.4 bu/a, $b_1 = 0.86$ bu/a/I) and Pioneer Brand X1155FW (176.5 bu/a, $b_1 = 0.66$ bu/a/I). This type of response would be desirable where adverse conditions were frequently encountered.

The standard deviations of fit varied for similar environmental response coefficients. For example, Genetic Resources GRI95203 (159.4 bu/a, $b_1 = 0.87$ bu/a/I) and SeedTec ST-7585W (166.8 bu/a, $b_1 = 0.87$ bu/a/I) had standard deviations of 9.8 and 19.2 bu/a, respectively. Genetic Resources GRI95203 would be expected to be a more predictable performer in response to varied environments than SeedTec ST-7585W.

In choosing a hybrid, all agronomic factors must be considered in relation to the anticipated environment. Data from several locations are usually more reliable than data from a single location evaluated for two or three years.

European corn borer susceptibility data for the 1996 LWFCPT (Table 18)

First-generation leaf-feeding ratings were obtained at Columbia and Novelty, MO. Significant differences were found among entries at both locations and in the combined data. For the combined means, three entries were significantly better (lower rating) than the mean of all entries (2.5 rating): DEKALB Genetics EXP564W (1.3 rating), IFSI 90-4 (1.5 rating), and Zimmerman Z62W (1.7 rating). Ratings in the 1-to-3 range are generally considered as indicating resistance, however, in 1996, even the susceptible check, Ki3, only rated 4.5.

IFSI 95-1 (3.3 rating), Whisnand 52AW (3.5 rating), and DEKALB Genetics DK703W (3.5 rating) were more susceptible to leaf-feeding damage than the average entry. These would be considered to have intermediate resistance to first-generation European corn borer.

Significant differences among entries were found for second-generation stalk-feeding data from Novelty, MO, but not at Columbia or in the combined data. At Novelty, no entry was significantly lower than the mean for either the number of tunnels or tunnel length. DEKALB Genetics EXP664W (2.6 tunnels, 2.8 inches) was significantly worse than the mean for number of tunnels and tunnel length, and ICI Seeds 8317W (2.1 inches) was significantly worse for tunnel length. The latter entry, however, does not differ significantly from about half of the other entries.

Two-, three-, four-, and five-year mean yields and agronomic performance (Tables 19 to 22)

Data were summarized for common entries in the last two, three, four, and five years of the LWFCPT. Individual year means were averaged without weighting for the varying numbers of locations over the years when they differed. For the past five years, the number of locations with acceptable data ranged from 10 for 1995 to 13 for 1996. Approximate values of 9.0 bu/a for the two-year means, 6.9 bu/a for the three-year means, 5.8 bu/a for the four-year means, and 5.2 bu/a for the five-year means could be used to compare yields of individual entries in the respective tables.

Among the hybrids included in the 1992 to 1996 tests (five-year means), the yellow check Pioneer Brand 3245 (176.0 bu/a) could be judged to yield significantly more than the average of other entries (156.3 bu/a). Relatively poorer performing over this period was the white check (K55 × CI66)FR802W (128.9 bu/a).

For the four-year means, the yellow check Pioneer Brand 3245 (172.9 bu/a) and Zimmerman Z64W (164.6 bu/a) would be judged to yield above the average. The yellow check Pioneer Brand 3245 yielded significantly more than any other entry in the five- and four-year means. Lower yielding than the average for all entries in the four-year means were Pioneer Brand 3287W (146.4 bu/a) and the white check (K55 × CI66)FR802W (119.8 bu/a).

Kernel quality evaluation of entries in the 1996 Late White Food Corn Performance Test (Table 23)

Milling quality of entries in the 1996 LWFCPT was evaluated by the Illinois Crop Improvement Association, Inc. Target values are a kernel weight of 37 g or more per 100 kernels, density equal to or exceeding 1.20 g/cc, and 90% or more horny endosperm. Significant differences among entries were found for all quality traits measured.

In 1996, the mean 100-kernel weight was 32.9 g. Only Genetic Resources GRI96515 (41.5 g) met or exceeded the target value of 37 g/100 kernels. Six hybrids had kernel weights significantly greater than the mean for all entries: Genetic Resources GRI96515 (41.5 g), Genetic Resources GRI95203 (37.0 g), the yellow check Pioneer Brand 3245 (36.7 g), DEKALB Genetics DK703W (36.5 g), DEKALB Genetics EXP564W (35.8 g), and the white check (K55 × CI66)FR802W (35.7 g). Relatively low 100-kernel weights are a reflection of relatively low yields experienced in 1996 and a trend toward smaller, more dense kernels. All white hybrids in the test had grain densities greater than or equal to 1.31 g/cc.

Zimmerman Z72W (95%), IFSI 95-1 (94%), Vineyard V442W (94%), Zimmerman Z73W (93%), Asgrow XP9465W (92%), the yellow check Pioneer Brand 3245 (91%), Zimmerman Z71W (91%), Vineyard V449W (91%), Vineyard V448W (90%), the white check (K55 × CI66)FR802W (90%) met the desired 90% horny endosperm criterion. Six white hybrids and two yellow checks had horny endosperm percentages significantly lower than the mean. Included in that group were NC+ 6555W (83%), Northrup King X6955W (83%), the yellow check Pioneer Brand 3394 (83%), ICI Seeds 8317W (82%), Whisnand 52AW (82%), Genetic Resources GRI96515 (82%), Northrup King N7580W (82%), and the yellow check B73 × Mo17 (74%). It may be that the Illinois Crop Improvement Association laboratory differs from The Quaker Oats Company, Barrington, IL, laboratory (original source of the 90% horny endosperm criterion) in judging this trait and that a lower target value, reflecting current data, would be acceptable to most processors.

1996 Early White Food Corn Performance Test

Yields in the EWFCPT ranged from 8.4 bu/a at Hoytville, OH, to 216.3 bu/a at St. Joseph, MO, with an overall average for eight locations of 142.5 bu/a, up slightly from 133.3 bu/a in 1995. This contrasts with the average yield of 180.0 bu/a in 1994, which was a record high for this test. Stands averaged 95.7% overall, ranging from 87.9% at Ogden, IA, to 103.4% at Hoytville, OH. Covariance adjustment of yield for stand was not done for 1996 data.

Root lodging averaged 2.3% at four locations reporting data, ranging from 0.0% at Hoytville, OH, to 5.3% at Clay Center, NE. Stalk lodging ranged from 3.6% at St. Joseph, MO, to 95.4% at Hoytville, OH, averaging 28.4% for the five locations with data. Several cooperators reported more, or more severe, lodging than usually occurred.

Days to flowering were recorded at three locations with a mean of 86.0 days. Harvest grain moistures averaged 21.6%. The Gothenburg, NE, location had 16.9% moisture at harvest, while Marion, IA, had 32.1% grain moisture at harvest.

Nineteen white hybrids and the yellow checks B73 × Mo17 and Pioneer Brand 3394 were grown in

both the LWFCPT and EWFCPT. Further testing will determine the appropriate environments for each hybrid. There will be hybrids, however, that are intermediate to the maturity zones of the two tests and will continue to be entered in both tests.

The test was also grown at Knoxville, TN (Table 32), but data were not included in the combined analysis of the northern locations. Individual location data are shown in Tables 24 to 32 with the combined data in Table 33. Yield data from the eight northern locations are given in Table 34.

Combined agronomic data from eight locations (Table 33)

The average yield from eight locations was 142.5 bu/a compared to 133.3 bu/a in 1995 and 180.0 bu/a in 1994. No hybrid was significantly higher yielding than the mean of all hybrids. Twenty-five white hybrids and the two yellow checks could not be differentiated (yielded 142.3 bu/a or more) from the top yielding hybrid: Pioneer Brand X1155FW (157.5 bu/a). Included among entries that yielded significantly less than the average of all entries were Zimmerman Z73W (125.3 bu/a) and AgriGold XA4323W (122.3 bu/a).

Differences among hybrids for stand percentage were relatively small. Three entries were significantly better than the mean of all entries (95.7%): Pioneer Brand 3443W (102.5%), AgriGold A6680W (102.3%), and Asgrow XP7555W (102.3%). Percentages more than 100 occur when a cooperators plants 'X' kernels and expects a 10% loss at germination. If that loss does not occur, then such percentages happen when the analysis performed uses 90% of the number of kernels planted as the number for converting counted stands to percentage stands.

Whisnand 52AW (88.6%), Crow's W54 (86.1%), LG Seeds NB710W (85.8%), LG Seeds NB571W (85.5%), and AgriGold XA4323W (70.1%) had significantly lower stand percentages than the mean for all entries. Of these, AgriGold XA4323W (70.1%) had a lower stand percentage than any other entry. At some locations (Galesburg, IL, 46.7%; Ogden, IA, 55.2%; Gothenburg, NE, 45.3%), stands were exceptionally poor. At Clay Center, NE, no data were reported for AgriGold XA4323W and a missing entry calculation was done based on deviations from means at other locations. Low stand percentage may be related to harsh germination conditions at some locations because stands for AgriGold XA4323W were normal elsewhere.

Differences among entries for root lodging were not significant and averaged 2.3%. Significant differences among entries for stalk lodging occurred and averaged 28.4%, largely because of a location average of more than 95% at Hoytville, OH. Two entries had less stalk lodging than the average entry: DEKALB Genetics EXP564W (22.1%) and Pioneer Brand 3287W (22.2%). Twenty-six white hybrids and the yellow check Pioneer Brand 3394 were not statistically differentiable from DEKALB Genetics EXP564W. Only Beck Ex2251 (35.1%) had a significantly greater amount of stalk lodging than the average entry.

Ear heights ranged from 33.4 inches for DEKALB Genetics DK631W to 53.2 inches for IFSI 95-2 and Sturdy Grow SG777W. Seven white hybrids and one yellow check were more than one LSD below the average of all entries: DEKALB Genetics DK631W (33.4 inches), LG Seeds NB571W (37.3 inches), ICI Seeds N3527W (37.6 inches), LG Seeds NB739W (38.5 inches), LG Seeds NB742W (39.2 inches),

Pioneer Brand 3463W (41.3 inches), Pioneer Brand 3443W (41.5 inches), and the yellow check Pioneer Brand 3394 (42.4 inches).

Ten white hybrids were 50.6 inches or more in ear height and that was significantly taller than the average entry. These included Trisler T-4211W, Mycogen 7860W, IFSI 90-1, Golden Harvest EX-106W, Crow's EX552, Mycogen X6688W, Whisnand 50W, Beck Ex2251, IFSI 95-2, and Sturdy Grow SG777W.

The number of days to flowering was recorded at three locations: Marion, IA; Clay Center, NE; and Hoytville, OH. These data, however, together with grain moisture, give an indication of entries that are relatively late or early maturing in this test. Entries that were significantly earlier flowering and had significantly lower grain moisture than the average entry were ICI Seeds N3527W (81.2 days, 18.6%), Pioneer Brand 3463W (82.6 days, 18.7%), DEKALB Genetics DK631W (82.8 days, 20.2%), Pioneer Brand 3443W (82.9 days, 18.8%), and LG Seeds NB571W (83.0 days, 19.3%).

Thirteen white hybrids had harvest moistures significantly greater than that of the average entry. Of these, four white hybrids had moistures exceeding the mean of 21.6% by two LSDs at harvest: Wilson E1789 (23.8%), Wilson 1790W (24.2%), Wilson 1780W (24.7%), and Hoegemeyer 1142W (25.8%)

The environmental response coefficients (b_1) and standard deviations of fit for the EWFCPT are shown in the last two columns of Table 33. (A difference of ± 0.09 from 1.00 is necessary for significance. The LSD should be used when comparing coefficients of two hybrids.) Nineteen white hybrids had b_1 s that were significantly greater than 1.00, indicating greater than average response to better environmental conditions, but poor performance in adverse environments. Of these, Whisnand 50W (156.1 bu/a, $b_1 = 1.21$ bu/a/I), Crow's EX552 (156.0 bu/a, $b_1 = 1.32$ bu/a/I), and Trisler T-4211W (155.6 bu/a, $b_1 = 1.27$ bu/a/I) had mean yields more than 155 bu/a and a high b_1 . These hybrids would be very responsive in good environments.

Seventeen white hybrids and one yellow check had environmental responses that were significantly less than 1.00. Usually, low response is associated with low mean yields. Hybrids can usually be found, however, that have high mean yield and hold up under adverse environments. In this test, only the yellow check Pioneer Brand 3394 (155.5 bu/a, $b_1 = 0.90$ bu/a/I) typified that response, and it is not as good an example as found in past reports. Response of such hybrids as this, in particular, would be desirable where adverse conditions were frequently encountered.

The standard deviations of fit varied for similar environmental response coefficients. For example, ICI Seeds 8320W (141.6 bu/a, $b_1 = 1.07$ bu/a/I) and Sturdy Grow SG797W (141.8 bu/a, $b_1 = 1.07$ bu/a/I) had standard deviations of 5.6 and 17.5 bu/a, respectively. ICI Seeds 8320W would be expected to be a more predictable performer in response to varied environments than Sturdy Grow SG797W.

European corn borer susceptibility data for the 1996 EWFCPT (Table 35)

First-generation leaf-feeding ratings were obtained at Columbia and Novelty, MO. Significant differences were found among entries at both locations and in the combined data. For the combined means, six entries were significantly better (lower rating) than the two susceptible checks and the mean of all entries (3.1 rating): Hoegemeyer 1142W (1.8 rating), DEKALB Genetics EXP564W (2.0 rating), Pioneer Brand 3443W (2.2 rating), DEKALB Genetics DK631W (2.2 rating), Vineyard V449W

(2.3 rating), and SeedTec ST-7545W (2.3 rating). One yellow check hybrid and three white hybrids had significantly higher first-generation European corn borer damage ratings than the average hybrid: the yellow check Pioneer Brand 3394 (4.0 rating), LG Seeds NB739W (4.0 rating), Wilson 1780W (4.0 rating), and Wilson 1790W (4.5 rating). All four of these hybrids had numerically greater ratings than the average of the two susceptible check entries (Ki3 and WF9 × W182E).

Significant differences among entries were found for second-generation number of tunnel data from Novelty, but not at Columbia. Neither Columbia nor Novelty had significant differences among entries for stalk tunnel length. Both second generation traits, however, had significant differences among entries in the combined analysis of variance. No hybrid was significantly better than the mean for either trait. Among the hybrids with the greatest number of tunnels and tunnel length were Northrup King X6955W (1.4 tunnels, 1.7 inches), Sturdy Grow SG765W (1.5 tunnels, 1.7 inches), Northrup King X6545W (1.5 tunnels, 1.6 inches), and the yellow check B73 × Mo17 (1.5 tunnels, 1.5 inches). Only Sturdy Grow SG765W had both values significantly exceeding the mean. This little damage would not be judged biologically significant.

Two-, three-, four-, and five-year mean yields and agronomic performance (Tables 36 to 39)

Data were summarized for the last two, three, four, and five years of the EWFCPT. Year means were averaged without weighting for the varying numbers of locations over the years. For the past five years, the number of locations with acceptable data has ranged from four in 1992 to eight in 1995 and 1996. Although an LSD cannot be directly calculated, approximate values of 10.0 bu/a for the two-year means, 8.7 bu/a for the three-year means, 7.3 bu/a for the four-year means, and 6.6 bu/a for the five-year means can be used to compare yields of individual entries.

For the five-year means, only the yellow check Pioneer Brand 3245 (176.0 bu/a) would be judged higher yielding than the average entry (156.3 bu/a). Yielding significantly better than B73 × Mo17 (154.7 bu/a) were Whisnand 51AW (162.2 bu/a) and ICI Seeds 8320W (161.9 bu/a). Pioneer Brand 3287W (149.2 bu/a) and the white check (K55 × CI66)FR802W (128.9 bu/a) were lower yielding than the average entry.

Results from calculating four-year means showed that the yellow check Pioneer Brand 3245 (172.9 bu/a) and Zimmerman Z64W (164.6 bu/a) yielded more than the mean for all entries (153.8 bu/a). Other than these two hybrids, none was significantly higher yielding than B73 × Mo17 at 151.7 bu/a. Relatively lower yielding than other entries were Pioneer Brand 3287W (146.4 bu/a) and the white check (K55 × CI66)FR802W (119.8 bu/a).

Kernel quality evaluation of entries in the 1996 Early White Food Corn Performance Test (Table 40)

Milling quality of entries in the 1996 EWFCPT was evaluated by the Illinois Crop Improvement Association, Inc. Target values are a kernel weight of 37 g or more per 100 kernels, density equal to or exceeding 1.20 g/cc, and 90% or more horny endosperm. Significant differences were found among entries for all quality traits.

Two hybrids met the 37 g/100 kernel target value: SeedTec ST-7545W (38.1 g) and DEKALB Genetics EXP564W (37.9 g). In addition to these two hybrids, DEKALB Genetics DK703W (36.0 g) and IFSI 90-1 (35.2 g) had 100-kernel weights significantly above the mean for all hybrids. As for 1995, the low number of hybrids meeting the 37 g/100 kernel criterion is partly because of the lower yields experienced in 1996 and the trend toward a smaller, denser kernel type. Late planting and stress during grain filling also reduce kernel weight. One yellow check, B73 × Mo17, and four white hybrids had 100-kernel weights significantly lower than the average hybrid: Northrup King X6955W, Sturdy Grow SG730W, Wilson 1790W, and NC+ 5633W.

All entries had kernel densities greater than 1.20 g/cc. Nine hybrids had kernel densities that were significantly above that of the average hybrid. Included were Vineyard V413W (1.35 g/cc), ICI Seeds 8320W (1.35 g/cc), Mycogen 7860W (1.34 g/cc), IFSI 90-1 (1.34 g/cc), Zimmerman Z73W (1.34 g/cc), Vineyard V449W (1.34 g/cc), Vineyard V448W (1.34 g/cc), Whisnand 51AW (1.34 g/cc), and Vineyard V414W (1.34 g/cc).

Four hybrids met the 90% or more horny endosperm criterion: Vineyard V414W (95%), Vineyard V413W (95%), Vineyard V449W (93%), and Zimmerman Z73W (91%). Twenty-five additional hybrids had 85% or greater horny endosperm. Only five white hybrids and one yellow check did not have 80% or greater horny endosperm: NC+ 5633W (79%), LG Seeds NB571W (79%), Northrup King X6955W (79%), Sturdy Grow SG765W (78%), the yellow check B73 × Mo17 (75%), and LG Seeds NB710W (75%). As for the LWFCPT, it may be that the Illinois Crop Improvement Association laboratory differs from The Quaker Oats Company, Barrington, IL, laboratory (original source of the 90% horny endosperm criterion) in judging this trait and that a lower target value, reflecting current data, would be acceptable to most processors.

Table 1. Sources of commercial white endosperm food corn hybrids entered in the 1996 Late White Food Corn Performance Test and the 1996 Early White Food Corn Performance Test.

Brand	Firm [†]	Address/telephone/FAX
AgriGold	Akin Seed Company	RR 1, Box 203, St. Francisville, IL 62460 Tel. 618/943-5776 FAX 618/943-7333
Asgrow	Asgrow Seed Company	3000 Westown Parkway, P. O. Box 7570 West Des Moines, IA 50265 Tel. 515/224-4200 FAX 515/224-4262
Beck	Beck's Hybrids	6767 East 276 th Street, Atlanta, IN 46031 Tel. 800/937-2325 FAX 317/984-3500
Cargill/Vineyard	Cargill Hybrid Seeds	P. O. Box 5645, Minneapolis, MN 55440 Tel. 612/742-6716 FAX 612/742-7235
Crow's	Crow's Hybrid Corn Co.	P. O. Box 306, Milford, IL 60953 Tel. 815/889-4151 FAX 815/889-5253
DEKALB Genetics	DEKALB Genetics Corp.	3100 Sycamore Road, DeKalb, IL 60115 Tel. 800/335-2676 FAX 815/748-3927
Genetic Resources	Genetic Resources, Inc.	P. O. Box 229, 1606 County Road 600 North, Philo, IL 61864 Tel. 217/684-2783 FAX 217/684-2787
Golden Harvest	The J. C. Robinson Seed Co.	100 J. C. Robinson Boulevard, Waterloo, NE 68069 Tel. 402/779-2531 FAX 402/779-2910
Hoegemeyer	Hoegemeyer Hybrids	1755 Hoegemeyer Road., Hooper, NE 68031-2125 Tel. 402/654-3399 FAX 402/654-3342
ICI Seeds	ICI Seeds	Route 2, Box 16, Marshall, MO 65340 Tel. 816/886-6363 FAX 816/886-9877
IFSI	Illinois Foundation Seeds, Inc.	P. O. Box 722, Champaign, IL 61824-0722 Tel. 271/485-6420 FAX 217/485-5223
LG Seeds	LG Seeds	N. Wycles Road, P. O. Box 950, Decatur, IL 62525 Tel. 800/397-5010 FAX 217/422-2194
Mycogen	Mycogen Plant Sciences	1615 State Route 10, Lincoln, IL 62656 Tel. 800/692-6436 FAX 715/262-3996
NC+	NC+ Hybrids	3820 N. 56 th Street, Lincoln, NE 68504-0408 Tel. 800/279-7999 FAX 402/467-4217
Northrup King	Northrup King Company	Box 710, St. Joseph, IL 61873 Tel. 217/469-2746 FAX 217/469-2407
Pioneer Brand	Pioneer Hi-Bred International	4445 Corporate Drive, Suite 200 West Des Moines, IA 50265 Tel. 800/331-2939 FAX 515/226-2939

Table 1. Continued.

Brand	Firm [†]	Address/telephone/FAX
SeedTec	SeedTec International	P. O. Box 2210, Woodland, CA 95776 Tel. 916/666-7871 FAX 916/662-9125
Sturdy Grow	Sturdy Grow Hybrids, Inc.	P. O. Box 194, Arcola, IL 61910 Tel. 217/268-3838 FAX 217/268-3628
Trisler	Trisler Seed Farms, Inc.	3247 East 800 North Road, Fairmount, IL 61841 Tel. 217/288-9301 FAX 217/288-9095
Whisnand	Whisnand Hybrids	1220 East State Route 133, Arcola, IL 61910 Tel. 217/268-3714 FAX 217/268-3291
Wilson	Wilson Seeds, Inc.	P. O. Box 391, Harlan, IA 51537 Tel. 712/755-3841 FAX 712/755-2394
Zimmerman	Zimmerman Hybrids, Inc.	5147 West Franklin Road Evansville, IN 47712 Tel. 812/985-2449 FAX 812/985-3309

[†] Mention of a trademark or proprietary product does not constitute a guarantee, warranty, or recommendation of the product by the U.S. Department of Agriculture or the University of Missouri and does not imply its approval to the exclusion of other products that may also be suitable.

Table 2. Locations and agronomic conditions for yield tests.

Location	Mean yield (bu/a)	Previous crop	Fertilizer (lb/a)			Date planted	Herbicide	Insecticide	Plant density (plants/a)
			N	P ₂ O ₅	K ₂ O				
Late White Food Corn Performance Test									
Paris, IL	150.7	Soybeans	186	46	200	22MAY96	Atrazine, cyanazine	----- [†]	26,550
Winchester, IL	174.3	Soybeans	125	0	0	24APR96	Atrazine, metolachlor	-----	26,550
West Lafayette, IN	82.1	Soybeans	180	0	0	5JUN96	Atrazine, cyanazine, dimethenamid	-----	24,800
Scandia, KS [‡]	182.2	Sorghum	180	30	0	3MAY96	Alachlor, atrazine	Tefluthrin	31,200
Topeka, KS [‡]	199.0	Soybeans	162	41	0	16APR96	Atrazine, metolachlor	-----	29,000
Henderson, KY	156.4	Soybeans	246	211	145	17MAY96	Atrazine, metolachlor, primisulfuron, prosulfuron	-----	24,598
Lexington, KY	170.6	Corn	225	0	60	14MAY96	Alachlor, atrazine, bentazon,	Tefluthrin	23,868
Columbia, MO	159.7	Soybeans	160	195	80	23MAY96	Atrazine, metolachlor	Chlorpyrifos	21,780
Grand Pass, MO	121.0	Soybeans	150	60	50	20MAY96	Atrazine, dicamba, halosulfuron, metolachlor, nicosulfuron	-----	21,780
Knoxville, TN	145.2	Soybeans	167	60	38	25APR96	Alachlor, simazine	Chlorpyrifos	26,136
Union City, TN	179.0	Corn	240	45	90	27APR96	Atrazine, metolachlor, simazine	Lambda-cyhalothrin	25,000
College Station, TX [‡]	163.6	Sorghum	137	12	6	27FEB96	Atrazine, metolachlor	Tefluthrin	28,000
Springlake [‡]	191.4	Soybeans	270	50	30	16APR96	Atrazine, primisulfuran, treflan	Lambda-cyhalothrin	28,000

Table 2. Continued.

Location	Mean yield (bu/a)	Previous crop	Fertilizer (lb/a)			Date planted	Herbicide	Insecticide	Plant density (plants/a)
			N	P ₂ O ₅	K ₂ O				
Early White Food Corn Performance Test									
Galesburg, IL	115.0	Soybeans	140	92	120	26APR96	Acetochlor	-----	24,890
Wanatah, IN	126.2	Soybeans	170	39	103	20MAY96	Atrazine, cyanazine, metolachlor	-----	24,800
Marion, IA	182.5	Corn	220	60	100	1MAY96	Atrazine, cyanazine	Chlorpyrifos	29,600
Ogden, IA	130.3	Soybeans	149	90	110	26APR96	Atrazine, bentazon, metolachlor	-----	29,000
St. Joseph, MO	216.3	Soybeans	177	76	60	3MAY96	Atrazine, cyanazine, metolachlor	Tefluthrin	24,394
Clay Center, NE [‡]	175.5	Soybeans	185	46	0	24APR96	Acetochlor, atrazine, dicamba, glycomin	-----	30,000
Gothenburg, NE [‡]	110.1	Corn	150	27	0	25APR96	Atrazine, benoxacor, metolachlor	Chlorpyrifos, cyfluthrin	31,600
Custar, OH	84.2	Corn	330	68	36	22MAY96	2-4-D amine, flumetsulam, metolachlor	-----	30,000
Knoxville, TN	166.5	Soybeans	167	60	38	25APR96	Alachlor, simazine	Chlorpyrifos	26,136

[†] Dashes indicate none used or data missing.

[‡] Irrigated location.



Fig. 1. Planted locations for the late and early white food corn performance tests.

Table 3. Yield and agronomic data from the 1996 Late White Food Corn Performance Test at Paris, IL. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>Asgrow XP9465W</i>	1	171.2	100.0	.	.	36.3	.	30.5
DEKALB Genetics DK703W	2	139.9	99.5	.	.	41.0	.	30.0
<i>DEKALB Genetics DK631W</i>	3	138.3	99.5	.	.	26.7	.	28.2
<i>DEKALB Genetics EXP564W</i>	4	137.0	99.5	.	.	38.7	.	28.8
<i>DEKALB Genetics EXP664W</i>	5	141.8	96.9	.	.	40.0	.	30.4
<i>Genetic Resources GRI95203</i>	6	161.5	99.0	.	.	46.7	.	29.9
<i>Genetic Resources GRI96515</i>	7	134.0	90.6	.	.	40.3	.	31.1
ICI Seeds 8317W	8	145.6	99.0	.	.	41.3	.	30.9
ICI Seeds 8320W	9	147.7	99.5	.	.	41.7	.	29.1
IFSI 90-1	10	179.5	100.0	.	.	43.0	.	28.8
IFSI 90-4	11	175.7	100.0	.	.	37.3	.	31.2
IFSI 94-3	12	182.9	100.0	.	.	38.3	.	31.7
IFSI 95-1	13	167.1	98.4	.	.	41.0	.	31.2
Golden Harvest H-2633W	14	143.9	100.0	.	.	34.0	.	31.7
LG Seeds NB749W	15	152.8	98.4	.	.	42.3	.	30.3
<i>NC+ 6555W</i>	16	140.8	100.0	.	.	42.0	.	30.2
<i>NC+ 6989W</i>	17	130.8	98.4	.	.	43.7	.	30.7
Northrup King N7580W	18	123.3	93.8	.	.	40.0	.	29.6
<i>Northrup King X6545W</i>	19	153.2	89.6	.	.	43.0	.	27.8
<i>Northrup King X6955W</i>	20	170.3	96.4	.	.	41.0	.	28.3
Pioneer Brand 3203W	21	129.5	100.0	.	.	33.7	.	30.5
Pioneer Brand 3281W	22	134.2	100.0	.	.	38.3	.	27.8
Pioneer Brand 3287W	23	155.4	100.0	.	.	36.3	.	28.1
<i>Pioneer Brand X1155FW</i>	24	173.1	99.5	.	.	36.3	.	28.2
<i>SeedTec ST-7585W</i>	25	160.2	98.4	.	.	43.0	.	30.6
<i>SeedTec ST-7590W</i>	26	142.6	100.0	.	.	39.0	.	30.5
Sturdy Grow SG765W	27	167.2	99.0	.	.	42.0	.	27.9
Sturdy Grow SG777W	28	132.7	100.0	.	.	44.3	.	28.9
Sturdy Grow SG797W	29	114.1	94.3	.	.	44.0	.	30.3
<i>Trisler T-4215W</i>	30	175.2	99.5	.	.	38.3	.	32.0
Vineyard V442W	31	163.3	98.4	.	.	30.7	.	29.9
Vineyard V448W	32	164.3	100.0	.	.	44.0	.	29.2
Vineyard V449W	33	165.0	95.8	.	.	34.0	.	29.1
Vineyard V453W	34	160.4	99.0	.	.	36.0	.	29.2
Whisnand 51AW	35	136.8	99.0	.	.	42.3	.	28.2
<i>Whisnand 52AW</i>	36	169.3	99.0	.	.	39.3	.	28.6
Whisnand 92AW	37	153.1	100.0	.	.	38.3	.	31.5
<i>Wilson E1789</i>	38	130.4	100.0	.	.	42.3	.	29.7
Zimmerman Z62W	39	157.5	100.0	.	.	41.0	.	28.8
Zimmerman Z64W	40	149.4	96.4	.	.	43.7	.	30.5
<i>Zimmerman Z71W</i>	41	146.7	97.9	.	.	40.3	.	31.6
<i>Zimmerman Z72W</i>	42	143.8	94.3	.	.	39.0	.	29.0
<i>Zimmerman Z73W</i>	43	162.3	99.0	.	.	41.0	.	28.1
White check (K55×CI66)FR802W	44	95.1	80.2	.	.	48.3	.	31.9
Yellow check B73×Mo17	45	144.3	94.3	.	.	40.7	.	28.3

Table 3. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Yellow check Pioneer Brand 3245	46	158.5	100.0	.	.	34.3	.	27.7
Yellow check Pioneer Brand 3394	47	163.2	100.0	.	.	34.0	.	25.8
Mean		150.7	97.9	.	.	39.6	.	29.6
LSD 0.05		25.6	6.5			5.7		1.1
CV%		10.4	4.1			8.7		2.3

Table 4. Yield and agronomic data from the 1996 Late White Food Corn Performance Test at Winchester, IL. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>Asgrow XP9465W</i>	1	191.4	100.0	0.0	1.0	54.3	.	26.3
DEKALB Genetics DK703W	2	182.9	100.5	0.0	1.0	53.0	.	23.0
<i>DEKALB Genetics DK631W</i>	3	146.6	102.6	0.0	1.6	53.3	.	21.3
<i>DEKALB Genetics EXP564W</i>	4	179.7	96.4	0.0	0.5	57.0	.	21.7
<i>DEKALB Genetics EXP664W</i>	5	172.5	104.2	0.0	0.5	55.3	.	22.4
<i>Genetic Resources GRI95203</i>	6	173.3	100.0	0.5	2.1	55.3	.	24.4
<i>Genetic Resources GRI96515</i>	7	192.1	95.3	0.0	0.0	53.0	.	25.4
ICI Seeds 8317W	8	169.2	102.6	0.0	1.0	52.3	.	22.9
ICI Seeds 8320W	9	163.9	100.5	0.0	0.5	53.7	.	22.4
IFSI 90-1	10	167.0	104.2	0.0	0.0	62.0	.	22.7
IFSI 90-4	11	169.4	87.5	0.0	0.0	45.7	.	25.7
IFSI 94-3	12	179.4	102.6	0.0	0.5	55.7	.	25.2
IFSI 95-1	13	187.2	100.0	0.0	0.0	54.0	.	26.6
Golden Harvest H-2633W	14	178.1	99.5	0.0	0.5	47.0	.	26.7
LG Seeds NB749W	15	180.4	100.0	0.0	0.0	54.3	.	22.5
<i>NC+ 6555W</i>	16	173.5	103.6	0.0	0.5	54.0	.	22.9
<i>NC+ 6989W</i>	17	169.8	95.8	0.0	0.0	53.0	.	24.7
Northrup King N7580W	18	160.0	93.8	0.0	0.0	55.0	.	25.3
<i>Northrup King X6545W</i>	19	176.6	100.0	0.0	0.0	58.7	.	20.2
<i>Northrup King X6955W</i>	20	179.3	100.5	0.0	0.0	54.3	.	21.7
Pioneer Brand 3203W	21	209.0	101.6	0.0	0.0	50.0	.	24.3
Pioneer Brand 3281W	22	166.6	100.0	0.0	0.0	58.3	.	21.5
Pioneer Brand 3287W	23	152.5	104.2	0.0	0.0	48.3	.	21.6
<i>Pioneer Brand X1155FW</i>	24	180.0	102.6	0.0	0.5	49.7	.	20.4
<i>SeedTec ST-7585W</i>	25	175.1	100.0	0.0	0.0	55.7	.	25.3
<i>SeedTec ST-7590W</i>	26	150.8	67.7	0.0	0.0	53.7	.	24.6
Sturdy Grow SG765W	27	179.7	100.0	0.0	1.6	56.3	.	20.7
Sturdy Grow SG777W	28	166.6	103.6	0.0	0.9	54.7	.	22.0
Sturdy Grow SG797W	29	147.9	85.9	0.0	0.5	60.3	.	23.5
<i>Trisler T-4215W</i>	30	173.3	100.0	0.0	0.0	53.3	.	26.0
Vineyard V442W	31	181.7	100.0	0.0	0.0	48.7	.	23.5
Vineyard V448W	32	178.6	104.2	0.0	0.5	51.0	.	22.0
Vineyard V449W	33	182.9	103.1	0.0	0.0	50.7	.	22.7
Vineyard V453W	34	175.8	100.0	0.0	0.0	53.7	.	24.5
Whisnand 51AW	35	182.8	103.1	0.0	0.5	56.3	.	23.0
<i>Whisnand 52AW</i>	36	188.2	84.9	0.6	0.0	55.7	.	22.5
<i>Whisnand 92AW</i>	37	160.0	100.0	0.0	1.0	51.7	.	26.0
<i>Wilson E1789</i>	38	191.8	101.6	0.0	0.5	56.3	.	25.9
Zimmerman Z62W	39	188.1	99.5	0.0	0.0	52.7	.	20.5
Zimmerman Z64W	40	181.0	104.2	0.0	0.0	58.0	.	24.9
<i>Zimmerman Z71W</i>	41	163.0	104.2	0.0	0.0	55.7	.	28.0
<i>Zimmerman Z72W</i>	42	181.4	100.0	0.0	0.0	55.7	.	22.9
<i>Zimmerman Z73W</i>	43	177.0	99.5	0.0	0.0	57.0	.	21.2
White check (K55 × CI66)FR802W	44	104.4	45.8	0.0	0.0	56.3	.	29.0
Yellow check B73 × Mo17	45	169.2	82.3	0.0	0.0	52.3	.	21.7

Table 4. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Yellow check Pioneer Brand 3245	46	189.2	101.6	0.0	0.0	47.7	.	20.8
Yellow check Pioneer Brand 3394	47	203.0	101.6	0.0	0.0	51.7	.	19.9
Mean		174.3	97.7	0.0	0.3	53.9	.	23.5
LSD 0.05		22.6	8.5	ns	ns	5.9		1.7
CV%		7.9	5.3			6.7		4.3

Table 5. Yield and agronomic data from the 1996 Late White Food Corn Performance Test at West Lafayette, IN. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>Asgrow XP9465W</i>	1	83.4	97.7	0.0	73.6	45.0	.	24.7
DEKALB Genetics DK703W	2	84.7	94.6	0.0	79.3	46.2	.	21.8
<i>DEKALB Genetics DK631W</i>	3	72.4	93.2	0.0	83.0	34.3	.	19.0
<i>DEKALB Genetics EXP564W</i>	4	93.3	90.5	0.0	63.5	49.1	.	20.1
<i>DEKALB Genetics EXP664W</i>	5	68.5	97.3	0.0	87.0	50.8	.	22.8
<i>Genetic Resources GRI95203</i>	6	86.5	93.2	0.0	87.5	54.0	.	23.9
<i>Genetic Resources GRI96515</i>	7	83.1	82.9	0.0	71.2	46.3	.	25.4
ICI Seeds 8317W	8	73.7	95.5	0.0	79.7	49.7	.	21.9
ICI Seeds 8320W	9	81.0	95.5	0.0	85.5	48.8	.	20.3
IFSI 90-1	10	71.0	91.0	0.0	77.1	51.9	.	20.4
IFSI 90-4	11	98.2	93.2	0.0	57.1	42.8	.	27.4
IFSI 94-3	12	81.9	91.4	0.0	71.5	49.1	.	27.7
IFSI 95-1	13	87.1	92.3	0.0	68.6	46.0	.	25.0
Golden Harvest H-2633W	14	80.1	86.9	0.0	72.2	39.1	.	25.8
LG Seeds NB749W	15	73.6	97.7	0.0	91.7	51.1	.	22.2
<i>NC+ 6555W</i>	16	73.5	94.1	0.0	78.9	49.0	.	22.1
<i>NC+ 6989W</i>	17	88.6	90.1	0.0	71.9	45.2	.	25.3
Northrup King N7580W	18	67.4	86.0	0.0	85.6	48.2	.	22.7
<i>Northrup King X6545W</i>	19	63.5	89.6	0.0	81.5	50.2	.	20.1
<i>Northrup King X6955W</i>	20	70.9	94.1	0.0	83.5	47.5	.	21.1
Pioneer Brand 3203W	21	86.0	94.6	0.0	81.4	49.3	.	21.4
Pioneer Brand 3281W	22	88.5	92.8	0.0	69.9	45.2	.	19.8
Pioneer Brand 3287W	23	102.1	96.8	0.0	55.8	41.3	.	21.3
<i>Pioneer Brand X1155FW</i>	24	109.4	91.4	0.0	65.4	42.3	.	19.7
<i>SeedTec ST-7585W</i>	25	91.4	95.0	0.0	45.2	50.1	.	23.0
<i>SeedTec ST-7590W</i>	26	66.7	86.0	0.0	64.0	52.3	.	27.1
Sturdy Grow SG765W	27	85.4	95.0	0.0	80.8	48.1	.	21.6
Sturdy Grow SG777W	28	75.4	92.8	0.0	77.2	49.9	.	20.1
Sturdy Grow SG797W	29	71.1	96.4	0.0	70.2	47.7	.	22.2
<i>Trisler T-4215W</i>	30	87.7	95.0	0.0	69.6	45.1	.	26.5
Vineyard V442W	31	68.2	92.3	0.0	77.6	42.6	.	23.4
Vineyard V448W	32	90.3	96.8	0.0	65.1	43.2	.	22.2
Vineyard V449W	33	92.7	94.6	0.0	71.5	45.4	.	22.6
Vineyard V453W	34	74.2	93.7	0.0	69.1	39.9	.	21.4
Whisnand 51AW	35	82.5	94.1	0.0	73.7	51.5	.	20.4
<i>Whisnand 52AW</i>	36	81.3	95.0	0.0	83.9	46.0	.	19.7
<i>Whisnand 92AW</i>	37	74.9	91.9	0.0	83.3	44.2	.	26.5
<i>Wilson E1789</i>	38	79.8	91.0	0.0	85.9	45.0	.	24.0
Zimmerman Z62W	39	86.0	95.5	0.0	58.6	49.5	.	20.6
Zimmerman Z64W	40	90.3	95.0	0.0	62.4	50.1	.	22.5
<i>Zimmerman Z71W</i>	41	93.3	92.3	0.0	75.3	53.2	.	24.1
<i>Zimmerman Z72W</i>	42	67.1	95.0	0.0	76.2	48.5	.	21.2
<i>Zimmerman Z73W</i>	43	80.2	91.9	0.0	86.3	54.1	.	19.6
White check (K55 × CI66)FR802W	44	49.4	79.7	0.0	79.1	55.0	.	28.5
Yellow check B73 × Mo17	45	90.6	89.6	0.0	70.4	46.4	.	20.6

Table 5. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Yellow check Pioneer Brand 3245	46	110.7	97.3	0.0	59.8	39.9	.	20.1
Yellow check Pioneer Brand 3394	47	100.3	96.8	0.0	57.7	41.7	.	17.8
Mean		82.1	92.9	0.0	73.7	47.1	.	22.5
LSD 0.05		15.2	6.0	ns	17.5	4.0		1.5
CV%		11.3	4.0		14.5	5.2		4.2

Table 6. Yield and agronomic data from the 1996 Late White Food Corn Performance Test at Scandia, KS. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>Asgrow XP9465W</i>	1	204.3	94.4	2.1	0.0	47.0	77.3	17.5
DEKALB Genetics DK703W	2	180.0	95.4	7.8	0.0	52.0	77.0	16.8
<i>DEKALB Genetics DK631W</i>	3	221.1	90.3	0.0	0.0	40.0	75.0	16.0
<i>DEKALB Genetics EXP564W</i>	4	174.9	89.4	0.0	0.0	42.3	80.0	15.4
<i>DEKALB Genetics EXP664W</i>	5	174.3	96.3	1.0	0.0	48.3	79.7	16.5
<i>Genetic Resources GRI95203</i>	6	164.3	89.8	0.0	0.0	52.3	78.7	17.4
<i>Genetic Resources GRI96515</i>	7	144.0	90.3	0.0	0.0	43.7	80.0	16.6
ICI Seeds 8317W	8	187.3	98.6	0.0	0.0	43.7	78.0	16.0
ICI Seeds 8320W	9	165.7	94.4	0.0	0.0	47.0	78.7	16.2
IFSI 90-1	10	179.7	88.9	0.0	0.0	48.3	78.0	15.6
IFSI 90-4	11	166.1	92.1	0.0	0.0	41.0	74.7	19.0
IFSI 94-3	12	168.8	90.3	2.7	0.0	46.3	76.7	19.2
IFSI 95-1	13	186.6	89.4	0.0	0.0	48.0	75.3	18.9
Golden Harvest H-2633W	14	191.3	87.0	0.0	0.0	40.0	75.7	18.5
LG Seeds NB749W	15	190.8	97.2	0.0	0.0	50.7	78.7	17.1
<i>NC+ 6555W</i>	16	174.5	93.1	5.7	0.0	50.7	78.0	16.3
<i>NC+ 6989W</i>	17	193.8	94.9	3.0	0.0	51.0	78.0	18.5
Northrup King N7580W	18	141.8	93.5	0.0	0.0	49.3	80.0	16.9
<i>Northrup King X6545W</i>	19	138.0	98.6	5.2	0.0	44.7	79.0	14.7
<i>Northrup King X6955W</i>	20	185.9	89.4	3.2	0.0	42.0	77.3	15.0
Pioneer Brand 3203W	21	212.8	100.9	0.0	0.0	45.0	78.3	17.0
Pioneer Brand 3281W	22	206.6	92.6	0.0	0.0	47.7	78.0	16.0
Pioneer Brand 3287W	23	212.7	92.1	0.0	0.0	40.7	75.0	16.6
<i>Pioneer Brand X1155FW</i>	24	225.9	93.1	0.0	0.0	43.3	73.3	15.3
<i>SeedTec ST-7585W</i>	25	147.3	89.4	16.1	0.0	55.7	79.0	16.4
<i>SeedTec ST-7590W</i>	26	142.3	86.6	0.0	0.0	51.3	79.7	17.9
Sturdy Grow SG765W	27	193.2	89.4	2.7	0.0	49.7	78.3	14.7
Sturdy Grow SG777W	28	186.4	93.5	0.0	0.0	51.7	76.3	14.8
Sturdy Grow SG797W	29	170.1	96.3	3.1	0.0	42.7	78.3	16.0
<i>Trisler T-4215W</i>	30	168.4	90.3	2.6	0.0	43.0	75.0	19.8
Vineyard V442W	31	191.2	91.2	0.0	0.0	42.7	77.0	17.4
Vineyard V448W	32	205.4	96.3	0.0	0.0	42.7	77.7	16.3
Vineyard V449W	33	207.2	94.9	0.0	0.0	49.3	77.7	16.7
Vineyard V453W	34	210.8	93.1	0.0	0.0	42.0	77.3	16.1
Whisnand 51AW	35	176.2	91.2	0.0	0.0	47.0	77.0	15.2
<i>Whisnand 52AW</i>	36	195.7	89.4	0.0	0.0	47.3	76.0	15.3
<i>Whisnand 92AW</i>	37	187.3	91.7	3.2	0.0	48.0	78.3	20.0
<i>Wilson E1789</i>	38	184.2	101.4	0.0	0.0	50.0	79.7	17.8
Zimmerman Z62W	39	169.4	97.2	0.0	0.0	46.0	79.7	14.7
Zimmerman Z64W	40	153.5	94.0	3.9	0.0	52.7	78.7	17.0
<i>Zimmerman Z71W</i>	41	176.5	96.3	11.9	0.0	52.0	78.7	18.1
<i>Zimmerman Z72W</i>	42	141.4	98.6	11.3	0.0	54.3	79.0	15.7
<i>Zimmerman Z73W</i>	43	184.5	88.0	7.6	0.0	50.0	80.0	15.0
White check (K55 × CI66)FR802W	44	127.6	87.0	9.5	0.0	52.3	80.0	19.9
Yellow check B73 × Mo17	45	193.5	91.7	0.0	0.0	42.0	75.7	16.4

Table 6. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Yellow check Pioneer Brand 3245	46	239.4	94.4	0.0	0.0	42.7	77.7	15.5
Yellow check Pioneer Brand 3394	47	219.6	90.7	1.9	0.0	44.0	73.3	14.6
Mean		182.2	92.9	2.2	0.0	46.9	77.7	16.7
LSD 0.05		15.2	7.0	5.9	ns	4.3	2.1	1.2
CV%		5.1	4.6	161.9		5.6	1.7	4.4

Table 7. Yield and agronomic data from the 1996 Late White Food Corn Performance Test at Topeka, KS. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>Asgrow XP9465W</i>	1	206.4	97.2	0.0	0.0	47.3	80.0	23.9
DEKALB Genetics DK703W	2	190.7	95.4	1.0	0.0	45.7	80.7	22.9
<i>DEKALB Genetics DK631W</i>	3	159.6	89.8	0.0	0.0	36.7	75.7	20.6 [†]
<i>DEKALB Genetics EXP564W</i>	4	219.3	94.0	0.0	0.0	52.0	80.3	21.9
<i>DEKALB Genetics EXP664W</i>	5	196.5	97.2	0.0	1.0	47.3	80.0	22.5
<i>Genetic Resources GRI95203</i>	6	182.8	92.6	1.5	2.4	55.3	81.0	22.8
<i>Genetic Resources GRI96515</i>	7	202.2	92.6	0.0	1.9	49.0	80.3	22.2
ICI Seeds 8317W	8	197.3	97.2	0.0	0.0	50.3	79.7	22.2
ICI Seeds 8320W	9	189.0	94.0	1.0	0.0	48.0	82.7	22.1
IFSI 90-1	10	202.6	97.2	0.0	0.5	52.3	82.0	22.8 [†]
IFSI 90-4	11	191.7	95.8	0.0	0.0	44.7	76.7	23.5
IFSI 94-3	12	223.0	97.7	0.0	0.0	46.3	78.7	26.1
IFSI 95-1	13	206.1	96.8	0.0	0.5	49.0	79.7	23.6
Golden Harvest H-2633W	14	177.3	88.9	0.0	0.0	50.0	78.7	23.1
LG Seeds NB749W	15	199.2	94.4	0.0	1.0	48.7	81.0	22.4
<i>NC+ 6555W</i>	16	183.8	94.0	3.9	0.5	51.3	81.3	22.7
<i>NC+ 6989W</i>	17	213.9	96.8	0.5	0.5	51.3	81.0	24.1 [†]
Northrup King N7580W	18	197.0	96.8	0.5	1.0	48.3	80.3	22.7
<i>Northrup King X6545W</i>	19	200.4	91.7	0.0	0.0	51.7	79.0	21.1
<i>Northrup King X6955W</i>	20	186.3	86.6	1.0	0.0	49.7	79.0	21.6
Pioneer Brand 3203W	21	208.4	95.4	1.0	0.0	51.7	80.3	24.6
Pioneer Brand 3281W	22	196.3	96.8	0.0	0.0	45.0	80.0	21.0
Pioneer Brand 3287W	23	181.2	97.2	0.0	0.0	44.3	75.0	21.7
<i>Pioneer Brand X1155FW</i>	24	207.9	99.1	0.9	0.0	47.0	75.3	21.8
<i>SeedTec ST-7585W</i>	25	222.1	94.4	0.0	0.5	53.0	80.7	23.5
<i>SeedTec ST-7590W</i>	26	206.6	93.5	0.0	0.0	53.7	85.7	26.3 [†]
Sturdy Grow SG765W	27	210.9	97.7	0.0	0.0	52.3	79.7	20.9
Sturdy Grow SG777W	28	205.7	97.2	0.9	0.0	48.3	78.7	21.7
Sturdy Grow SG797W	29	190.2	95.4	1.0	0.0	52.0	83.0	23.9 [†]
<i>Trisler T-4215W</i>	30	191.5	89.8	0.0	1.4	47.7	79.3	26.9
Vineyard V442W	31	176.3	88.0	0.6	0.0	46.0	78.0	22.2
Vineyard V448W	32	189.8	97.2	0.5	0.0	48.0	78.7	24.0
Vineyard V449W	33	194.0	95.4	0.0	0.5	46.7	82.3	23.1
Vineyard V453W	34	196.2	97.2	0.0	0.0	48.0	80.3	22.4 [†]
Whisnand 51AW	35	201.2	95.8	0.0	1.9	52.0	82.0	23.1 [†]
<i>Whisnand 52AW</i>	36	209.5	94.9	3.6	0.5	47.0	77.3	23.4
<i>Whisnand 92AW</i>	37	185.9	95.4	0.0	0.0	42.7	79.0	27.4
<i>Wilson E1789</i>	38	206.3	96.3	0.5	1.4	51.7	80.7	22.0
Zimmerman Z62W	39	220.8	96.8	0.0	0.4	49.0	79.7	22.1
Zimmerman Z64W	40	230.3	94.9	0.0	0.0	49.7	82.0	23.0
<i>Zimmerman Z71W</i>	41	212.6	100.9	0.0	0.0	49.0	81.3	26.0
<i>Zimmerman Z72W</i>	42	195.4	105.6	0.4	0.0	50.7	81.0	21.4 [†]
<i>Zimmerman Z73W</i>	43	212.5	117.6	0.0	0.8	53.7	82.3	22.3
White check (K55 × CI66)FR802W	44	158.8	69.0	1.6	0.6	53.3	82.7	27.2
Yellow check B73 × Mo17	45	206.5	94.9	0.5	0.5	47.3	79.0	20.6

Table 7. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Yellow check Pioneer Brand 3245	46	219.1	96.8	0.0	0.5	46.0	79.7	21.7
Yellow check Pioneer Brand 3394	47	193.3	99.1	0.0	0.0	47.0	75.3	20.0
Mean		199.0	95.3	0.4	0.4	48.9	79.9	23.0
LSD 0.05		19.9	9.2	ns	ns	6.8	3.0	1.8
CV%		6.1	5.9			8.6	2.3	4.7

† Data from two replications.

Table 8. Yield and agronomic data from the 1996 Late White Food Corn Performance Test at Henderson, KY. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>Asgrow XP9465W</i>	1	150.7	100.0	0.0	0.7	.	.	20.6
DEKALB Genetics DK703W	2	142.8	100.0	0.0	1.4	.	.	19.1
<i>DEKALB Genetics DK631W</i>	3	122.7	100.0	0.0	0.7	.	.	15.5
<i>DEKALB Genetics EXP564W</i>	4	170.7	93.8	0.0	0.0	.	.	16.9
<i>DEKALB Genetics EXP664W</i>	5	161.1	100.0	0.0	0.7	.	.	19.1
<i>Genetic Resources GRI95203</i>	6	149.1	90.3	0.0	0.0	.	.	20.0
<i>Genetic Resources GRI96515</i>	7	162.4	100.0	0.0	0.7	.	.	18.5
ICI Seeds 8317W	8	165.7	100.0	0.0	0.0	.	.	18.8
ICI Seeds 8320W	9	150.2	97.9	0.0	0.0	.	.	17.8
IFSI 90-1	10	175.8	100.0	0.0	0.7	.	.	17.7
IFSI 90-4	11	154.8	95.1	0.0	0.0	.	.	20.9
IFSI 94-3	12	160.4	100.0	0.0	0.0	.	.	23.2
IFSI 95-1	13	159.9	100.0	0.0	0.7	.	.	21.4
Golden Harvest H-2633W	14	124.4	92.4	0.0	0.0	.	.	22.7
LG Seeds NB749W	15	167.8	100.0	0.0	0.0	.	.	17.8
<i>NC+ 6555W</i>	16	146.7	93.8	0.0	0.0	.	.	18.9
<i>NC+ 6989W</i>	17	166.5	100.0	0.0	0.0	.	.	20.8
Northrup King N7580W	18	144.9	100.0	0.0	0.0	.	.	18.4
<i>Northrup King X6545W</i>	19	164.2	100.0	0.0	0.7	.	.	17.9
<i>Northrup King X6955W</i>	20	164.9	100.0	0.0	0.7	.	.	18.2
Pioneer Brand 3203W	21	160.8	100.0	0.0	2.1	.	.	19.6
Pioneer Brand 3281W	22	135.1	100.0	0.0	0.0	.	.	19.1
Pioneer Brand 3287W	23	149.4	100.0	0.0	0.0	.	.	17.2
<i>Pioneer Brand X1155FW</i>	24	165.2	100.0	0.0	0.0	.	.	16.8
<i>SeedTec ST-7585W</i>	25	168.7	100.0	0.0	4.9	.	.	20.5
<i>SeedTec ST-7590W</i>	26	146.8	100.0	0.0	0.7	.	.	21.8
Sturdy Grow SG765W	27	168.7	100.0	0.0	0.0	.	.	16.7
Sturdy Grow SG777W	28	155.5	100.0	0.0	0.0	.	.	17.6
Sturdy Grow SG797W	29	154.9	97.9	0.0	0.7	.	.	18.9
<i>Trisler T-4215W</i>	30	166.3	100.0	0.0	0.0	.	.	21.5
Vineyard V442W	31	140.8	100.0	0.0	0.7	.	.	19.0
Vineyard V448W	32	147.4	100.0	0.0	0.0	.	.	17.9
Vineyard V449W	33	161.1	100.0	0.0	0.0	.	.	18.8
Vineyard V453W	34	151.2	100.0	0.0	0.0	.	.	17.2
Whisnand 51AW	35	152.9	95.1	0.0	0.0	.	.	17.8
<i>Whisnand 52AW</i>	36	151.8	100.0	0.0	0.0	.	.	15.7
<i>Whisnand 92AW</i>	37	160.4	100.0	0.0	0.0	.	.	22.7
<i>Wilson E1789</i>	38	142.7	100.0	0.0	0.7	.	.	19.1
Zimmerman Z62W	39	176.3	96.5	0.0	0.0	.	.	17.7
Zimmerman Z64W	40	183.4	100.0	0.0	0.0	.	.	21.0
<i>Zimmerman Z71W</i>	41	163.5	100.0	0.0	0.0	.	.	23.3
<i>Zimmerman Z72W</i>	42	153.2	97.2	0.0	0.0	.	.	17.8
<i>Zimmerman Z73W</i>	43	162.8	100.0	0.0	0.0	.	.	17.0
White check (K55 × CI66)FR802W	44	131.8	94.4	0.0	0.7	.	.	21.9
Yellow check B73 × Mo17	45	160.2	100.0	0.0	0.0	.	.	15.3

Table 8. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Yellow check Pioneer Brand 3245	46	163.9	100.0	0.0	0.0	.	.	17.4
Yellow check Pioneer Brand 3394	47	170.0	100.0	0.0	0.0	.	.	14.5
Mean		156.4	98.8	0.0	0.4	.	.	18.9
LSD 0.05		23.0	ns	ns	1.4			1.5
CV%		9.0			234.6			4.8

Table 9. Yield and agronomic data from the 1996 Late White Food Corn Performance Test at Lexington, KY. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>Asgrow XP9465W</i>	1	180.8	100.0	0.0	1.9	39.8	66.0	19.0
DEKALB Genetics DK703W	2	166.8	100.0	1.9	8.3	41.5	65.3	17.2
<i>DEKALB Genetics DK631W</i>	3	157.8	100.0	0.0	10.6	31.2	62.0	15.4
<i>DEKALB Genetics EXP564W</i>	4	164.1	100.0	0.0	2.3	43.0	67.0	16.0
<i>DEKALB Genetics EXP664W</i>	5	157.1	100.0	0.0	3.7	44.3	65.3	17.2
<i>Genetic Resources GRI95203</i>	6	161.6	100.0	3.7	17.1	46.5	68.0	17.1
<i>Genetic Resources GRI96515</i>	7	174.5	100.0	0.0	4.2	40.6	66.0	16.9
ICI Seeds 8317W	8	166.3	100.0	0.0	5.6	42.9	66.3	17.1
ICI Seeds 8320W	9	165.5	100.0	1.4	9.3	41.5	64.7	17.1
IFSI 90-1	10	173.0	100.0	2.3	6.9	44.3	64.0	16.4
IFSI 90-4	11	171.6	100.0	0.0	10.2	36.9	64.0	17.9
IFSI 94-3	12	180.7	100.0	0.0	7.4	37.7	66.3	20.7
IFSI 95-1	13	161.1	100.0	0.0	3.7	40.8	67.0	19.8
Golden Harvest H-2633W	14	172.6	100.0	0.0	10.2	39.0	64.0	18.4
LG Seeds NB749W	15	172.6	100.0	0.0	2.3	44.6	66.0	16.9
<i>NC+ 6555W</i>	16	177.3	100.0	0.5	6.0	43.6	66.0	17.7
<i>NC+ 6989W</i>	17	167.6	100.0	0.5	7.4	43.8	66.0	18.2
Northrup King N7580W	18	154.7	100.0	4.2	3.7	40.7	66.0	17.5
<i>Northrup King X6545W</i>	19	175.2	100.0	0.0	6.9	45.0	64.0	16.3
<i>Northrup King X6955W</i>	20	174.4	100.0	1.4	9.3	45.6	64.0	16.2
Pioneer Brand 3203W	21	203.5	100.0	0.0	6.5	43.2	65.3	17.9
Pioneer Brand 3281W	22	195.6	100.0	0.0	2.8	41.3	66.0	17.4
Pioneer Brand 3287W	23	165.0	100.0	0.0	0.9	37.1	62.0	16.6
<i>Pioneer Brand X1155FW</i>	24	180.0	100.0	0.0	4.2	35.8	62.0	16.5
<i>SeedTec ST-7585W</i>	25	168.2	100.0	0.0	5.6	45.4	66.0	17.8
<i>SeedTec ST-7590W</i>	26	158.4	100.0	0.9	11.1	44.2	69.0	18.3
Sturdy Grow SG765W	27	179.6	100.0	5.1	3.7	43.4	64.7	16.0
Sturdy Grow SG777W	28	163.4	100.0	1.9	5.6	44.5	65.3	17.4
Sturdy Grow SG797W	29	162.2	100.0	0.0	3.2	50.3	66.0	17.6
<i>Trisler T-4215W</i>	30	183.0	100.0	0.0	13.0	40.4	64.0	20.3
Vineyard V442W	31	146.5	100.0	2.8	5.1	39.8	64.0	16.1
Vineyard V448W	32	174.5	100.0	0.0	4.2	44.3	64.7	17.3
Vineyard V449W	33	185.0	100.0	0.9	1.9	39.7	64.0	16.5
Vineyard V453W	34	173.7	100.0	0.0	3.7	38.5	64.0	16.3
Whisnand 51AW	35	180.3	100.0	2.3	4.6	41.5	66.3	16.8
<i>Whisnand 52AW</i>	36	166.7	100.0	0.0	8.3	39.7	64.7	15.7
<i>Whisnand 92AW</i>	37	167.8	100.0	0.0	5.1	40.4	64.7	20.8
<i>Wilson E1789</i>	38	160.4	100.0	0.0	6.5	45.0	66.0	17.4
Zimmerman Z62W	39	191.1	100.0	0.0	1.4	41.2	66.0	16.8
Zimmerman Z64W	40	173.9	100.0	0.0	2.8	44.7	66.0	18.1
<i>Zimmerman Z71W</i>	41	160.9	100.0	0.0	4.2	41.3	66.0	20.9
<i>Zimmerman Z72W</i>	42	180.1	100.0	0.0	2.8	42.6	66.0	16.9
<i>Zimmerman Z73W</i>	43	148.9	100.0	0.0	0.5	46.2	68.0	16.6
White check (K55 × CI66)FR802W	44	128.4	100.0	3.7	14.4	46.9	67.7	20.4
Yellow check B73 × Mo17	45	173.0	100.0	0.0	3.7	44.5	64.0	13.6

Table 9. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Yellow check Pioneer Brand 3245	46	192.1	100.0	0.9	6.5	38.7	64.7	15.9
Yellow check Pioneer Brand 3394	47	181.8	100.0	0.0	9.3	40.3	63.3	14.0
Mean		170.6	100.0	0.7	5.9	42.0	65.3	17.3
LSD 0.05		24.3	ns	3.0	6.4	6.4	1.7	1.1
CV%		8.7		248.3	66.5	9.3	1.6	3.9

Table 10. Yield and agronomic data from the 1996 Late White Food Corn Performance Test at Columbia, MO[†]. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>Asgrow XP9465W</i>	1	152.7	100.0	1.0	1.0	40.0	66.5	25.0
DEKALB Genetics DK703W	2	159.8	95.0	1.0	0.0	44.9	66.0	22.1
<i>DEKALB Genetics DK631W</i>	3	133.4	86.0	0.0	4.7	33.2	64.0	22.4
<i>DEKALB Genetics EXP564W</i>	4	186.1	93.0	0.0	0.0	41.0	66.0	21.5
<i>DEKALB Genetics EXP664W</i>	5	174.7	100.0	0.0	2.0	43.9	67.5	21.8
<i>Genetic Resources GRI95203</i>	6	165.6	89.0	6.0	10.1	49.7	67.5	23.1
<i>Genetic Resources GRI96515</i>	7	184.0	87.0	0.0	0.0	44.9	68.5	24.4
ICI Seeds 8317W	8	158.7	86.0	0.0	3.8	41.9	67.5	22.8
ICI Seeds 8320W	9	134.0	90.0	0.0	1.1	41.0	66.0	20.6
IFSI 90-1	10	171.6	95.0	0.0	3.1	41.0	65.0	21.0
IFSI 90-4	11	162.5	90.0	1.1	3.4	39.0	64.0	23.9
IFSI 94-3	12	176.6	100.0	0.0	4.0	40.0	66.0	23.3
IFSI 95-1	13	180.8	100.0	0.0	2.0	37.1	66.0	23.4
Golden Harvest H-2633W	14	169.0	99.0	0.0	2.0	36.1	64.0	24.4
LG Seeds NB749W	15	159.3	94.0	0.0	5.3	45.8	68.0	22.6
<i>NC+ 6555W</i>	16	149.7	98.0	0.0	2.0	42.9	67.0	22.6
<i>NC+ 6989W</i>	17	162.1	94.0	0.0	2.2	42.9	67.0	23.6
Northrup King N7580W [‡]	18	161.9	90.0	0.0	0.0	42.9	67.0	23.5
<i>Northrup King X6545W</i>	19	151.0	90.0	0.0	4.4	44.9	65.5	21.1
<i>Northrup King X6955W</i>	20	167.8	100.0	0.0	5.0	41.0	67.0	20.8
Pioneer Brand 3203W	21	178.1	100.0	0.0	0.0	39.0	67.0	21.8
Pioneer Brand 3281W	22	147.6	89.0	0.0	1.1	39.0	66.5	22.9
Pioneer Brand 3287W	23	156.0	93.0	0.0	1.1	40.0	64.0	22.3
<i>Pioneer Brand X1155FW</i>	24	133.8	95.0	5.3	1.1	41.9	64.0	21.1
<i>SeedTec ST-7585W</i>	25	165.1	89.0	0.0	2.3	44.9	67.0	24.4
<i>SeedTec ST-7590W</i>	26	143.9	91.0	0.0	0.0	42.9	70.5	25.2
Sturdy Grow SG765W	27	162.5	97.0	0.0	2.0	44.9	67.0	20.3
Sturdy Grow SG777W	28	146.6	96.0	1.1	1.1	44.9	67.0	21.2
Sturdy Grow SG797W	29	133.7	100.0	0.0	2.0	43.9	68.5	22.3
<i>Trisler T-4215W</i>	30	195.3	95.0	0.0	3.1	39.0	64.5	22.4
Vineyard V442W	31	131.7	73.0	1.4	4.1	40.0	66.5	23.4
Vineyard V448W	32	157.7	90.0	0.0	1.2	44.9	65.0	22.1
Vineyard V449W	33	160.3	94.0	0.0	3.2	42.9	66.5	22.4
Vineyard V453W	34	158.9	89.0	0.0	0.0	41.9	66.0	22.7
Whisnand 51AW	35	157.4	100.0	1.0	4.0	43.9	65.5	22.1
<i>Whisnand 52AW</i>	36	161.9	98.0	1.0	6.2	39.0	64.5	21.2
Whisnand 92AW	37	155.2	98.0	0.0	4.0	39.0	64.5	25.0
<i>Wilson E1789</i>	38	131.7	96.0	0.0	4.2	41.0	68.0	21.0
Zimmerman Z62W	39	169.1	97.0	0.0	4.1	41.0	67.5	20.9
Zimmerman Z64W	40	175.3	96.0	0.0	2.1	46.8	66.0	21.6
<i>Zimmerman Z71W</i>	41	171.1	98.0	0.0	2.0	44.9	66.0	23.4
<i>Zimmerman Z72W</i>	42	159.3	90.0	0.0	1.1	44.9	67.0	22.2
<i>Zimmerman Z73W</i>	43	173.3	88.0	2.3	2.2	45.8	68.0	22.4
White check (K55 × CI66)FR802W	44	132.1	84.0	4.9	11.7	49.7	71.5	22.7
Yellow check B73 × Mo17 [‡]	45	162.1	84.0	2.4	0.0	50.7	64.0	21.1

Table 10. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Yellow check Pioneer Brand 3245	46	171.8	88.0	1.1	1.2	37.1	66.5	21.0
Yellow check Pioneer Brand 3394	47	154.2	88.0	1.0	0.0	41.9	64.0	21.5
Mean		159.7	93.0	0.7	2.6	42.3	66.4	22.4
LSD 0.05		33.4	12.1	ns	5.4	4.5	1.7	ns
CV%		10.5	6.5		104.2	5.4	1.3	

† Data from two replications (animal damage).

‡ Data from one replication.

Table 11. Yield and agronomic data from the 1996 Late White Food Corn Performance Test at Grand Pass, MO. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>Asgrow XP9465W</i>	1	169.9	97.4	0.0	4.5	54.6	.	17.2
DEKALB Genetics DK703W	2	113.6	93.6	0.0	4.7	57.2	.	15.7
<i>DEKALB Genetics DK631W</i>	3	129.4	96.8	0.0	7.3	42.9	.	15.1
<i>DEKALB Genetics EXP564W</i>	4	109.1	87.2	0.7	1.5	57.2	.	14.6
<i>DEKALB Genetics EXP664W</i>	5	99.0	96.2	0.0	5.3	60.5	.	15.4
<i>Genetic Resources GRI95203</i>	6	121.6	94.9	8.1	14.1	62.4	.	17.2
<i>Genetic Resources GRI96515</i>	7	107.5	91.0	1.4	6.4	61.1	.	16.1
ICI Seeds 8317W	8	115.7	94.9	0.0	2.8	59.8	.	15.2
ICI Seeds 8320W	9	91.1	95.5	1.3	2.7	63.7	.	15.5
IFSI 90-1	10	135.0	92.3	1.3	1.5	61.8	.	15.2
IFSI 90-4	11	119.9	97.4	0.0	4.6	55.9	.	17.1
IFSI 94-3	12	102.4	94.9	0.7	10.7	54.6	.	16.8 [†]
IFSI 95-1	13	123.2	90.4	2.6	1.3	55.9	.	16.7
Golden Harvest H-2633W	14	124.7	100.0	0.6	12.8	52.0	.	16.8
LG Seeds NB749W	15	108.1	96.8	0.7	4.6	58.5	.	15.6
<i>NC+ 6555W</i>	16	109.2	100.0	1.9	4.5	57.2	.	15.5
<i>NC+ 6989W</i>	17	160.5	98.7	5.2	9.0	57.2	.	17.3
Northrup King N7580W	18	118.2	98.7	0.0	5.2	57.2	.	15.7
<i>Northrup King X6545W</i>	19	90.3	98.7	0.0	12.9	61.1	.	15.0
<i>Northrup King X6955W</i>	20	75.4	89.1	0.0	6.5	55.3	.	15.1
Pioneer Brand 3203W	21	108.6	96.8	0.0	11.9	58.5	.	16.1
Pioneer Brand 3281W	22	101.2	89.7	2.1	11.1	53.3	.	15.3
Pioneer Brand 3287W	23	163.3	95.5	3.4	4.8	52.0	.	16.5
<i>Pioneer Brand X1155FW</i>	24	193.3	98.1	7.7	11.0	54.6	.	16.4
<i>SeedTec ST-7585W</i>	25	165.7	85.9	0.0	2.9	59.2	.	16.1
<i>SeedTec ST-7590W</i>	26	120.1	78.2	0.0	8.1	57.2	.	17.4
Sturdy Grow SG765W	27	105.8	95.5	1.3	10.3	55.3	.	14.9
Sturdy Grow SG777W	28	71.7	100.0	1.3	2.6	64.4	.	15.6
Sturdy Grow SG797W	29	120.4	95.5	0.0	4.0	57.2	.	15.4
<i>Trisler T-4215W</i>	30	96.4	97.4	0.0	9.9	54.6	.	17.0
Vineyard V442W	31	109.1	92.3	5.3	20.3	55.9	.	17.2
Vineyard V448W	32	154.9	95.5	1.3	8.0	54.6	.	15.6
Vineyard V449W	33	146.9	98.1	6.6	10.5	55.9	.	16.1
Vineyard V453W	34	122.6	89.7	0.0	6.0	57.2	.	15.6
Whisnand 51AW	35	84.3	95.5	0.0	2.8	59.8	.	15.3
<i>Whisnand 52AW</i>	36	86.4	92.9	0.7	6.9	59.8	.	15.2
<i>Whisnand 92AW</i>	37	155.9	97.4	0.6	2.0	58.5	.	17.8
<i>Wilson E1789</i>	38	102.2	98.7	0.0	5.1	61.1	.	14.9 [†]
Zimmerman Z62W	39	143.5	90.4	0.0	2.2	58.5	.	15.1
Zimmerman Z64W	40	168.8	99.4	0.7	4.5	62.4	.	16.3
<i>Zimmerman Z71W</i>	41	154.2	92.9	0.7	6.9	61.1	.	17.1
<i>Zimmerman Z72W</i>	42	95.7	91.7	0.8	0.8	59.8	.	15.0
<i>Zimmerman Z73W</i>	43	122.5	88.5	0.0	3.0	54.6	.	13.8
White check (K55 × CI66)FR802W	44	89.6	75.0	2.6	16.3	67.0	.	16.6
Yellow check B73 × Mo17	45	81.3	89.7	0.0	3.1	54.6	.	15.0

Table 11. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Yellow check Pioneer Brand 3245	46	172.0	90.4	0.0	6.4	52.0	.	15.1
Yellow check Pioneer Brand 3394	47	125.4	90.4	0.6	3.6	52.0	.	14.3
Mean		121.0	93.7	1.3	6.5	57.4	.	15.9
LSD 0.05		42.3	10.3	3.3	8.0	4.2		1.0
CV%		21.4	6.7	159.3	74.8	4.5		4.0

† Data from two replications.

Table 12. Yield and agronomic data from the 1996 Late White Food Corn Performance Test at Knoxville, TN. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>Asgrow XP9465W</i>	1	130.9	93.9	0.0	0.6	41.3	68.3	22.2
DEKALB Genetics DK703W	2	149.8	97.8	0.0	0.0	43.0	69.3	21.3
<i>DEKALB Genetics DK631W</i>	3	147.8	93.9	0.0	0.6	37.0	66.7	19.7
<i>DEKALB Genetics EXP564W</i>	4	181.7	91.1	0.0	0.0	52.0	68.0	19.3
<i>DEKALB Genetics EXP664W</i>	5	130.0	95.0	0.0	0.0	44.0	70.0	21.3
<i>Genetic Resources GRI95203</i>	6	157.9	93.3	0.0	0.7	51.7	70.7	20.2
<i>Genetic Resources GRI96515</i>	7	144.1	97.2	0.0	0.6	44.0	70.7	21.0
ICI Seeds 8317W	8	135.4	92.2	0.0	0.0	47.3	68.3	21.8
ICI Seeds 8320W	9	120.8	87.2	0.0	0.6	49.3	69.3	20.4
IFSI 90-1	10	128.6	94.4	0.0	0.6	47.3	69.0	20.8
IFSI 90-4	11	173.3	96.7	0.0	0.0	43.3	66.3	22.3
IFSI 94-3	12	147.6	86.7	0.0	0.6	48.0	68.0	23.5
IFSI 95-1	13	105.6	97.8	0.0	0.0	44.0	69.3	23.4
Golden Harvest H-2633W	14	119.2	93.3	0.0	0.6	38.0	68.0	21.3
LG Seeds NB749W	15	124.4	97.2	0.0	0.0	39.7	69.7	20.8
<i>NC+ 6555W</i>	16	122.0	93.9	0.0	0.0	44.0	71.0	21.3
<i>NC+ 6989W</i>	17	144.7	88.3	0.0	0.0	46.0	69.7	22.0
Northrup King N7580W	18	133.2	93.9	0.0	0.0	45.7	70.3	21.8
<i>Northrup King X6545W</i>	19	145.5	95.0	0.0	0.6	45.0	66.3	19.9
<i>Northrup King X6955W</i>	20	166.0	96.7	0.0	1.2	51.0	68.0	20.1
Pioneer Brand 3203W	21	186.5	97.8	0.0	0.6	46.3	71.0	20.9
Pioneer Brand 3281W	22	151.9	97.2	0.0	0.0	47.3	69.0	21.6
Pioneer Brand 3287W	23	133.5	101.1	0.0	0.0	47.0	64.7	20.0
<i>Pioneer Brand X1155FW</i>	24	170.8	97.8	0.0	0.0	47.3	65.3	19.7
<i>SeedTec ST-7585W</i>	25	132.9	94.4	0.0	0.0	45.0	69.3	20.8
<i>SeedTec ST-7590W</i>	26	142.7	86.7	0.0	0.0	46.3	74.3	22.8
Sturdy Grow SG765W	27	168.9	97.2	0.0	1.1	50.0	68.7	20.7
Sturdy Grow SG777W	28	138.0	91.7	0.0	0.0	44.0	69.7	20.3
Sturdy Grow SG797W	29	135.3	96.1	0.0	0.6	48.0	70.3	21.4
<i>Trisler T-4215W</i>	30	176.2	96.1	0.0	0.0	42.7	69.3	23.5
Vineyard V442W	31	124.8	93.9	0.0	1.2	43.3	67.0	22.0
Vineyard V448W	32	164.0	95.6	0.0	0.0	42.7	66.7	19.8
Vineyard V449W	33	135.3	98.9	0.0	0.0	42.0	68.7	21.1
Vineyard V453W	34	182.1	98.9	0.0	0.0	43.3	66.3	19.3
Whisnand 51AW	35	147.7	96.1	0.0	0.0	45.0	69.3	20.9
<i>Whisnand 52AW</i>	36	157.8	95.6	0.0	0.6	45.7	68.3	21.6
Whisnand 92AW	37	137.2	98.3	0.0	0.0	45.7	69.7	23.7
<i>Wilson E1789</i>	38	159.1	93.3	0.0	1.2	45.0	71.0	20.9
Zimmerman Z62W	39	172.8	93.9	0.0	1.8	48.0	67.3	19.6
Zimmerman Z64W	40	113.7	97.8	0.0	1.1	47.0	69.0	21.2
<i>Zimmerman Z71W</i>	41	134.4	95.0	0.0	0.0	47.3	72.0	22.0
<i>Zimmerman Z72W</i>	42	134.5	94.4	0.0	0.0	43.0	71.7	19.9
<i>Zimmerman Z73W</i>	43	137.6	97.8	0.0	0.6	48.7	72.3	19.7
White check (K55 × CI66)FR802W	44	130.6	83.3	0.0	3.7	48.0	73.7	22.6
Yellow check B73 × Mo17	45	111.4	94.4	0.6	0.0	46.7	65.7	17.8

Table 12. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Yellow check Pioneer Brand 3245	46	155.6	96.1	0.0	1.2	45.0	69.7	18.1
Yellow check Pioneer Brand 3394	47	178.6	95.0	0.0	0.0	47.3	64.7	17.2
Mean		145.2	94.7	0.0	0.4	45.5	69.0	20.9
LSD 0.05		34.2	ns	ns	1.5	4.1	2.0	1.5
CV%		14.4			221.5	5.6	1.7	4.3

Table 13. Yield and agronomic data from the 1996 Late White Food Corn Performance Test at Union City, TN. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>Asgrow XP9465W</i>	1	160.8	100.0	.	.	.	.	24.5
DEKALB Genetics DK703W	2	174.4	100.0	.	.	.	.	21.0
<i>DEKALB Genetics DK631W</i>	3	147.4	100.0	.	.	.	.	19.1
<i>DEKALB Genetics EXP564W</i>	4	197.0	100.0	.	.	.	.	19.6
<i>DEKALB Genetics EXP664W</i>	5	171.5	100.0	.	.	.	.	20.9
<i>Genetic Resources GRI95203</i>	6	174.2	100.0	.	.	.	.	21.2
<i>Genetic Resources GRI96515</i>	7	175.9	100.0	.	.	.	.	20.6
ICI Seeds 8317W	8	177.9	100.0	.	.	.	.	21.0
ICI Seeds 8320W	9	182.8	100.0	.	.	.	.	20.4
IFSI 90-1	10	198.6	100.0	.	.	.	.	20.2
IFSI 90-4	11	164.6	100.0	.	.	.	.	23.4
IFSI 94-3	12	192.2	100.0	.	.	.	.	24.9
IFSI 95-1	13	180.4	100.0	.	.	.	.	22.6
Golden Harvest H-2633W	14	174.0	100.0	.	.	.	.	23.1
LG Seeds NB749W	15	178.1	100.0	.	.	.	.	21.1
<i>NC+ 6555W</i>	16	164.9	100.0	.	.	.	.	21.2
<i>NC+ 6989W</i>	17	177.5	100.0	.	.	.	.	23.7
Northrup King N7580W	18	172.4	100.0	.	.	.	.	21.5
<i>Northrup King X6545W</i>	19	178.1	100.0	.	.	.	.	19.6
<i>Northrup King X6955W</i>	20	178.9	100.0	.	.	.	.	19.7
Pioneer Brand 3203W	21	196.8	100.0	.	.	.	.	22.1
Pioneer Brand 3281W	22	177.5	100.0	.	.	.	.	20.9
Pioneer Brand 3287W	23	158.4	100.0	.	.	.	.	20.4
<i>Pioneer Brand X1155FW</i>	24	182.7	100.0	.	.	.	.	20.5
<i>SeedTec ST-7585W</i>	25	201.0	100.0	.	.	.	.	21.4
<i>SeedTec ST-7590W</i>	26	158.7	100.0	.	.	.	.	26.2
Sturdy Grow SG765W	27	177.2	100.0	.	.	.	.	20.0
Sturdy Grow SG777W	28	191.0	100.0	.	.	.	.	20.1
Sturdy Grow SG797W	29	163.5	100.0	.	.	.	.	21.2
<i>Trisler T-4215W</i>	30	209.3	100.0	.	.	.	.	24.7
Vineyard V442W	31	159.3	100.0	.	.	.	.	21.9
Vineyard V448W	32	182.2	100.0	.	.	.	.	20.7
Vineyard V449W	33	175.8	100.0	.	.	.	.	21.0
Vineyard V453W	34	180.5	100.0	.	.	.	.	19.8
Whisnand 51AW	35	182.5	100.0	.	.	.	.	19.7
<i>Whisnand 52AW</i>	36	195.6	100.0	.	.	.	.	19.2
<i>Whisnand 92AW</i>	37	188.0	100.0	.	.	.	.	24.8
<i>Wilson E1789</i>	38	169.4	100.0	.	.	.	.	20.5
Zimmerman Z62W	39	207.0	100.0	.	.	.	.	19.5
Zimmerman Z64W	40	201.8	100.0	.	.	.	.	21.5
<i>Zimmerman Z71W</i>	41	173.8	100.0	.	.	.	.	27.4
<i>Zimmerman Z72W</i>	42	185.4	100.0	.	.	.	.	20.5
<i>Zimmerman Z73W</i>	43	180.1	100.0	.	.	.	.	20.1
White check (K55 × CI66)FR802W	44	156.5	100.0	.	.	.	.	24.0
Yellow check B73 × Mo17	45	160.9	100.0	.	.	.	.	18.8

Table 13. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Yellow check Pioneer Brand 3245	46	207.6	100.0	.	.	.	.	19.5
Yellow check Pioneer Brand 3394	47	169.1	100.0	.	.	.	.	18.2
Mean		179.0	100.0	.	.	.	.	21.4
LSD 0.05		17.6	ns					0.9
CV%		6.0						2.6

Table 14. Yield and agronomic data from the 1996 Late White Food Corn Performance Test at College Station, TX. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>Asgrow XP9465W</i>	1	165.3	101.3	.	.	39.3	85.7	13.8
DEKALB Genetics DK703W	2	96.9	56.7	.	.	41.7	86.0	14.5
<i>DEKALB Genetics DK631W</i>	3	83.8	54.0	.	.	34.0	85.3	12.9
<i>DEKALB Genetics EXP564W</i>	4	170.7	94.0	.	.	39.3	87.0	13.2
<i>DEKALB Genetics EXP664W</i>	5	166.7	102.0	.	.	48.3	85.7	14.2
<i>Genetic Resources GRI95203</i>	6	172.3	102.7	.	.	43.3	86.0	12.7
<i>Genetic Resources GRI96515</i>	7	163.8	90.7	.	.	44.3	88.0	13.2
ICI Seeds 8317W	8	187.4	104.0	.	.	43.7	86.0	13.8
ICI Seeds 8320W	9	171.6	94.7	.	.	47.7	85.3	13.5
IFSI 90-1	10	213.9	102.7	.	.	53.3	84.7	13.6
IFSI 90-4	11	155.0	100.7	.	.	34.7	85.3	13.1
IFSI 94-3	12	201.2	91.3	.	.	40.0	86.3	15.7
IFSI 95-1	13	172.2	86.7	.	.	45.3	87.0	15.7
Golden Harvest H-2633W	14	136.3	96.7	.	.	37.7	86.0	14.5
LG Seeds NB749W	15	177.0	100.0	.	.	37.3	86.3	13.6
<i>NC+ 6555W</i>	16	169.1	103.3	.	.	43.0	86.7	14.0
<i>NC+ 6989W</i>	17	141.9	93.3	.	.	38.7	86.3	13.5
Northrup King N7580W	18	141.0	89.3	.	.	39.0	86.3	13.8
<i>Northrup King X6545W</i>	19	171.9	79.3	.	.	48.0	85.7	12.9
<i>Northrup King X6955W</i>	20	142.3	84.0	.	.	43.3	85.7	13.1
Pioneer Brand 3203W	21	207.5	110.7	.	.	48.3	87.0	13.6
Pioneer Brand 3281W	22	168.5	105.3	.	.	41.7	86.3	13.3
Pioneer Brand 3287W	23	168.5	106.0	.	.	40.7	84.7	13.2
<i>Pioneer Brand X1155FW</i>	24	184.6	106.7	.	.	42.3	85.3	13.0
<i>SeedTec ST-7585W</i>	25	167.9	93.3	.	.	41.0	86.3	13.9
<i>SeedTec ST-7590W</i>	26	181.1	104.0	.	.	45.0	88.7	14.6
Sturdy Grow SG765W	27	166.5	83.3	.	.	44.3	85.7	13.0
Sturdy Grow SG777W	28	164.0	86.0	.	.	44.3	85.3	11.3
Sturdy Grow SG797W	29	171.9	92.7	.	.	44.7	87.7	13.8
<i>Trisler T-4215W</i>	30	123.3	77.3	.	.	43.7	85.7	13.6
Vineyard V442W	31	170.8	90.7	.	.	46.7	86.0	14.9
Vineyard V448W	32	137.5	104.0	.	.	44.7	85.7	13.4
Vineyard V449W	33	101.3	88.7	.	.	38.0	86.3	14.0
Vineyard V453W	34	154.1	88.7	.	.	40.0	86.7	12.7
Whisnand 51AW	35	153.8	78.0	.	.	53.7	85.0	13.5
<i>Whisnand 52AW</i>	36	174.8	84.7	.	.	41.7	85.7	13.1
<i>Whisnand 92AW</i>	37	177.0	98.7	.	.	39.7	86.0	15.2
<i>Wilson E1789</i>	38	142.4	65.3	.	.	39.3	87.7	13.0
Zimmerman Z62W	39	166.8	88.7	.	.	40.7	87.7	13.5
Zimmerman Z64W	40	183.6	92.7	.	.	44.0	86.7	14.2
<i>Zimmerman Z71W</i>	41	180.0	94.7	.	.	44.3	87.0	14.7
<i>Zimmerman Z72W</i>	42	196.1	110.0	.	.	37.7	88.3	13.6
<i>Zimmerman Z73W</i>	43	161.0	91.3	.	.	39.3	88.7	12.5
White check (K55×CI66)FR802W	44	150.3	81.3	.	.	42.0	88.7	15.2
Yellow check B73×Mo17	45	161.3	92.7	.	.	40.3	85.3	12.3

Table 14. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Yellow check Pioneer Brand 3245	46	214.1	102.0	.	.	40.0	86.7	12.8
Yellow check Pioneer Brand 3394	47	159.9	99.3	.	.	41.0	83.7	12.6
Mean		163.6	92.4	.	.	42.4	86.3	13.6
LSD 0.05		36.0	13.2			7.8	1.3	1.2
CV%		13.5	8.7			11.2	0.9	5.5

Table 15. Yield and agronomic data from the 1996 Late White Food Corn Performance Test at Springlake, TX. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height [†] (in)	Days to flower (no)	Moist. (%)
<i>Asgrow XP9465W</i>	1	207.1	98.4 [†]	.	.	37.5	72.0	14.9
DEKALB Genetics DK703W	2	179.5	93.8	.	.	38.0	71.7	17.0
<i>DEKALB Genetics DK631W</i>	3	159.6	95.3	.	.	32.0	70.3 [†]	14.6
<i>DEKALB Genetics EXP564W</i>	4	189.6 [†]	94.7	.	.	41.5	74.0	13.7
<i>DEKALB Genetics EXP664W</i>	5	196.3	100.9	.	.	41.0	72.7	16.8
<i>Genetic Resources GRI95203</i>	6	201.3	92.2	.	.	41.5	74.7	14.4
<i>Genetic Resources GRI96515</i>	7	203.0	92.5	.	.	40.5	74.7	15.1
ICI Seeds 8317W	8	196.6	101.9	.	.	37.5	72.3	15.7
ICI Seeds 8320W	9	201.5 [†]	98.4	.	.	39.0	70.7	15.5
IFSI 90-1	10	202.2	103.4	.	.	41.0	71.0	14.8
IFSI 90-4	11	160.9	89.4	.	.	34.5	70.7	15.5
IFSI 94-3	12	153.5	99.1	.	.	36.0	72.0	17.9
IFSI 95-1	13	193.8	91.9	.	.	40.5	72.7	15.8
Golden Harvest H-2633W	14	187.9	94.1	.	.	33.0	70.0	16.6
LG Seeds NB749W	15	235.2	110.6	.	.	38.0	71.3	15.0
<i>NC+ 6555W</i>	16	200.6	108.4	.	.	41.5	73.3	15.4
<i>NC+ 6989W</i>	17	162.8	96.0	.	.	39.0	70.7	15.1
Northrup King N7580W	18	201.3	96.0 [†]	.	.	38.5	73.3	15.8
<i>Northrup King X6545W</i>	19	170.5	81.3	.	.	40.5	70.0	14.2
<i>Northrup King X6955W</i>	20	193.1	96.0	.	.	41.0	71.7	16.1
Pioneer Brand 3203W	21	209.5	99.4	.	.	36.5	74.0	15.3
Pioneer Brand 3281W	22	161.3	97.2	.	.	36.0	73.0	14.8
Pioneer Brand 3287W	23	170.2	106.5	.	.	37.0	70.3	14.4
<i>Pioneer Brand X1155FW</i>	24	187.6	105.0	.	.	36.5	69.7	14.6
<i>SeedTec ST-7585W</i>	25	203.3	103.4	.	.	44.5	74.0	15.6
<i>SeedTec ST-7590W</i>	26	213.3	104.4	.	.	40.5	78.0	17.0
Sturdy Grow SG765W	27	174.7	92.2	.	.	40.0	70.3	14.0
Sturdy Grow SG777W	28	181.2	99.1	.	.	38.5	71.0	14.3
Sturdy Grow SG797W	29	251.9	101.2	.	.	44.0	72.7	14.8
<i>Trisler T-4215W</i>	30	197.6	98.4	.	.	35.0	70.3	19.2
Vineyard V442W	31	195.3	92.8	.	.	37.0	71.3	15.0
Vineyard V448W	32	181.2	104.7	.	.	36.5	70.0 [†]	15.2
Vineyard V449W	33	193.3	108.7	.	.	34.0	72.7	14.8
Vineyard V453W	34	138.3	92.5	.	.	35.5	70.3	14.4
Whisnand 51AW	35	223.5	104.0	.	.	40.5	71.0	14.5
<i>Whisnand 52AW</i>	36	226.9	96.3	.	.	39.5	71.0	15.1
<i>Whisnand 92AW</i>	37	198.1	104.4	.	.	35.5	71.3	16.8
<i>Wilson E1789</i>	38	222.0	104.7	.	.	44.0	74.3	15.3
Zimmerman Z62W	39	178.2	106.5	.	.	41.0	75.0	14.8
Zimmerman Z64W	40	189.2	112.1	.	.	42.5	75.7	15.2
<i>Zimmerman Z71W</i>	41	195.6	110.6	.	.	39.0	73.7	15.4
<i>Zimmerman Z72W</i>	42	202.5	105.3	.	.	39.0	75.0	14.6
<i>Zimmerman Z73W</i>	43	200.9	105.6 [†]	.	.	41.0	74.0	13.9
White check (K55×CI66)FR802W	44	184.1	88.5	.	.	45.5	78.7	17.4
Yellow check B73×Mo17	45	177.5	104.0	.	.	39.0	71.3	13.0

Table 15. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height [†] (in)	Days to flower (no)	Moist. (%)
Yellow check Pioneer Brand 3245	46	177.4	98.4	.	.	35.0	73.3	13.6
Yellow check Pioneer Brand 3394	47	165.6	108.7	.	.	34.5	69.7	13.7
Mean		191.4	99.8	.	.	38.7	72.4	15.2
LSD 0.05		43.8	13.0			4.9	2.1	1.7
CV%		14.0	8.0			6.4	1.8	7.0

[†] Data from two replications.

Table 16. Combined yield and agronomic data from 13 locations of the 1996 Late White Food Corn Performance Test. New entries for 1996 are in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)	b_1 (bu/a/I)	Std. devn. (bu/a)
<i>Asgrow XP9465W</i>	1	167.3	98.5	0.4	9.3	43.9	73.7	21.6	0.94	18.6
DEKALB Genetics DK703W	2	150.9	94.0	1.3	10.5	45.8	73.7	20.2	0.93	19.3
<i>DEKALB Genetics DK631W</i>	3	140.0	92.4	0.0	12.1	36.5	71.3	18.4	0.78	28.5
<i>DEKALB Genetics EXP564W</i>	4	167.2	94.1	0.1	7.5	46.7	74.6	18.7	1.01	16.1
<i>DEKALB Genetics EXP664W</i>	5	154.6	98.9	0.1	11.1	47.6	74.4	20.1	1.15	9.4
<i>Genetic Resources GRI95203</i>	6	159.4	95.2	2.2	14.9	50.8	75.2	20.3	0.87	9.8
<i>Genetic Resources GRI96515</i>	7	159.3	93.1	0.2	9.4	46.1	75.5	20.5	1.04	16.5
ICI Seeds 8317W	8	159.7	97.8	0.0	10.3	46.4	74.0	20.0	1.10	8.8
ICI Seeds 8320W	9	151.1	96.0	0.4	11.1	47.4	73.9	19.3	1.09	12.9
IFSI 90-1	10	169.1	97.6	0.4	10.0	49.7	73.4	19.2	1.10	18.5
IFSI 90-4	11	158.8	95.2	0.1	8.4	41.4	71.7	21.6	0.67	13.4
IFSI 94-3	12	165.4	96.5	0.4	10.5	44.7	73.4	22.8	1.04	21.6
IFSI 95-1	13	162.4	95.7	0.3	8.5	45.6	73.9	21.9	1.05	15.4
Golden Harvest H-2633W	14	152.2	95.2	0.1	10.9	40.5	72.3	21.8	0.97	15.0
LG Seeds NB749W	15	163.0	99.0	0.1	11.7	46.5	74.4	19.8	1.27	13.5
<i>NC+ 6555W</i>	16	152.7	98.6	1.3	10.3	47.2	74.8	20.1	1.08	9.6
<i>NC+ 6989W</i>	17	160.0	95.9	1.0	10.1	46.5	74.1	21.4	0.81	17.5
Northrup King N7580W	18	147.5	94.7	0.5	10.6	45.9	74.8	20.4	1.04	13.7
<i>Northrup King X6545W</i>	19	152.2	93.4	0.6	11.9	48.4	72.8	18.5	1.09	16.8
<i>Northrup King X6955W</i>	20	158.1	94.8	0.6	11.8	46.5	73.2	19.0	1.15	17.9
Pioneer Brand 3203W	21	176.7	99.8	0.1	11.4	45.6	74.7	20.4	1.24	19.4
Pioneer Brand 3281W	22	156.2	97.0	0.2	9.4	44.8	74.1	19.3	1.00	17.6
Pioneer Brand 3287W	23	159.1	99.4	0.4	7.0	42.2	70.8	19.2	0.61	17.4
<i>Pioneer Brand X1155FW</i>	24	176.5	99.1	1.5	9.1	43.4	70.7	18.8	0.66	22.2
<i>SeedTec ST-7585W</i>	25	166.8	95.6	1.8	6.8	48.8	74.6	20.7	0.87	19.2
<i>SeedTec ST-7590W</i>	26	151.8	92.2	0.1	9.3	47.8	78.0	22.3	1.06	17.5
Sturdy Grow SG765W	27	164.6	95.9	1.0	11.1	47.8	73.5	18.6	1.01	11.9
Sturdy Grow SG777W	28	152.2	96.9	0.6	9.7	48.1	73.3	18.9	1.24	13.7
Sturdy Grow SG797W	29	152.9	96.3	0.4	9.0	48.6	75.2	20.1	1.16	23.9
<i>Trisler T-4215W</i>	30	164.9	95.3	0.3	10.8	43.9	72.6	22.6	1.00	23.7
Vineyard V442W	31	150.7	93.3	1.1	12.1	43.0	72.8	20.4	1.06	15.2
Vineyard V448W	32	163.7	98.8	0.2	8.8	45.1	72.6	19.7	0.79	15.3
Vineyard V449W	33	161.6	97.9	0.8	9.7	43.5	74.0	19.9	0.88	22.8
Vineyard V453W	34	159.9	95.5	0.0	8.7	43.3	73.0	19.3	0.90	21.7
Whisnand 51AW	35	158.6	96.3	0.4	9.7	48.5	73.7	19.3	1.23	14.3
<i>Whisnand 52AW</i>	36	166.6	94.7	0.7	11.8	45.5	72.5	19.0	1.30	14.3
Whisnand 92AW	37	161.6	98.1	0.4	10.6	44.0	73.4	22.9	0.92	13.4
<i>Wilson E1789</i>	38	155.6	96.0	0.1	11.7	47.3	75.3	20.1	1.18	17.3
Zimmerman Z62W	39	171.3	97.1	0.0	7.6	46.2	74.7	18.8	0.95	14.3
Zimmerman Z64W	40	168.8	98.6	0.5	8.1	49.2	74.9	20.5	0.92	23.2
<i>Zimmerman Z71W</i>	41	163.5	98.7	1.4	9.8	48.0	75.0	22.5	0.85	12.9
<i>Zimmerman Z72W</i>	42	156.6	98.6	1.4	9.0	46.8	75.4	19.3	1.18	18.0
<i>Zimmerman Z73W</i>	43	161.8	97.5	1.1	10.4	48.3	76.2	18.6	1.07	9.9
White check (K55×CI66)FR802W	44	126.1	82.2	2.5	14.1	51.3	77.5	22.9	0.96	19.2
Yellow check B73×Mo17	45	153.2	93.7	0.4	8.6	45.9	72.1	18.0	1.10	16.4

Table 16. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)	b ₁ (bu/a/I)	Std. devn. (bu/a)
Yellow check Pioneer Brand 3245	46	182.4	97.3	0.2	8.4	41.7	74.0	18.4	0.86	20.8
Yellow check Pioneer Brand 3394	47	168.0	97.7	0.4	7.8	43.2	70.6	17.2	0.82	18.4
Mean		159.6	96.1	0.6	10.0	45.9	73.8	20.1	1.00	16.7
LSD 0.05		13.7	4.2	ns	3.6	2.2	1.1	0.7	0.09	
CV%		10.6	5.3		42.1	7.0	1.6	4.3		
Location means:										
Paris, IL		150.7	97.9	.	.	39.6	.	29.6		
Winchester, IL		174.3	97.7	0.0	0.3	53.9	.	23.5		
West Lafayette, IN		82.1	92.9	0.0	73.7	47.1	.	22.5		
Scandia, KS [†]		182.2	92.9	2.2	0.0	46.9	77.7	16.7		
Topeka, KS [†]		199.0	95.3	0.4	0.4	48.9	79.9	23.0		
Henderson, KY		156.4	98.8	0.0	0.4	.	.	18.9		
Lexington, KY		170.6	100.0	0.7	5.9	42.0	65.3	17.3		
Columbia, MO		159.7	93.0	0.7	2.6	42.3	66.4	22.4		
Grand Pass, MO		121.0	93.7	1.3	6.5	57.4	.	15.9		
Knoxville, TN		145.2	94.7	0.0	0.4	45.5	69.0	20.9		
Union City, TN		179.0	100.0	.	.	.	.	21.4		
College Station, TX [†]		163.6	92.4	.	.	42.4	86.3	13.6		
Springlake, TX [†]		191.4	99.8	.	.	38.7	72.4	15.2		

[†] Irrigated location.

Table 17. Yield (bu/a) data from 13 locations of the 1996 Late White Food Corn Performance Test. New entries for 1996 are shown in italics.

Entry	No.	Paris, IL	Win- chester, IN	W. La- fayette, IN	Scandia, KS [†]	Topeka, KS [†]	Hender- son, KY	Lexing- ton, KY
<i>Asgrow XP9465W</i>	1	171.2	191.4	83.4	204.3	206.4	150.7	180.8
DEKALB Genetics DK703W	2	139.9	182.9	84.7	180.0	190.7	142.8	166.8
<i>DEKALB Genetics DK631W</i>	3	138.3	146.6	72.4	221.1	159.6	122.7	157.8
<i>DEKALB Genetics EXP564W</i>	4	137.0	179.7	93.3	174.9	219.3	170.7	164.1
<i>DEKALB Genetics EXP664W</i>	5	141.8	172.5	68.5	174.3	196.5	161.1	157.1
<i>Genetic Resources GRI95203</i>	6	161.5	173.3	86.5	164.3	182.8	149.1	161.6
<i>Genetic Resources GRI96515</i>	7	134.0	192.1	83.1	144.0	202.2	162.4	174.5
ICI Seeds 8317W	8	145.6	169.2	73.7	187.3	197.3	165.7	166.3
ICI Seeds 8320W	9	147.7	163.9	81.0	165.7	189.0	150.2	165.5
IFSI 90-1	10	179.5	167.0	71.0	179.7	202.6	175.8	173.0
IFSI 90-4	11	175.7	169.4	98.2	166.1	191.7	154.8	171.6
IFSI 94-3	12	182.9	179.4	81.9	168.8	223.0	160.4	180.7
IFSI 95-1	13	167.1	187.2	87.1	186.6	206.1	159.9	161.1
Golden Harvest H-2633W	14	143.9	178.1	80.1	191.3	177.3	124.4	172.6
LG Seeds NB749W	15	152.8	180.4	73.6	190.8	199.2	167.8	172.6
<i>NC+ 6555W</i>	16	140.8	173.5	73.5	174.5	183.8	146.7	177.3
<i>NC+ 6989W</i>	17	130.8	169.8	88.6	193.8	213.9	166.5	167.6
Northrup King N7580W	18	123.3	160.0	67.4	141.8	197.0	144.9	154.7
<i>Northrup King X6545W</i>	19	153.2	176.6	63.5	138.0	200.4	164.2	175.2
<i>Northrup King X6955W</i>	20	170.3	179.3	70.9	185.9	186.3	164.9	174.4
Pioneer Brand 3203W	21	129.5	209.0	86.0	212.8	208.4	160.8	203.5
Pioneer Brand 3281W	22	134.2	166.6	88.5	206.6	196.3	135.1	195.6
Pioneer Brand 3287W	23	155.4	152.5	102.1	212.7	181.2	149.4	165.0
<i>Pioneer Brand X1155FW</i>	24	173.1	180.0	109.4	225.9	207.9	165.2	180.0
<i>SeedTec ST-7585W</i>	25	160.2	175.1	91.4	147.3	222.1	168.7	168.2
<i>SeedTec ST-7590W</i>	26	142.6	150.8	66.7	142.3	206.6	146.8	158.4
Sturdy Grow SG765W	27	167.2	179.7	85.4	193.2	210.9	168.7	179.6
Sturdy Grow SG777W	28	132.7	166.6	75.4	186.4	205.7	155.5	163.4
Sturdy Grow SG797W	29	114.1	147.9	71.1	170.1	190.2	154.9	162.2
<i>Trisler T-4215W</i>	30	175.2	173.3	87.7	168.4	191.5	166.3	183.0
Vineyard V442W	31	163.3	181.7	68.2	191.2	176.3	140.8	146.5
Vineyard V448W	32	164.3	178.6	90.3	205.4	189.8	147.4	174.5
Vineyard V449W	33	165.0	182.9	92.7	207.2	194.0	161.1	185.0
Vineyard V453W	34	160.4	175.8	74.2	210.8	196.2	151.2	173.7
Whisnand 51AW	35	136.8	182.8	82.5	176.2	201.2	152.9	180.3
<i>Whisnand 52AW</i>	36	169.3	188.2	81.3	195.7	209.5	151.8	166.7
Whisnand 92AW	37	153.1	160.0	74.9	187.3	185.9	160.4	167.8
<i>Wilson E1789</i>	38	130.4	191.8	79.8	184.2	206.3	142.7	160.4
Zimmerman Z62W	39	157.5	188.1	86.0	169.4	220.8	176.3	191.1
Zimmerman Z64W	40	149.4	181.0	90.3	153.5	230.3	183.4	173.9

Table 17. Continued.

Entry	No.	Paris, IL	Win- chester, IN	W. La- fayette, IN	Scandia, KS [†]	Topeka, KS [†]	Hender- son, KY	Lexing- ton, KY
<i>Zimmerman Z71W</i>	41	146.7	163.0	93.3	176.5	212.6	163.5	160.9
<i>Zimmerman Z72W</i>	42	143.8	181.4	67.1	141.4	195.4	153.2	180.1
<i>Zimmerman Z73W</i>	43	162.3	177.0	80.2	184.5	212.5	162.8	148.9
White check (K55 × CI66)FR802W	44	95.1	104.4	49.4	127.6	158.8	131.8	128.4
Yellow check B73 × Mo17	45	144.3	169.2	90.6	193.5	206.5	160.2	173.0
Yellow check Pioneer Brand 3245	46	158.5	189.2	110.7	239.4	219.1	163.9	192.1
Yellow check Pioneer Brand 3394	47	163.2	203.0	100.3	219.6	193.3	170.0	181.8
Mean		150.7	174.3	82.1	182.2	199.0	156.4	170.6
LSD 0.05		25.6	22.6	15.2	15.2	19.9	23.0	24.3
CV%		10.4	7.9	11.3	5.1	6.1	9.0	8.7

[†] Irrigated location.

Table 17. Continued.

Entry	No.	Colum- bia, MO	Grand Pass, MO	Knox- ville, TN	Union City, TN	College Station, TX [†]	Spring- lake, TX [†]	Com- bined
<i>Asgrow XP9465W</i>	1	152.7	169.9	130.9	160.8	165.3	207.1	167.3
<i>DEKALB Genetics DK703W</i>	2	159.8	113.6	149.8	174.4	96.9	179.5	150.9
<i>DEKALB Genetics DK631W</i>	3	133.4	129.4	147.8	147.4	83.8	159.6	140.0
<i>DEKALB Genetics EXP564W</i>	4	186.1	109.1	181.7	197.0	170.7	189.6	167.2
<i>DEKALB Genetics EXP664W</i>	5	174.7	99.0	130.0	171.5	166.7	196.3	154.6
<i>Genetic Resources GRI95203</i>	6	165.6	121.6	157.9	174.2	172.3	201.3	159.4
<i>Genetic Resources GRI96515</i>	7	184.0	107.5	144.1	175.9	163.8	203.0	159.3
ICI Seeds 8317W	8	158.7	115.7	135.4	177.9	187.4	196.6	159.7
ICI Seeds 8320W	9	134.0	91.1	120.8	182.8	171.6	201.5	151.1
IFSI 90-1	10	171.6	135.0	128.6	198.6	213.9	202.2	169.1
IFSI 90-4	11	162.5	119.9	173.3	164.6	155.0	160.9	158.8
IFSI 94-3	12	176.6	102.4	147.6	192.2	201.2	153.5	165.4
IFSI 95-1	13	180.8	123.2	105.6	180.4	172.2	193.8	162.4
Golden Harvest H-2633W	14	169.0	124.7	119.2	174.0	136.3	187.9	152.2
LG Seeds NB749W	15	159.3	108.1	124.4	178.1	177.0	235.2	163.0
<i>NC+ 6555W</i>	16	149.7	109.2	122.0	164.9	169.1	200.6	152.7
<i>NC+ 6989W</i>	17	162.1	160.5	144.7	177.5	141.9	162.8	160.0
<i>Northrup King N7580W</i>	18	161.9	118.2	133.2	172.4	141.0	201.3	147.5
<i>Northrup King X6545W</i>	19	151.0	90.3	145.5	178.1	171.9	170.5	152.2
<i>Northrup King X6955W</i>	20	167.8	75.4	166.0	178.9	142.3	193.1	158.1
Pioneer Brand 3203W	21	178.1	108.6	186.5	196.8	207.5	209.5	176.7
Pioneer Brand 3281W	22	147.6	101.2	151.9	177.5	168.5	161.3	156.2
Pioneer Brand 3287W	23	156.0	163.3	133.5	158.4	168.5	170.2	159.1
<i>Pioneer Brand X1155FW</i>	24	133.8	193.3	170.8	182.7	184.6	187.6	176.5
<i>SeedTec ST-7585W</i>	25	165.1	165.7	132.9	201.0	167.9	203.3	166.8
<i>SeedTec ST-7590W</i>	26	143.9	120.1	142.7	158.7	181.1	213.3	151.8
Sturdy Grow SG765W	27	162.5	105.8	168.9	177.2	166.5	174.7	164.6
Sturdy Grow SG777W	28	146.6	71.7	138.0	191.0	164.0	181.2	152.2
Sturdy Grow SG797W	29	133.7	120.4	135.3	163.5	171.9	251.9	152.9
<i>Trisler T-4215W</i>	30	195.3	96.4	176.2	209.3	123.3	197.6	164.9
Vineyard V442W	31	131.7	109.1	124.8	159.3	170.8	195.3	150.7
Vineyard V448W	32	157.7	154.9	164.0	182.2	137.5	181.2	163.7
Vineyard V449W	33	160.3	146.9	135.3	175.8	101.3	193.3	161.6
Vineyard V453W	34	158.9	122.6	182.1	180.5	154.1	138.3	159.9
Whisnand 51AW	35	157.4	84.3	147.7	182.5	153.8	223.5	158.6
<i>Whisnand 52AW</i>	36	161.9	86.4	157.8	195.6	174.8	226.9	166.6
Whisnand 92AW	37	155.2	155.9	137.2	188.0	177.0	198.1	161.6
<i>Wilson E1789</i>	38	131.7	102.2	159.1	169.4	142.4	222.0	155.6
Zimmerman Z62W	39	169.1	143.5	172.8	207.0	166.8	178.2	171.3
Zimmerman Z64W	40	175.3	168.8	113.7	201.8	183.6	189.2	168.8

Table 17. Continued.

Entry	No.	Colum- bia, MO	Grand Pass, MO	Knox- ville, TN	Union City, TN	College Station, TX [†]	Spring- lake, TX [†]	Com- bined
<i>Zimmerman Z71W</i>	41	171.1	154.2	134.4	173.8	180.0	195.6	163.5
<i>Zimmerman Z72W</i>	42	159.3	95.7	134.5	185.4	196.1	202.5	156.6
<i>Zimmerman Z73W</i>	43	173.3	122.5	137.6	180.1	161.0	200.9	161.8
White check (K55 × CI66)FR802W	44	132.1	89.6	130.6	156.5	150.3	184.1	126.1
Yellow check B73 × Mo17	45	162.1	81.3	111.4	160.9	161.3	177.5	153.2
Yellow check Pioneer Brand 3245	46	171.8	172.0	155.6	207.6	214.1	177.4	182.4
Yellow check Pioneer Brand 3394	47	154.2	125.4	178.6	169.1	159.9	165.6	168.0
Mean		159.7	121.0	145.2	179.0	163.6	191.4	159.6
LSD 0.05		33.4	42.3	34.2	17.6	36.0	43.8	13.7
CV%		10.5	21.4	14.4	6.0	13.5	14.0	10.6

Table 18. European corn borer whorl-leaf feeding and stalk tunneling data from Columbia and Novelty, MO, for the 1996 Late White Food Corn Performance Test. New entries for 1996 are shown in italics.

Entry	No.	Columbia			Novelty			Combined		
		Leaf feeding (1-9)	No. of tunnels (no)	Tunnel length (in)	Leaf feeding (1-9)	No. of tunnels (no)	Tunnel length (in)	Leaf feeding (1-9)	No. of tunnels (no)	Tunnel length (in)
<i>Asgrow XP9465W</i>	1	2.3	0.2	0.2	1.7	0.7	0.7	2.0	0.5	0.5
DEKALB Genetics DK703W	2	4.0	0.6	0.6	3.0	1.0	1.1	3.5	0.8	0.8
<i>DEKALB Genetics DK631W</i>	3	2.3	0.6	0.6	1.7	0.8	0.9	2.0	0.7	0.8
<i>DEKALB Genetics EXP564W</i>	4	1.3	0.7	1.0	1.3	1.5	1.7	1.3	1.1	1.3
<i>DEKALB Genetics EXP664W</i>	5	2.0	1.1	1.2	1.7	2.6	2.8	1.8	1.9	2.0
<i>Genetic Resources GRI95203</i>	6	3.3	1.3	1.9	1.7	0.5	0.5	2.5	0.9	1.2
<i>Genetic Resources GRI96515</i>	7	3.0	0.9	1.1	3.3	1.8	1.9	3.2	1.3	1.5
ICI Seeds 8317W	8	2.7	0.7	0.7	2.3	1.7	2.1	2.5	1.2	1.4
ICI Seeds 8320W	9	3.0	1.0	1.1	2.3	1.2	1.3	2.7	1.1	1.2
IFSI 90-1	10	2.7	0.8	0.9	2.0	1.2	1.3	2.3	1.0	1.1
IFSI 90-4	11	1.7	0.4	0.4	1.3	1.0	1.0	1.5	0.7	0.7
IFSI 94-3	12	3.0	0.7	0.8	1.3	0.9	0.9	2.2	0.8	0.9
IFSI 95-1	13	4.0	1.1	1.1	2.7	0.6	0.6	3.3	0.8	0.8
Golden Harvest H-2633W	14	2.0	0.7	0.8	2.3	0.9	0.9	2.2	0.8	0.9
LG Seeds NB749W	15	2.7	1.2	1.2	2.0	1.2	1.3	2.3	1.2	1.2
<i>NC+ 6555W</i>	16	3.3	0.5	0.5	2.3	1.7	1.8	2.8	1.1	1.2
<i>NC+ 6989W</i>	17	3.3	0.5	0.6	3.0	0.5	0.6	3.2	0.5	0.6
Northrup King N7580W	18	3.0	0.7	0.8	2.0	1.4	1.5	2.5	1.1	1.2
<i>Northrup King X6545W</i>	19	3.0	1.1	1.3	3.0	1.3	1.3	3.0	1.2	1.3
<i>Northrup King X6955W</i>	20	2.7	1.2	1.4	2.3	0.9	1.0	2.5	1.1	1.2
Pioneer Brand 3203W	21	2.3	0.8	0.9	2.0	0.8	0.8	2.2	0.8	0.8
Pioneer Brand 3281W	22	2.3	0.6	0.7	2.0	0.5	0.5	2.2	0.6	0.6
Pioneer Brand 3287W	23	2.7	0.5	0.7	2.3	0.2	0.3	2.5	0.4	0.5
<i>Pioneer Brand X1155FW</i>	24	3.0	0.6	0.6	2.7	0.6	0.7	2.8	0.6	0.7
<i>SeedTec ST-7585W</i>	25	2.7	0.6	0.7	2.7	0.5	0.5	2.7	0.5	0.6
<i>SeedTec ST-7590W</i>	26	2.7	0.6	0.9	2.3	1.0	1.0	2.5	0.8	0.9
Sturdy Grow SG765W	27	2.7	0.5	0.7	2.7	1.7	1.8	2.7	1.1	1.2
Sturdy Grow SG777W	28	3.7	0.7	0.9	2.7	0.3	0.6	3.2	0.5	0.7
Sturdy Grow SG797W	29	3.3	0.6	0.8	2.0	1.3	1.4	2.7	0.9	1.1
<i>Trisler T-4215W</i>	30	2.3	0.9	1.3	2.0	0.9	0.9	2.2	0.9	1.1
Vineyard V442W	31	3.7	1.5	1.6	2.0	0.6	0.8	2.8	1.0	1.2
Vineyard V448W	32	3.0	1.0	1.0	2.0	1.1	1.1	2.5	1.0	1.1
Vineyard V449W	33	2.7	0.8	0.8	1.7	0.7	0.7	2.2	0.8	0.8
Vineyard V453W	34	3.3	1.3	1.3	2.3	1.3	1.3	2.8	1.3	1.3
Whisnand 51AW	35	2.7	1.1	1.2	2.3	1.3	1.3	2.5	1.2	1.3
<i>Whisnand 52AW</i>	36	4.0	0.7	0.7	3.0	1.0	1.1	3.5	0.9	0.9
<i>Whisnand 92AW</i>	37	3.0	0.4	0.6	1.7	0.4	0.4	2.3	0.4	0.5
<i>Wilson E1789</i>	38	3.7	0.6	0.7	2.3	1.1	1.1	3.0	0.8	0.9
Zimmerman Z62W	39	2.0	0.6	0.7	1.3	1.0	1.1	1.7	0.8	0.9
Zimmerman Z64W	40	2.3	0.3	0.3	2.3	1.0	1.1	2.3	0.7	0.7

Table 18. Continued.

Entry	No.	Columbia			Novelty			Combined		
		Leaf feeding (1-9)	No. of tunnels (no)	Tunnel length (in)	Leaf feeding (1-9)	No. of tunnels (no)	Tunnel length (in)	Leaf feeding (1-9)	No. of tunnels (no)	Tunnel length (in)
<i>Zimmerman Z71W</i>	41	2.0	0.7	0.9	2.0	1.2	1.3	2.0	1.0	1.1
<i>Zimmerman Z72W</i>	42	2.3	0.3	0.6	2.0	0.6	0.6	2.2	0.5	0.6
<i>Zimmerman Z73W</i>	43	2.7	0.9	1.0	2.0	0.9	1.1	2.3	0.9	1.1
White check (K55 × CI66)FR802W	44	3.3	0.5	0.6	1.0	0.8	1.1	2.2	0.7	0.8
Yellow check B73 × Mo17	45	3.3	1.1	0.8	2.0	1.7	1.7	2.7	1.4	1.3
Yellow check Pioneer Brand 3245	46	3.7	0.9	0.9	2.7	1.1	1.1	3.2	1.0	1.0
Yellow check Pioneer Brand 3394	47	3.3	0.8	0.9	2.7	1.0	1.0	3.0	0.9	1.0
Susceptible check (Ki3)		4.5	1.3	1.3	.	.	.	4.5	1.3	1.3
Susceptible check (Wf9 × W182E)		4.0	1.1	0.9	3.3	1.3	1.3	3.7	1.2	1.1
Resistant check (Pioneer Brand 3184)		4.0	0.4	0.4	2.0	1.0	1.3	3.0	0.7	0.9
Mean		2.9	0.8	0.9	2.2	1.0	1.1	2.5	0.9	1.0
LSD 0.05		1.3	ns	ns	1.1	0.9	1.0	0.8	ns	ns
CV%		27.3			31.6	51.0	55.2	29.2		

Table 19. Yield and agronomic data from common entries in the 1995-1996 Late White Food Corn Performance Tests.

Entry	Years (no)	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
DEKALB Genetics DK703W	2	140.9	95.2	1.3	6.1	45.1	75.1	19.6
Golden Harvest H-2633W	2	147.7	96.7	0.2	6.4	40.2	73.9	21.5
ICI Seeds 8317W	2	152.4	98.4	0.0	5.7	46.1	75.6	19.8
ICI Seeds 8320W	2	146.2	96.3	0.4	7.9	46.9	75.3	19.0
IFSI 90-1	2	154.7	97.9	0.3	5.8	48.3	74.9	18.7
IFSI 90-4	2	153.2	96.6	0.2	5.6	42.2	73.8	21.3
IFSI 94-3	2	158.2	97.1	0.5	6.5	43.0	75.1	22.1
IFSI 95-1	2	153.0	97.7	0.2	4.8	44.3	75.6	21.7
LG Seeds NB749W	2	153.6	98.7	0.1	6.5	45.8	75.7	19.5
Northrup King N7580W	2	146.8	97.0	0.5	6.0	45.3	75.8	19.9
Pioneer Brand 3203W	2	162.6	98.8	0.3	7.2	43.9	76.4	19.4
Pioneer Brand 3281W	2	148.2	97.4	0.2	5.4	44.1	76.0	18.9
Pioneer Brand 3287W	2	142.4	96.5	1.0	3.9	41.6	72.7	18.7
Sturdy Grow SG765W	2	152.9	97.5	1.2	6.3	46.0	74.9	18.2
Sturdy Grow SG777W	2	149.3	97.7	0.5	5.7	47.0	75.2	18.7
Sturdy Grow SG797W	2	151.1	98.0	0.3	5.3	47.0	76.2	19.8
Vineyard V442W	2	139.1	95.2	0.9	7.2	41.7	74.4	20.3
Vineyard V448W	2	151.3	97.0	0.6	5.0	44.7	74.6	19.5
Vineyard V449W	2	147.5	97.0	0.8	5.6	42.5	75.2	19.6
Vineyard V453W	2	145.2	97.5	0.2	4.9	42.5	74.8	19.0
Whisnand 51AW	2	148.3	97.6	0.4	5.9	45.6	75.1	19.0
Whisnand 92AW	2	149.2	98.6	0.3	6.4	43.9	75.5	22.7
Zimmerman Z62W	2	157.5	98.2	0.3	4.7	45.2	76.4	18.1
Zimmerman Z64W	2	159.2	97.5	1.4	5.0	48.0	76.9	20.3
White check (K55 × CI66)FR802W	2	104.5	82.8	2.6	9.1	50.0	79.4	22.3
Yellow check B73 × Mo17	2	144.6	93.6	0.9	4.8	45.0	74.0	17.3
Yellow check Pioneer Brand 3245	2	171.2	97.6	0.3	4.9	40.9	75.7	17.7
Yellow check Pioneer Brand 3394	2	158.3	97.4	0.4	4.4	42.1	72.9	16.7
Mean		149.6	96.7	0.6	5.8	44.6	75.2	19.6

Table 20. Yield and agronomic data from common entries in the 1994-1996 Late White Food Corn Performance Tests.

Entry	Years (no)	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
DEKALB Genetics DK703W	3	153.4	92.8	0.9	4.5	45.5	74.6	19.8
Golden Harvest H-2633W	3	156.5	95.6	0.1	4.5	40.0	73.4	21.5
ICI Seeds 8320W	3	158.4	95.4	0.4	5.6	47.5	74.7	19.3
IFSI 90-4	3	161.7	96.5	0.1	3.9	42.6	73.6	21.6
IFSI 94-3	3	167.9	95.7	0.4	4.7	43.3	74.8	22.8
Northrup King N7580W	3	159.0	95.8	0.4	4.3	46.3	75.2	20.3
Pioneer Brand 3203W	3	174.8	95.9	0.2	5.2	44.4	75.7	19.6
Pioneer Brand 3281W	3	157.6	96.4	0.2	3.7	44.0	75.6	19.2
Pioneer Brand 3287W	3	149.6	95.3	0.9	2.8	41.5	71.9	19.0
Sturdy Grow SG765W	3	163.1	96.3	0.9	4.8	45.9	74.3	18.5
Sturdy Grow SG777W	3	156.4	94.3	0.4	4.2	47.1	74.7	19.1
Sturdy Grow SG797W	3	163.1	96.4	0.3	3.8	47.5	75.4	20.1
Vineyard V448W	3	159.0	95.6	0.6	3.9	44.9	73.8	19.7
Vineyard V449W	3	152.5	95.0	0.6	4.1	42.4	74.7	20.0
Vineyard V453W	3	154.2	95.8	0.1	3.6	42.7	74.4	19.4
Whisnand 51AW	3	161.1	95.8	0.3	4.3	46.5	74.5	19.3
Whisnand 92AW	3	155.7	97.0	0.2	4.4	44.2	75.2	22.8
Zimmerman Z62W	3	167.2	96.7	0.3	3.5	45.9	76.0	18.7
Zimmerman Z64W	3	167.9	95.9	1.1	4.2	48.1	76.6	21.1
White check (K55 × CI66)FR802W	3	122.5	86.7	2.6	7.2	51.0	78.9	22.8
Yellow check B73 × Mo17	3	156.5	92.8	0.6	3.4	45.4	73.8	18.0
Yellow check Pioneer Brand 3245	3	177.5	97.0	0.2	3.8	40.5	75.1	18.0
Mean		158.9	95.2	0.5	4.3	44.9	74.9	20.0

Table 21. Yield and agronomic data from common entries in the 1993-1996 Late White Food Corn Performance Tests.

Entry	Years (no)	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
DEKALB Genetics DK703W	4	151.2	93.3	1.5	5.0	46.1	75.3	19.7
ICI Seeds 8320W	4	156.1	95.2	1.5	5.4	48.2	75.4	19.1
IFSI 90-4	4	158.9	96.7	0.3	4.8	43.3	74.6	21.5
Northrup King N7580W	4	156.4	95.5	0.9	4.6	46.8	75.8	20.0
Pioneer Brand 3281W	4	154.9	96.2	0.3	3.8	44.4	76.2	19.0
Pioneer Brand 3287W	4	146.4	94.8	2.0	2.7	42.0	72.7	18.9
Sturdy Grow SG765W	4	157.5	95.6	1.1	5.4	46.2	74.8	18.6
Sturdy Grow SG777W	4	155.3	94.2	1.5	4.3	47.8	75.3	19.1
Sturdy Grow SG797W	4	157.9	96.2	1.1	4.3	47.7	76.1	20.0
Vineyard V449W	4	147.8	95.2	1.2	4.7	42.6	75.4	19.8
Vineyard V453W	4	153.5	95.7	0.6	4.1	43.2	74.9	19.2
Whisnand 51AW	4	157.7	95.6	0.8	4.8	47.2	75.1	19.1
Whisnand 92AW	4	151.8	96.4	0.6	5.0	44.5	75.9	22.6
Zimmerman Z64W	4	164.6	96.1	1.2	3.9	48.4	77.3	20.7
White check (K55 × CI66)FR802W	4	119.8	88.6	2.8	7.9	51.5	79.6	22.3
Yellow check B73 × Mo17	4	151.7	93.3	1.2	3.8	45.5	74.7	18.1
Yellow check Pioneer Brand 3245	4	172.9	97.1	0.4	4.0	40.8	75.9	18.1
Mean		153.8	95.0	1.1	4.6	45.6	75.6	19.7

Table 22. Yield and agronomic data from common entries in the 1992-1996 Late White Food Corn Performance Tests.

Entry	Years (no)	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
DEKALB Genetics DK703W	5	156.6	93.9	1.8	4.4	45.2	75.3	19.8
ICI Seeds 8320W	5	161.9	94.8	1.7	4.7	47.7	75.4	19.2
Northrup King N7580W	5	161.0	95.6	0.9	4.2	46.5	75.9	20.0
Pioneer Brand 3281W	5	159.6	96.3	0.5	3.4	43.7	76.2	19.2
Pioneer Brand 3287W	5	149.2	95.2	1.9	2.4	41.1	72.6	19.0
Vineyard V449W	5	153.4	95.0	1.1	4.2	42.1	75.3	19.8
Whisnand 51AW	5	162.2	95.1	1.1	4.5	46.8	75.2	19.2
Whisnand 92AW	5	156.5	96.5	0.8	4.3	44.0	75.9	22.5
White check (K55 × CI66)FR802W	5	128.9	89.5	2.5	7.6	50.4	79.3	22.2
Yellow check B73 × Mo17	5	154.7	93.8	1.8	3.6	44.6	74.6	18.3
Yellow check Pioneer Brand 3245	5	176.0	96.6	0.4	3.4	39.9	75.7	18.2
Mean		156.3	94.8	1.3	4.2	44.7	75.6	19.8

Table 23. Combined grain quality data from the 1996 White Food Corn Performance Test grown at West Lafayette, IN; Lexington, KY; Columbia, MO; Knoxville, TN; and Springlake, TX.

Entry	No.	Test weight (lb/bu)	100-kernel weight (g)	Kernel size (cc)	Thins [†] (%)	Kernel density (g/cc)	Horny endosp. (%)
<i>Asgrow XP9465W</i>	1	63.0	31.6	0.24	34.4	1.33	92
<i>DEKALB Genetics DK703W</i>	2	63.0	36.5	0.27	16.8	1.33	88
<i>DEKALB Genetics DK631W</i>	3	62.4	33.1	0.25	13.2	1.33	89
<i>DEKALB Genetics EXP564W</i>	4	61.6	35.8	0.27	6.6	1.32	88
<i>DEKALB Genetics EXP664W</i>	5	63.2	31.1	0.24	41.2	1.32	87
<i>Genetic Resources GRI95203</i>	6	61.5	37.0	0.28	7.0	1.32	87
<i>Genetic Resources GRI96515</i>	7	60.1	41.5	0.31	2.3	1.32	82
ICI Seeds 8317W	8	62.7	31.7	0.24	36.0	1.32	82
ICI Seeds 8320W	9	63.7	34.5	0.26	27.2	1.34	87
IFSI 90-1	10	63.4	33.5	0.25	26.1	1.34	88
IFSI 90-4	11	61.1	34.4	0.26	15.6	1.31	86
IFSI 94-3	12	61.5	32.9	0.25	22.4	1.31	89
IFSI 95-1	13	64.7	31.8	0.23	29.4	1.36	94
Golden Harvest H-2633W	14	62.8	34.0	0.26	23.0	1.32	86
LG Seeds NB749W	15	63.1	32.5	0.24	34.8	1.33	84
<i>NC+ 6555W</i>	16	63.3	33.1	0.25	31.6	1.34	83
<i>NC+ 6989W</i>	17	63.0	30.9	0.23	37.5	1.34	88
Northrup King N7580W	18	63.2	32.8	0.24	35.5	1.33	82
<i>Northrup King X6545W</i>	19	62.1	29.7	0.22	33.6	1.32	85
<i>Northrup King X6955W</i>	20	62.2	28.8	0.22	43.5	1.32	83
Pioneer Brand 3203W	21	61.2	35.2	0.27	14.1	1.31	86
Pioneer Brand 3281W	22	63.4	34.4	0.26	12.0	1.34	88
Pioneer Brand 3287W	23	63.2	30.9	0.23	35.1	1.34	88
<i>Pioneer Brand X1155FW</i>	24	62.7	31.7	0.23	38.1	1.34	86
<i>SeedTec ST-7585W</i>	25	61.2	31.8	0.24	12.6	1.33	89
<i>SeedTec ST-7590W</i>	26	60.7	32.2	0.24	20.7	1.34	84
Sturdy Grow SG765W	27	61.2	27.3	0.21	52.4	1.31	84
Sturdy Grow SG777W	28	63.1	32.4	0.24	26.3	1.34	86
Sturdy Grow SG797W	29	62.7	32.1	0.24	26.7	1.33	86
<i>Trisler T-4215W</i>	30	61.6	32.7	0.25	26.5	1.31	88
Vineyard V442W	31	61.8	29.2	0.22	17.7	1.34	94
Vineyard V448W	32	62.6	30.3	0.23	26.4	1.34	90
Vineyard V449W	33	63.4	30.4	0.23	24.6	1.34	91
Vineyard V453W	34	62.1	31.6	0.24	27.4	1.32	84
Whisnand 51AW	35	63.3	32.7	0.24	23.0	1.34	86
<i>Whisnand 52AW</i>	36	60.8	32.1	0.24	26.8	1.31	82
Whisnand 92AW	37	64.0	33.8	0.25	26.5	1.33	89
<i>Wilson E1789</i>	38	61.0	32.9	0.25	11.0	1.32	85
Zimmerman Z62W	39	61.1	35.2	0.27	6.3	1.32	88
Zimmerman Z64W	40	60.9	33.7	0.25	10.1	1.33	88
<i>Zimmerman Z71W</i>	41	62.9	31.8	0.24	38.1	1.35	91
<i>Zimmerman Z72W</i>	42	62.9	31.4	0.23	20.5	1.35	95
<i>Zimmerman Z73W</i>	43	62.3	34.7	0.26	9.5	1.34	93
White check (K55×CI66)FR802W	44	61.4	35.7	0.27	4.0	1.34	90
Yellow check B73×Mo17	45	56.9	31.0	0.24	21.1	1.28	74

Table 23. Continued.

Entry	No.	Test weight (lb/bu)	100-kernel weight (g)	Kernel size (cc)	Thins [†] (%)	Kernel density (g/cc)	Horny endosp. (%)
Yellow check Pioneer Brand 3245	46	62.8	36.7	0.28	16.3	1.34	91
Yellow check Pioneer Brand 3394	47	60.4	34.1	0.26	22.2	1.31	83
Mean		62.2	32.9	0.25	23.7	1.33	87
LSD 0.05		1.1	2.4	0.02	10.1	0.02	4
CV%		1.4	5.7	5.5	33.7	0.9	3.5

[†] Percent of a 250-kernel sample passing through a 20/64" round-hole sieve.

Table 24. Yield and agronomic data from the 1996 Early White Food Corn Performance Test at Galesburg, IL. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
AgriGold A6680W	1	110.3	100.0	.	.	41.0	.	23.5
<i>AgriGold XA4323W</i>	2	89.9	46.7	.	.	39.0	.	21.5
Asgrow XP7555W	3	116.6	100.0	.	.	40.0	.	19.6
<i>Beck Ex2251</i>	4	116.0	94.4	.	.	48.3	.	21.3
Crow's W54	5	113.8	70.6	.	.	44.7	.	22.4
Crow's W55	6	107.0	96.7	.	.	43.3	.	22.4
Crow's EX551	7	116.9	93.9	.	.	39.0	.	21.3
<i>Crow's EX552</i>	8	106.0	88.9	.	.	48.3	.	21.2
DEKALB Genetics DK703W	9	94.0	96.1	.	.	37.3	.	22.9
<i>DEKALB Genetics DK631W</i>	10	120.6	97.8	.	.	27.7	.	19.5
<i>DEKALB Genetics EXP564W</i>	11	114.9	73.9	.	.	40.0	.	20.6
<i>Golden Harvest EX-106W</i>	12	115.1	100.0	.	.	46.3	.	21.9
Hoegemeyer 1125W	13	118.0	99.4	.	.	42.0	.	22.5
Hoegemeyer 1131W	14	113.5	91.1	.	.	36.0	.	22.5
Hoegemeyer 1142W	15	122.6	86.7	.	.	43.0	.	25.5
ICI Seeds 8320W	16	112.0	93.3	.	.	45.0	.	21.8
<i>ICI Seeds N3527W</i>	17	105.6	98.9	.	.	29.7	.	19.1
IFSI 90-1	18	119.5	92.8	.	.	46.0	.	21.0
IFSI 93-4	19	124.2	98.9	.	.	39.7	.	20.3
IFSI 95-2	20	122.3	94.4	.	.	48.7	.	22.9
LG Seeds NB571W	21	97.9	78.3	.	.	30.3	.	19.7
LG Seeds NB710W	22	99.8	79.4	.	.	40.3	.	19.6
LG Seeds NB739W	23	113.8	92.2	.	.	33.3	.	23.4
LG Seeds NB742W	24	113.8	86.7	.	.	38.3	.	22.2
LG Seeds NB749W	25	120.5	100.0	.	.	44.0	.	23.0
Mycogen 7860W	26	116.4	98.9	.	.	47.0	.	21.6
<i>Mycogen X6688W</i>	27	137.0	97.8	.	.	46.0	.	20.7
<i>NC+ 5633W</i>	28	104.5	92.8	.	.	40.7	.	21.2
<i>NC+ 6555W</i>	29	127.8	92.2	.	.	45.0	.	22.9
<i>Northrup King X6545W</i>	30	107.3	97.8	.	.	41.0	.	21.5
<i>Northrup King X6955W</i>	31	114.5	92.8	.	.	43.3	.	20.6
Pioneer Brand 3287W	32	111.1	83.3	.	.	39.3	.	22.0
Pioneer Brand 3392W	33	110.7	100.0	.	.	39.7	.	19.1
Pioneer Brand 3443W	34	95.6	98.3	.	.	37.0	.	19.2
Pioneer Brand 3463W	35	103.0	85.0	.	.	34.0	.	19.0
<i>Pioneer Brand X1155FW</i>	36	125.3	98.3	.	.	40.0	.	20.9
<i>SeedTec ST-7545W</i>	37	119.0	86.7	.	.	41.7	.	21.7
Sturdy Grow SG730W	38	91.9	92.8	.	.	43.0	.	19.8
Sturdy Grow SG765W	39	109.2	99.4	.	.	41.0	.	21.7
Sturdy Grow SG777W	40	119.1	96.1	.	.	52.0	.	22.1
<i>Sturdy Grow SG781W</i>	41	126.1	100.0	.	.	41.0	.	21.8
<i>Sturdy Grow SG797W</i>	42	142.1	94.4	.	.	46.7	.	23.0
<i>Trisler T-4113W</i>	43	128.2	91.7	.	.	40.7	.	21.6
<i>Trisler T-4211W</i>	44	114.2	100.0	.	.	49.7	.	21.9
<i>Vineyard V413W</i>	45	111.4	92.8	.	.	38.3	.	21.1

Table 24. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Vineyard V414W	46	111.8	100.0	.	.	39.3	.	20.3
Vineyard V424W	47	118.9	100.0	.	.	44.3	.	22.7
Vineyard V438W	48	112.9	100.0	.	.	41.3	.	22.0
Vineyard V448W	49	128.6	100.0	.	.	38.0	.	22.7
Vineyard V449W	50	118.8	92.2	.	.	41.3	.	22.3
<i>Whisnand 50W</i>	51	108.8	96.7	.	.	50.0	.	21.5
<i>Whisnand 51AW</i>	52	112.8	99.4	.	.	45.7	.	22.1
<i>Whisnand 52AW</i>	53	101.2	76.1	.	.	41.3	.	20.9
<i>Wilson 1780W</i>	54	141.2	100.0	.	.	36.7	.	24.5
<i>Wilson 1790W</i>	55	133.9	87.8	.	.	38.0	.	23.9
<i>Wilson E1732</i>	56	126.8	93.9	.	.	41.3	.	21.8
<i>Wilson E1789</i>	57	97.5	96.7	.	.	46.0	.	24.1
<i>Zimmerman Z73W</i>	58	109.5	85.6	.	.	44.7	.	22.5
Yellow check B73 × Mo17	59	125.3	90.6	.	.	39.7	.	21.1
Yellow check Pioneer Brand 3394	60	134.1	90.0	.	.	38.0	.	19.3
Mean		115.0	92.5	.	.	41.4	.	21.6
LSD 0.05		25.9	10.7			5.8		1.4
CV%		13.8	7.1			8.6		4.1

Table 25. Yield and agronomic data from the 1996 Early White Food Corn Performance Test at Wanatah, IN. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
AgriGold A6680W	1	125.1	96.8	0.5	23.2	51.5	.	25.4
<i>AgriGold XA4323W</i>	2	131.4	84.7	0.0	18.5	47.1	.	23.1
Asgrow XP7555W	3	123.9	96.8	0.5	25.1	50.1	.	24.2
<i>Beck Ex2251</i>	4	121.1	92.3	0.0	42.0	55.4	.	22.0
Crow's W54	5	125.1	86.5	0.0	16.3	50.1	.	24.1
Crow's W55	6	129.4	93.2	0.0	26.7	53.2	.	24.7
Crow's EX551	7	125.2	94.1	0.0	13.8	46.2	.	23.4
<i>Crow's EX552</i>	8	131.4	92.8	0.0	22.9	54.3	.	23.0
DEKALB Genetics DK703W	9	121.5	88.7	0.0	25.8	50.8	.	24.5
<i>DEKALB Genetics DK631W</i>	10	116.3	95.0	0.0	12.2	33.3	.	22.9
<i>DEKALB Genetics EXP564W</i>	11	127.1	92.3	0.0	10.7	44.7	.	24.4
<i>Golden Harvest EX-106W</i>	12	113.6	93.7	0.0	40.5	52.0	.	22.3
Hoegemeyer 1125W	13	129.8	94.6	0.0	19.0	51.9	.	24.6
Hoegemeyer 1131W	14	121.0	93.7	0.0	20.1	52.9	.	24.6
Hoegemeyer 1142W	15	143.8	92.3	0.0	14.2	50.4	.	26.9
ICI Seeds 8320W	16	123.7	90.5	0.5	34.7	52.0	.	23.5
<i>ICI Seeds N3527W</i>	17	124.6	94.6	0.0	8.6	31.7	.	21.4
IFSI 90-1	18	138.0	92.8	0.0	20.0	52.9	.	23.9
IFSI 93-4	19	129.1	97.3	0.0	21.7	49.8	.	23.5
IFSI 95-2	20	122.0	88.7	0.0	31.2	55.8	.	22.9
LG Seeds NB571W	21	113.8	87.4	0.0	21.6	35.8	.	21.9
LG Seeds NB710W	22	118.3	89.6	0.5	25.9	45.2	.	23.9
LG Seeds NB739W	23	130.1	91.0	0.5	12.3	37.1	.	26.0
LG Seeds NB742W	24	132.1	87.4	0.0	20.0	37.7	.	25.7
LG Seeds NB749W	25	133.3	94.1	0.0	29.1	52.1	.	24.8
Mycogen 7860W	26	127.7	96.4	0.9	21.4	49.8	.	23.3
<i>Mycogen X6688W</i>	27	129.2	95.5	0.0	34.5	54.3	.	22.8
<i>NC+ 5633W</i>	28	128.2	91.4	0.0	23.2	48.6	.	24.4
<i>NC+ 6555W</i>	29	136.0	94.6	1.0	21.5	51.9	.	24.8
<i>Northrup King X6545W</i>	30	120.3	92.3	0.0	34.2	50.4	.	22.8
<i>Northrup King X6955W</i>	31	128.9	88.7	0.5	22.5	51.5	.	24.9
Pioneer Brand 3287W	32	135.1	97.7	0.5	4.2	43.6	.	25.7
Pioneer Brand 3392W	33	128.9	96.8	0.0	15.3	45.2	.	21.8
Pioneer Brand 3443W	34	105.9	94.6	0.0	25.9	41.9	.	21.6
Pioneer Brand 3463W	35	105.5	98.2	0.0	14.2	41.9	.	21.6
<i>Pioneer Brand X1155FW</i>	36	144.1	98.2	0.0	15.5	45.8	.	22.1
<i>SeedTec ST-7545W</i>	37	124.1	91.4	0.0	11.6	48.4	.	24.0
Sturdy Grow SG730W	38	117.4	94.6	0.0	28.6	48.4	.	23.1
Sturdy Grow SG765W	39	120.1	89.6	0.5	27.1	48.8	.	24.5
Sturdy Grow SG777W	40	130.3	96.4	0.0	23.4	54.6	.	23.3
<i>Sturdy Grow SG781W</i>	41	127.3	95.5	0.0	23.4	46.8	.	25.5
Sturdy Grow SG797W	42	118.6	93.2	0.0	11.6	52.8	.	26.1
<i>Trisler T-4113W</i>	43	128.9	86.5	0.0	20.5	47.8	.	23.1
Trisler T-4211W	44	129.4	95.9	0.0	18.0	52.1	.	23.0
Vineyard V413W	45	99.2	91.4	0.5	18.7	45.2	.	22.6

Table 25. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Vineyard V414W	46	118.6	92.8	0.0	24.2	43.8	.	22.6
Vineyard V424W	47	136.3	91.0	0.5	13.3	49.3	.	25.1
Vineyard V438W	48	110.7	90.5	0.0	8.5	45.1	.	24.5
Vineyard V448W	49	141.2	95.5	0.0	14.1	51.2	.	25.4
Vineyard V449W	50	139.4	94.1	0.5	13.3	46.4	.	25.3
<i>Whisnand 50W</i>	51	131.6	93.7	0.0	27.3	53.2	.	23.4
<i>Whisnand 51AW</i>	52	131.2	91.9	0.0	32.4	54.7	.	23.2
<i>Whisnand 52AW</i>	53	125.7	93.2	0.0	31.1	49.5	.	23.2
<i>Wilson 1780W</i>	54	145.4	95.9	0.0	13.1	45.0	.	26.3
<i>Wilson 1790W</i>	55	140.4	94.1	0.0	10.5	42.9	.	26.4
<i>Wilson E1732</i>	56	139.0	95.0	0.0	16.6	48.4	.	24.7
<i>Wilson E1789</i>	57	118.6	89.2	0.0	26.8	49.4	.	25.7
<i>Zimmerman Z73W</i>	58	119.3	91.4	0.0	24.7	54.5	.	23.5
Yellow check B73 × Mo17	59	115.5	91.0	0.0	24.3	47.7	.	25.0
Yellow check Pioneer Brand 3394	60	124.9	91.9	0.0	18.1	41.1	.	21.9
Mean		126.2	92.9	0.1	21.2	48.1	.	23.9
LSD 0.05		16.9	6.7	ns	11.8	3.9		0.8
CV%		8.2	4.4		34.2	5.0		2.1

Table 26. Yield and agronomic data from the 1996 Early White Food Corn Performance Test at Marion, IA. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
AgriGold A6680W	1	184.9	.	.	.	56.0	91.7	33.1
<i>AgriGold XA4323W</i>	2	113.7	.	.	.	52.0	91.7	34.1
Asgrow XP7555W	3	203.6	.	.	.	54.0	91.3	33.5
<i>Beck Ex2251</i>	4	214.0	.	.	.	60.0	92.0	31.7
Crow's W54	5	135.5	.	.	.	55.3	93.3	31.9
Crow's W55	6	171.8	.	.	.	56.0	91.3	33.0
Crow's EX551	7	205.3	.	.	.	55.0	90.3	33.1
<i>Crow's EX552</i>	8	207.1	.	.	.	56.0	91.3	31.6
DEKALB Genetics DK703W	9	222.1	.	.	.	52.7	91.0	28.7
<i>DEKALB Genetics DK631W</i>	10	184.2	.	.	.	35.7	87.0	29.2
<i>DEKALB Genetics EXP564W</i>	11	167.5	.	.	.	58.0	93.0	33.8
<i>Golden Harvest EX-106W</i>	12	201.4	.	.	.	59.0	91.0	32.2
Hoegemeyer 1125W	13	186.8	.	.	.	55.0	93.0	33.0
Hoegemeyer 1131W	14	114.4	.	.	.	55.0	92.3	33.7
Hoegemeyer 1142W	15	154.2	.	.	.	52.0	91.3	34.2
ICI Seeds 8320W	16	185.0	.	.	.	57.0	93.0	32.1
<i>ICI Seeds N3527W</i>	17	177.2	.	.	.	44.0	86.0	27.5
IFSI 90-1	18	211.3	.	.	.	57.3	91.7	31.3
IFSI 93-4	19	192.6	.	.	.	55.0	91.0	33.2
IFSI 95-2	20	207.6	.	.	.	58.0	91.3	32.5
LG Seeds NB571W	21	181.5	.	.	.	46.0	89.0	30.0
LG Seeds NB710W	22	147.8	.	.	.	51.3	88.7	33.1
LG Seeds NB739W	23	164.8	.	.	.	40.3	89.0	33.7
LG Seeds NB742W	24	182.9	.	.	.	45.0	89.0	32.6
LG Seeds NB749W	25	207.2	.	.	.	54.0	92.0	32.3
Mycogen 7860W	26	194.4	.	.	.	60.0	92.7	31.7
<i>Mycogen X6688W</i>	27	202.8	.	.	.	58.0	92.0	32.0
<i>NC+ 5633W</i>	28	202.7	.	.	.	57.0	91.3	32.0
<i>NC+ 6555W</i>	29	204.2	.	.	.	57.0	92.3	33.0
<i>Northrup King X6545W</i>	30	204.6	.	.	.	56.0	91.3	31.2
<i>Northrup King X6955W</i>	31	196.7	.	.	.	55.0	91.3	33.1
Pioneer Brand 3287W	32	164.9	.	.	.	52.0	89.0	30.8
Pioneer Brand 3392W	33	197.6	.	.	.	53.7	92.0	28.5
Pioneer Brand 3443W	34	197.5	.	.	.	50.0	89.0	29.4
Pioneer Brand 3463W	35	185.2	.	.	.	50.0	88.3	26.9
<i>Pioneer Brand X1155FW</i>	36	167.8	.	.	.	53.0	88.7	30.0
<i>SeedTec ST-7545W</i>	37	154.7	.	.	.	52.0	94.3	34.0
Sturdy Grow SG730W	38	178.4	.	.	.	52.3	91.3	32.0
Sturdy Grow SG765W	39	186.3	.	.	.	55.0	91.3	32.0
Sturdy Grow SG777W	40	197.8	.	.	.	54.0	92.0	32.7
<i>Sturdy Grow SG781W</i>	41	191.5	.	.	.	53.3	91.3	34.1
Sturdy Grow SG797W	42	179.9	.	.	.	57.0	94.0	32.5
<i>Trisler T-4113W</i>	43	188.6	.	.	.	50.0	90.7	33.3
Trisler T-4211W	44	185.4	.	.	.	56.0	91.3	31.7
Vineyard V413W	45	154.7	.	.	.	54.7	91.7	30.7

Table 26. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Vineyard V414W	46	190.9	.	.	.	46.0	91.0	28.0
Vineyard V424W	47	169.8	.	.	.	58.0	91.0	33.8
Vineyard V438W	48	161.2	.	.	.	49.0	91.3	33.3
Vineyard V448W	49	160.8	.	.	.	51.0	92.0	34.4
Vineyard V449W	50	181.5	.	.	.	49.0	91.7	31.4
<i>Whisnand 50W</i>	51	211.9	.	.	.	58.0	91.3	32.0
<i>Whisnand 51AW</i>	52	208.9	.	.	.	56.7	93.3	31.5
<i>Whisnand 52AW</i>	53	129.6	.	.	.	50.0	91.7	34.7
<i>Wilson 1780W</i>	54	174.8	.	.	.	51.7	91.7	33.8
<i>Wilson 1790W</i>	55	192.5	.	.	.	52.0	92.0	33.4
<i>Wilson E1732</i>	56	176.6	.	.	.	51.7	93.3	34.3
<i>Wilson E1789</i>	57	181.0	.	.	.	58.0	94.7	34.7
<i>Zimmerman Z73W</i>	58	132.6	.	.	.	59.0	93.7	33.4
Yellow check B73 × Mo17	59	223.4	.	.	.	52.0	89.7	32.7
Yellow check Pioneer Brand 3394	60	196.8 [†]	.	.	.	48.0	90.3	26.7
Mean		182.5	.	.	.	53.3	91.3	32.1
LSD 0.05		32.7				5.9	1.5	2.5
CV%		11.0				6.7	1.0	4.7

[†] Data from two replications.

Table 27. Yield and agronomic data from the 1996 Early White Food Corn Performance Test at Ogden, IA. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
AgriGold A6680W	1	132.9	95.4	.	.	.	.	26.8
<i>AgriGold XA4323W</i>	2	125.4	55.2	.	.	.	.	24.3
Asgrow XP7555W	3	127.2	96.0	.	.	.	.	21.5
<i>Beck Ex2251</i>	4	149.5	91.4	.	.	.	.	22.2
Crow's W54	5	112.9	79.3	.	.	.	.	23.5
Crow's W55	6	129.4	85.6	.	.	.	.	23.6
Crow's EX551	7	132.3	86.2	.	.	.	.	21.8
<i>Crow's EX552</i>	8	147.0	92.0	.	.	.	.	21.8
DEKALB Genetics DK703W	9	122.3	90.2	.	.	.	.	26.3
<i>DEKALB Genetics DK631W</i>	10	120.9	87.9	.	.	.	.	21.5
<i>DEKALB Genetics EXP564W</i>	11	104.1	93.1	.	.	.	.	24.6
<i>Golden Harvest EX-106W</i>	12	143.2	85.6	.	.	.	.	21.8
Hoegemeyer 1125W	13	137.7	97.1	.	.	.	.	24.1
Hoegemeyer 1131W	14	106.3	80.5	.	.	.	.	26.9
Hoegemeyer 1142W	15	116.1	89.7	.	.	.	.	31.1
ICI Seeds 8320W	16	134.1	78.2	.	.	.	.	23.8
<i>ICI Seeds N3527W</i>	17	140.5	85.6	.	.	.	.	17.6
IFSI 90-1	18	139.4	74.7	.	.	.	.	23.1
IFSI 93-4	19	131.6	90.2	.	.	.	.	20.6
IFSI 95-2	20	144.9	94.8	.	.	.	.	21.3
LG Seeds NB571W	21	111.1	65.5	.	.	.	.	20.3
LG Seeds NB710W	22	110.4	72.4	.	.	.	.	24.0
LG Seeds NB739W	23	103.6	82.2	.	.	.	.	25.1
LG Seeds NB742W	24	118.0	75.9	.	.	.	.	27.1
LG Seeds NB749W	25	137.8 [†]	90.8	.	.	.	.	24.2 [†]
Mycogen 7860W	26	139.4	96.0	.	.	.	.	22.5
<i>Mycogen X6688W</i>	27	145.2	83.3	.	.	.	.	22.1
<i>NC+ 5633W</i>	28	139.0	92.5	.	.	.	.	25.3
<i>NC+ 6555W</i>	29	130.7	96.0	.	.	.	.	26.0
<i>Northrup King X6545W</i>	30	128.9	91.4	.	.	.	.	23.5
<i>Northrup King X6955W</i>	31	127.8	92.0	.	.	.	.	23.4
Pioneer Brand 3287W	32	127.2	87.9	.	.	.	.	23.7
Pioneer Brand 3392W	33	147.2	93.7	.	.	.	.	19.6
Pioneer Brand 3443W	34	127.6	95.4	.	.	.	.	17.8
Pioneer Brand 3463W	35	131.3	92.0	.	.	.	.	17.9
<i>Pioneer Brand X1155FW</i>	36	159.4	93.1	.	.	.	.	21.9
<i>SeedTec ST-7545W</i>	37	111.2	91.4	.	.	.	.	25.1
Sturdy Grow SG730W	38	132.1	90.2	.	.	.	.	24.3
Sturdy Grow SG765W	39	132.6	90.2	.	.	.	.	24.3
Sturdy Grow SG777W	40	140.0	89.1	.	.	.	.	22.7
<i>Sturdy Grow SG781W</i>	41	134.0	92.5	.	.	.	.	24.1
Sturdy Grow SG797W	42	138.8	83.9	.	.	.	.	26.0
<i>Trisler T-4113W</i>	43	140.7 [†]	82.2	.	.	.	.	23.0 [†]
Trisler T-4211W	44	143.6	92.5	.	.	.	.	21.8
Vineyard V413W	45	119.7	88.5	.	.	.	.	24.3

Table 27. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Vineyard V414W	46	128.1	92.5	.	.	.	.	22.2
Vineyard V424W	47	120.6	90.8	.	.	.	.	26.3
Vineyard V438W	48	110.8	97.1	.	.	.	.	25.3
Vineyard V448W	49	123.5	91.4	.	.	.	.	27.8
Vineyard V449W	50	136.8	96.0	.	.	.	.	28.9
<i>Whisnand 50W</i>	51	136.2	93.7	.	.	.	.	22.1
<i>Whisnand 51AW</i>	52	147.5	91.4	.	.	.	.	22.9
<i>Whisnand 52AW</i>	53	133.6	81.0	.	.	.	.	21.9
<i>Wilson 1780W</i>	54	127.1	85.6	.	.	.	.	30.0
<i>Wilson 1790W</i>	55	140.0	83.9	.	.	.	.	28.3
<i>Wilson E1732</i>	56	140.8	85.6	.	.	.	.	27.5
<i>Wilson E1789</i>	57	135.3	88.5	.	.	.	.	28.4
<i>Zimmerman Z73W</i>	58	103.1	85.6	.	.	.	.	23.5
Yellow check B73 × Mo17	59	121.8	91.4	.	.	.	.	20.7
Yellow check Pioneer Brand 3394	60	136.5	89.1	.	.	.	.	19.1
Mean		130.3	87.9	.	.	.	.	23.7
LSD 0.05		22.3	9.2					2.1
CV%		10.5	6.4					5.5

† Data from two replications.

Table 28. Yield and agronomic data from the 1996 Early White Food Corn Performance Test at St. Joseph, MO. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
AgriGold A6680W	1	210.2	100.0	1.8	3.0	.	.	17.9
<i>AgriGold XA4323W</i>	2	187.2	100.0	7.1	1.2	.	.	16.6
Asgrow XP7555W	3	204.9	100.0	33.9	14.3	.	.	17.3
<i>Beck Ex2251</i>	4	230.4	100.0	0.6	1.2	.	.	16.8
Crow's W54	5	215.4	100.0	2.4	7.1	.	.	18.1
Crow's W55	6	211.6	100.0	0.6	3.6	.	.	18.2
Crow's EX551	7	214.8	100.0	4.8	1.2	.	.	16.3
<i>Crow's EX552</i>	8	254.4	100.0	5.4	1.2	.	.	17.0
DEKALB Genetics DK703W	9	206.6	100.0	2.4	5.4	.	.	18.7
<i>DEKALB Genetics DK631W</i>	10	165.7	100.0	0.0	14.3	.	.	16.4
<i>DEKALB Genetics EXP564W</i>	11	273.2	100.0	0.0	0.0	.	.	19.6
<i>Golden Harvest EX-106W</i>	12	260.5	100.0	0.0	0.6	.	.	17.1
Hoegemeyer 1125W	13	236.6	94.0	3.7	0.7	.	.	18.4
Hoegemeyer 1131W	14	203.0	100.0	6.0	3.6	.	.	18.5
Hoegemeyer 1142W	15	203.8	100.0	10.1	13.7	.	.	21.4
ICI Seeds 8320W	16	222.4	100.0	10.7	1.2	.	.	17.8
<i>ICI Seeds N3527W</i>	17	170.7	100.0	0.0	4.2	.	.	15.6
IFSI 90-1	18	222.4	100.0	3.6	0.6	.	.	18.3
IFSI 93-4	19	220.8	100.0	3.6	7.1	.	.	16.8
IFSI 95-2	20	238.2	100.0	0.0	3.0	.	.	17.2
LG Seeds NB571W	21	163.4	100.0	0.0	8.9	.	.	15.4
LG Seeds NB710W	22	234.7	100.0	4.2	0.0	.	.	16.2
LG Seeds NB739W	23	164.1	100.0	0.6	1.8	.	.	18.6
LG Seeds NB742W	24	183.2	100.0	0.0	1.8	.	.	18.7
LG Seeds NB749W	25	198.5	100.0	0.6	3.6	.	.	18.0
Mycogen 7860W	26	227.2	100.0	16.1	24.4	.	.	17.6
<i>Mycogen X6688W</i>	27	243.1	100.0	7.1	1.2	.	.	17.3
<i>NC+ 5633W</i>	28	206.6	100.0	6.0	13.1	.	.	17.1
<i>NC+ 6555W</i>	29	211.2	100.0	7.1	1.2	.	.	18.5
<i>Northrup King X6545W</i>	30	233.0	100.0	6.0	2.4	.	.	17.5
<i>Northrup King X6955W</i>	31	222.7	100.0	1.8	14.3	.	.	17.2
Pioneer Brand 3287W	32	185.0	100.0	0.0	0.0	.	.	18.2
Pioneer Brand 3392W	33	174.8	100.0	6.0	4.2	.	.	16.2
Pioneer Brand 3443W	34	209.9	100.0	1.8	0.6	.	.	16.5
Pioneer Brand 3463W	35	180.9	100.0	0.0	0.0	.	.	15.9
<i>Pioneer Brand X1155FW</i>	36	240.1	100.0	1.8	0.0	.	.	19.0
<i>SeedTec ST-7545W</i>	37	254.9	100.0	0.0	0.6	.	.	19.5
Sturdy Grow SG730W	38	213.1	100.0	2.4	1.8	.	.	17.7
Sturdy Grow SG765W	39	197.5	100.0	3.6	8.3	.	.	17.1
Sturdy Grow SG777W	40	218.5	100.0	7.1	4.2	.	.	17.6
<i>Sturdy Grow SG781W</i>	41	219.4	100.0	1.2	1.2	.	.	18.5
<i>Sturdy Grow SG797W</i>	42	217.1	100.0	1.8	3.0	.	.	18.7
<i>Trisler T-4113W</i>	43	227.7	100.0	1.2	4.8	.	.	17.1
<i>Trisler T-4211W</i>	44	271.2	100.0	3.0	0.0	.	.	17.5
<i>Vineyard V413W</i>	45	200.1	100.0	0.0	0.6	.	.	16.8

Table 28. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Vineyard V414W	46	204.9	100.0	4.8	1.8	.	.	17.4
Vineyard V424W	47	251.1	100.0	3.6	0.6	.	.	18.5
Vineyard V438W	48	209.3	100.0	0.6	0.6	.	.	17.8
Vineyard V448W	49	215.3	100.0	2.4	1.2	.	.	18.7
Vineyard V449W	50	200.1	100.0	1.8	1.8	.	.	18.9
<i>Whisnand 50W</i>	51	248.2	100.0	5.4	1.2	.	.	17.0
<i>Whisnand 51AW</i>	52	242.8	100.0	6.0	3.0	.	.	18.1
<i>Whisnand 52AW</i>	53	207.4	100.0	7.1	2.4	.	.	17.0
<i>Wilson 1780W</i>	54	222.2	100.0	0.0	4.8	.	.	20.2
<i>Wilson 1790W</i>	55	222.9	100.0	1.8	1.8	.	.	19.4
<i>Wilson E1732</i>	56	248.8	100.0	1.2	3.0	.	.	18.1
<i>Wilson E1789</i>	57	231.2	100.0	1.2	0.0	.	.	18.6
<i>Zimmerman Z73W</i>	58	201.9	100.0	0.0	0.6	.	.	19.2
Yellow check B73 × Mo17	59	217.4	100.0	3.0	4.2	.	.	17.1
Yellow check Pioneer Brand 3394	60	205.7	100.0	0.6	1.2	.	.	16.3
Mean		216.3	99.9	3.6	3.6	.	.	17.7
LSD 0.05		31.9	ns	8.7	ns			0.6
CV%		9.0		148.3				2.0

Table 29. Yield and agronomic data from the 1996 Early White Food Corn Performance Test at Clay Center, NE. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
AgriGold A6680W	1	180.5	95.1	10.8	5.8	.	87.3	19.1
<i>AgriGold XA4323W[†]</i>	2	152.1	69.1	2.1	6.4	.	87.0	17.6
Asgrow XP7555W	3	182.5	103.9	2.9	5.5	.	87.3	16.4
<i>Beck Ex2251</i>	4	201.5	96.1	3.0	14.1	.	88.3	16.8
Crow's W54	5	198.6	90.7	1.6	4.8	.	88.0	18.3
Crow's W55	6	165.6	91.7	0.5	3.8	.	87.7	17.4
Crow's EX551	7	183.3	99.0	1.5	10.3	.	86.0	16.7
<i>Crow's EX552</i>	8	200.0	98.0	10.5	4.6	.	87.0	17.4
DEKALB Genetics DK703W	9	167.4	94.6	23.1	10.3	.	86.3	18.0
<i>DEKALB Genetics DK631W</i>	10	175.9	97.1	0.0	1.5	.	84.3	16.7
<i>DEKALB Genetics EXP564W</i>	11	169.3	92.2	0.5	3.7	.	89.0	17.3
<i>Golden Harvest EX-106W</i>	12	173.6	91.7	13.8	7.0	.	87.3	17.7
Hoegemeyer 1125W	13	177.1	97.1	10.4	8.8	.	89.0	18.7
Hoegemeyer 1131W	14	163.8	95.1	0.6	4.6	.	89.0	17.6
Hoegemeyer 1142W	15	166.2	94.1	11.5	9.4	.	88.0	21.8
ICI Seeds 8320W	16	174.6	89.7	4.6	5.7	.	89.0	17.7
<i>ICI Seeds N3527W</i>	17	178.6	100.5	1.4	3.3	.	83.0	15.8
IFSI 90-1	18	195.9	95.1	1.6	6.1	.	89.0	17.7
IFSI 93-4	19	149.0	100.0	5.6	9.2	.	86.3	16.8
IFSI 95-2	20	192.6	94.1	5.7	9.9	.	87.3	17.0
LG Seeds NB571W	21	153.9	79.4	5.1	1.9	.	83.3	15.5
LG Seeds NB710W	22	179.6	82.8	18.8	8.7	.	84.0	16.3
LG Seeds NB739W	23	166.3	91.7	6.9	6.5	.	85.3	18.2
LG Seeds NB742W	24	165.4	89.2	7.2	5.2	.	84.0	18.6
LG Seeds NB749W	25	153.0	86.8	3.7	5.3	.	89.0	18.5
Mycogen 7860W	26	175.1	94.6	5.2	4.3	.	87.3	17.8
<i>Mycogen X6688W</i>	27	180.5	93.1	1.1	17.0	.	89.0	17.1
<i>NC+ 5633W</i>	28	168.7	93.1	8.5	10.4	.	87.7	18.2
<i>NC+ 6555W</i>	29	170.4	102.9	10.9	5.8	.	89.0	18.4
<i>Northrup King X6545W</i>	30	165.6	86.3	6.0	9.6	.	87.3	17.0
<i>Northrup King X6955W</i>	31	182.6	84.3	1.8	10.4	.	86.3	17.3
Pioneer Brand 3287W	32	155.6	94.1	8.1	3.1	.	84.3	17.9
Pioneer Brand 3392W	33	161.5	96.6	6.8	4.6	.	88.3	15.5
Pioneer Brand 3443W	34	142.0	106.9	2.7	15.2	.	85.0	16.1
Pioneer Brand 3463W	35	174.2	105.9	2.8	0.5	.	83.3	15.9
<i>Pioneer Brand X1155FW</i>	36	198.2	95.6	4.1	7.7	.	84.7	17.9
<i>SeedTec ST-7545W</i>	37	150.1	98.5	0.5	2.0	.	89.0	16.4
Sturdy Grow SG730W	38	171.7	86.8	6.2	8.3	.	87.0	17.6
Sturdy Grow SG765W	39	159.7	99.5	4.9	17.2	.	86.7	17.1
Sturdy Grow SG777W	40	155.4	91.7	7.2	8.2	.	88.3	17.7
<i>Sturdy Grow SG781W</i>	41	185.0	95.1	3.9	4.9	.	88.3	16.9
Sturdy Grow SG797W	42	183.1	102.5	4.3	10.9	.	88.0	18.9
<i>Trisler T-4113W</i>	43	176.8	89.7	3.1	10.2	.	85.7	16.6
Trisler T-4211W	44	188.6	98.0	8.4	7.5	.	87.7	17.5
Vineyard V413W	45	160.8	95.1	0.5	12.3	.	88.0	17.0

Table 29. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Vineyard V414W	46	146.5	96.6	1.5	7.1	.	86.3	17.3
Vineyard V424W	47	196.1	100.0	6.1	5.5	.	86.7	18.2
Vineyard V438W	48	173.6	101.5	3.3	5.9	.	85.0	17.3
Vineyard V448W	49	180.9	94.6	4.1	9.2	.	87.0	19.0
Vineyard V449W	50	165.1	97.1	3.0	10.3	.	85.7	18.6
<i>Whisnand 50W</i>	51	190.0 [‡]	97.5	8.3	8.5	.	88.0	17.1 [‡]
<i>Whisnand 51AW</i>	52	199.5	102.0	10.7	12.1	.	89.0	18.0
<i>Whisnand 52AW</i>	53	168.4	86.3	3.3	15.0	.	85.0	16.5
<i>Wilson 1780W</i>	54	203.6	100.0	1.8	2.0	.	88.3	19.9
<i>Wilson 1790W</i>	55	203.5 [‡]	98.5	8.2	3.5	.	87.7	19.1 [‡]
<i>Wilson E1732</i>	56	195.9	87.7	4.2	0.6	.	89.0	17.7
<i>Wilson E1789</i>	57	180.0	93.1	2.0	4.6	.	89.0	18.8
<i>Zimmerman Z73W</i>	58	177.9	92.6	4.5	3.7	.	89.0	17.0
Yellow check B73 × Mo17	59	168.7	81.9	5.6	6.2	.	86.3	16.4
Yellow check Pioneer Brand 3394	60	205.4	102.0	1.4	4.8	.	86.3	16.1
Mean		175.5	94.3	5.3	7.2	.	87.0	17.5
LSD 0.05		31.3	11.3	9.5	7.9		2.1	1.0
CV%		10.9	7.3	109.9	67.2		1.5	3.4

[†] No data from this location. Estimates are based on deviations from the means at all other locations.

[‡] Data from two locations.

Table 30. Yield and agronomic data from the 1996 Early White Food Corn Performance Test at Gothenburg, NE. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
AgriGold A6680W	1	102.9	108.7	.	16.3	.	.	17.8
<i>AgriGold XA4323W</i>	2	90.8	45.3	.	7.7	.	.	16.2
Asgrow XP7555W	3	99.5	110.3	.	13.6	.	.	15.7
<i>Beck Ex2251</i>	4	112.9	101.7	.	19.2	.	.	15.6
Crow's W54	5	105.7	81.0	.	12.3	.	.	16.2
Crow's W55	6	97.9	96.3	.	12.4	.	.	16.6
Crow's EX551	7	108.7	98.7	.	13.9	.	.	15.9
<i>Crow's EX552</i>	8	119.9	96.0	.	19.6	.	.	15.8
DEKALB Genetics DK703W	9	115.6	101.7	.	13.0	.	.	17.7
<i>DEKALB Genetics DK631W</i>	10	139.4	98.0	.	7.4	.	.	16.7
<i>DEKALB Genetics EXP564W</i>	11	84.2	91.3	.	9.8	.	.	15.3
<i>Golden Harvest EX-106W</i>	12	110.2	101.3	.	20.4	.	.	15.2
Hoegemeyer 1125W	13	116.4	104.7	.	17.0	.	.	17.8
Hoegemeyer 1131W	14	97.3	89.0	.	8.9	.	.	17.8
Hoegemeyer 1142W	15	117.9	109.3	.	14.3	.	.	22.2
ICI Seeds 8320W	16	96.2	95.0	.	14.5	.	.	15.5
<i>ICI Seeds N3527W</i>	17	126.0	95.0	.	9.1	.	.	15.6
IFSI 90-1	18	119.1	96.7	.	19.3	.	.	15.5
IFSI 93-4	19	97.7	101.0	.	14.8	.	.	16.0
IFSI 95-2	20	127.6	99.0	.	13.8	.	.	15.6
LG Seeds NB571W	21	113.2	86.3	.	17.4	.	.	14.8
LG Seeds NB710W	22	107.9	80.7	.	17.0	.	.	18.4
LG Seeds NB739W	23	128.5	96.7	.	10.7	.	.	21.9
LG Seeds NB742W	24	94.8	95.0	.	15.5	.	.	19.3
LG Seeds NB749W	25	116.6	102.0	.	15.7	.	.	17.8
Mycogen 7860W	26	96.3	103.7	.	18.3	.	.	15.5
<i>Mycogen X6688W</i>	27	115.1	100.3	.	19.6	.	.	15.5
<i>NC+ 5633W</i>	28	104.7	106.0	.	25.8	.	.	17.1
<i>NC+ 6555W</i>	29	99.6	108.0	.	17.1	.	.	18.9
<i>Northrup King X6545W</i>	30	81.0	102.3	.	25.4	.	.	15.8
<i>Northrup King X6955W</i>	31	111.1	99.3	.	18.7	.	.	17.0
Pioneer Brand 3287W	32	149.5	108.0	.	6.8	.	.	17.5
Pioneer Brand 3392W	33	99.2	102.7	.	12.7	.	.	14.2
Pioneer Brand 3443W	34	89.3	108.0	.	21.9	.	.	13.3
Pioneer Brand 3463W	35	122.0	106.0	.	8.9	.	.	14.7
<i>Pioneer Brand X1155FW</i>	36	138.0	105.3	.	12.7	.	.	16.0
<i>SeedTec ST-7545W</i>	37	81.0	98.7	.	11.6	.	.	15.5
Sturdy Grow SG730W	38	97.4	101.0	.	20.1	.	.	15.7
Sturdy Grow SG765W	39	105.8	94.3	.	22.2	.	.	16.4
Sturdy Grow SG777W	40	96.6	97.3	.	16.6	.	.	16.0
<i>Sturdy Grow SG781W</i>	41	98.1	104.0	.	19.5	.	.	18.3
Sturdy Grow SG797W	42	80.4	109.7	.	19.3	.	.	18.7
<i>Trisler T-4113W</i>	43	112.8	91.0	.	8.1	.	.	15.7
Trisler T-4211W	44	123.1	94.7	.	18.9	.	.	15.2
Vineyard V413W	45	97.0	93.3	.	13.4	.	.	15.5

Table 30. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Vineyard V414W	46	92.2	107.0	.	24.3	.	.	15.7
Vineyard V424W	47	113.0	98.7	.	10.3	.	.	18.7
Vineyard V438W	48	105.5	103.0	.	12.5	.	.	17.1
Vineyard V448W	49	106.2	101.0	.	16.2	.	.	19.3
Vineyard V449W	50	122.4	102.7	.	14.8	.	.	20.2
<i>Whisnand 50W</i>	51	128.9	100.3	.	16.9	.	.	15.3
<i>Whisnand 51AW</i>	52	105.8	105.0	.	16.9	.	.	15.5
<i>Whisnand 52AW</i>	53	109.1	84.0	.	12.3	.	.	15.6
<i>Wilson 1780W</i>	54	149.1	109.0	.	9.9	.	.	22.5
<i>Wilson 1790W</i>	55	144.7	102.3	.	8.2	.	.	22.4
<i>Wilson E1732</i>	56	131.2	94.0	.	12.6	.	.	19.9
<i>Wilson E1789</i>	57	88.6	105.7	.	14.8	.	.	20.7
<i>Zimmerman Z73W</i>	58	82.9	96.0	.	7.7	.	.	15.6
Yellow check B73 × Mo17	59	127.7	97.7	.	12.4	.	.	16.8
Yellow check Pioneer Brand 3394	60	152.5	96.3	.	15.1	.	.	14.6
Mean		110.1	98.6	.	14.9	.	.	16.9
LSD 0.05		20.6	11.2		7.5			1.0
CV%		11.4	6.9		30.8			3.6

Table 31. Yield and agronomic data from the 1996 Early White Food Corn Performance Test at Hoytville, OH. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
AgriGold A6680W	1	81.0	120.2	0.0	94.6	48.7	83.3	24.1
<i>AgriGold XA4323W</i>	2	87.6	89.1	0.0	89.3	40.3	79.7	19.6
Asgrow XP7555W	3	89.7	108.9	0.0	97.1	38.7	79.7	19.1
<i>Beck Ex2251</i>	4	90.1	109.3	0.0	99.0	48.7	79.7	18.9
Crow's W54	5	81.2	94.2	0.0	96.8	44.0	79.7	19.2
Crow's W55	6	78.8	97.3	0.0	94.6	41.0	78.7	19.3
Crow's EX551	7	84.4	100.8	0.0	100.0	46.7	80.3	19.2
<i>Crow's EX552</i>	8	82.4	101.2	0.0	94.9	49.3	80.7	18.3
DEKALB Genetics DK703W	9	79.8	100.4	0.0	95.4	42.7	80.3	20.0
<i>DEKALB Genetics DK631W</i>	10	92.0	104.3	0.0	100.0	37.0	77.0	18.5
<i>DEKALB Genetics EXP564W</i>	11	67.1	107.8	0.0	86.3	46.3	82.0	17.6
<i>Golden Harvest EX-106W</i>	12	72.1	99.6	0.0	100.0	49.0	78.0	16.7
Hoegemeyer 1125W	13	81.4	105.4	0.0	99.0	45.3	81.3	20.7
Hoegemeyer 1131W	14	103.1	101.6	0.0	97.6	46.7	79.7	19.0
Hoegemeyer 1142W	15	98.5	100.0	0.0	91.2	39.7	79.7	23.4
ICI Seeds 8320W	16	84.9	110.9	0.0	97.3	43.7	80.7	20.0
<i>ICI Seeds N3527W</i>	17	85.5 [†]	90.7	0.0	91.3	45.0	74.7	15.8 [†]
IFSI 90-1	18	82.7	91.1	0.0	93.4	48.3	80.3	19.0
IFSI 93-4	19	91.5	99.6	0.0	97.7	41.7	77.0	16.7
IFSI 95-2	20	80.1	102.3	0.0	100.0	50.3	79.0	16.7
LG Seeds NB571W	21	92.6	101.2	0.0	92.8	37.0	76.7	16.5
LG Seeds NB710W	22	80.9	95.7	0.0	94.0	43.3	80.0	19.7
LG Seeds NB739W	23	90.8	90.7	0.0	91.9	43.3	80.0	19.5
LG Seeds NB742W	24	83.9	89.9	0.0	94.5	35.7	78.3	18.1
LG Seeds NB749W	25	84.2	90.7	0.0	100.0	43.0	78.7	18.5
Mycogen 7860W	26	77.3	116.3	0.0	91.3	47.0	82.0	19.9
<i>Mycogen X6688W</i>	27	87.3	105.0	0.0	96.5	51.0	80.3	17.1
<i>NC+ 5633W</i>	28	83.0	116.7	0.0	95.7	46.0	81.0	21.0
<i>NC+ 6555W</i>	29	66.5	114.0	0.0	95.2	45.0	80.3	20.5
<i>Northrup King X6545W</i>	30	74.8	101.9	0.0	99.6	46.0	79.0	18.5
<i>Northrup King X6955W</i>	31	78.9	103.1	0.0	96.6	47.3	80.3	20.2
Pioneer Brand 3287W	32	86.4	106.6	0.0	96.8	38.7	75.0	19.2
Pioneer Brand 3392W	33	86.2	105.0	0.0	93.4	39.3	79.7	19.1
Pioneer Brand 3443W	34	76.8	114.3	0.0	93.9	37.3	74.7	16.4
Pioneer Brand 3463W	35	77.0	111.6	0.0	97.7	39.3	76.0	17.9
<i>Pioneer Brand X1155FW</i>	36	86.9	102.3	0.0	98.9	43.0	79.3	17.4
<i>SeedTec ST-7545W</i>	37	76.0	102.7	0.0	96.6	50.0	81.3	19.7
Sturdy Grow SG730W	38	88.5	109.7	0.0	93.7	49.3	79.3	17.2
Sturdy Grow SG765W	39	92.2	107.8	0.0	91.1	45.3	80.3	21.1
Sturdy Grow SG777W	40	86.0	107.0	0.0	85.2	52.3	81.7	19.6
<i>Sturdy Grow SG781W</i>	41	85.6	108.1	0.0	91.3	43.3	78.7	21.1
Sturdy Grow SG797W	42	74.2	118.6	0.0	95.7	44.7	83.3	21.7
<i>Trisler T-4113W</i>	43	82.3	100.0	0.0	92.8	43.7	80.7	19.8
Trisler T-4211W	44	89.3	95.7	0.0	98.3	45.0	79.7	19.4
Vineyard V413W	45	76.7	103.5	0.0	97.0	46.0	80.0	17.7

Table 31. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Vineyard V414W	46	77.2	102.7	0.0	95.9	44.7	79.3	18.6
Vineyard V424W	47	85.7	98.4	0.0	94.6	42.0	78.7	19.8
Vineyard V438W	48	77.0	108.1	0.0	97.4	45.3	81.3	19.3
Vineyard V448W	49	99.9	106.2	0.0	84.1	45.3	81.3	21.7
Vineyard V449W	50	84.8	111.6	0.0	88.7	44.3	82.0	21.5
<i>Whisnand 50W</i>	51	93.1	100.8	0.0	100.0	50.7	79.0	16.9
<i>Whisnand 51AW</i>	52	88.4	100.8	0.0	99.2	44.3	79.0	18.7
<i>Whisnand 52AW</i>	53	97.9	99.6	0.0	97.9	46.0	79.0	19.1
<i>Wilson 1780W</i>	54	77.3	112.0	0.0	98.5	44.7	81.0	20.4
<i>Wilson 1790W</i>	55	75.8	108.5	0.0	97.3	44.7	80.7	20.5
<i>Wilson E1732</i>	56	96.7	89.5	0.0	88.2	50.7	80.3	23.5
<i>Wilson E1789</i>	57	84.5	111.2	0.0	98.6	46.3	80.7	19.8
<i>Zimmerman Z73W</i>	58	75.0	95.7	0.0	100.0	42.3	80.3	18.9
Yellow check B73 × Mo17	59	93.3	110.5	0.0	99.6	48.7	79.0	18.5
Yellow check Pioneer Brand 3394	60	88.3	96.5	0.0	95.3	42.7	78.3	19.8
Mean		84.2	103.4	0.0	95.4	44.6	79.6	19.3
LSD 0.05		ns	15.1	ns	ns	8.0	3.2	3.3
CV%			9.0			11.0	2.5	10.4

† Data from two replications.

Table 32. Yield and agronomic data from the 1996 Early White Food Corn Performance Test at Knoxville, TN. New entries for 1996 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
AgriGold A6680W	1	138.2	91.1	0.0	0.0	47.3	67.3	21.7
<i>AgriGold XA4323W</i>	2	151.0	86.1	0.0	0.6	45.0	67.7	21.5
Asgrow XP7555W	3	139.6	94.4	0.0	0.6	46.3	67.0	19.8
<i>Beck Ex2251</i>	4	190.1	90.0	0.0	0.0	57.0	67.3	19.4
Crow's W54	5	140.7	88.9	0.0	0.6	47.0	68.7	21.1
Crow's W55	6	139.3	88.9	0.0	1.2	52.0	66.7	20.0
Crow's EX551	7	178.9	88.9	0.0	0.7	47.0	67.3	20.2
<i>Crow's EX552</i>	8	180.0	94.4	0.0	1.8	49.0	67.7	19.9
DEKALB Genetics DK703W	9	166.3	98.9	0.0	0.6	47.0	67.0	21.3
<i>DEKALB Genetics DK631W</i>	10	169.1	99.4	0.0	1.1	37.0	65.3	19.1
<i>DEKALB Genetics EXP564W</i>	11	178.4	93.9	0.0	0.6	49.0	68.0	18.8
<i>Golden Harvest EX-106W</i>	12	194.2	98.3	0.0	0.6	53.3	66.7	19.1
Hoegemeyer 1125W	13	147.7	97.2	0.0	0.0	48.0	67.7	21.6
Hoegemeyer 1131W	14	152.3	91.7	0.0	0.6	51.7	70.0	20.9
Hoegemeyer 1142W	15	146.4	95.0	0.0	0.6	46.0	69.3	23.3
ICI Seeds 8320W	16	147.0	95.0	0.0	0.6	46.0	67.3	20.8
<i>ICI Seeds N3527W</i>	17	151.5	92.2	0.0	1.2	40.7	63.0	17.6
IFSI 90-1	18	172.9	87.2	0.0	0.6	51.0	67.0	21.1
IFSI 93-4	19	192.5	92.8	0.0	1.3	48.7	67.3	21.6
IFSI 95-2	20	189.2	94.4	0.0	0.6	57.0	66.0	19.5
LG Seeds NB571W	21	160.7	92.8	0.0	4.3	40.0	65.7	16.6
LG Seeds NB710W	22	168.9	94.4	0.0	0.0	49.0	65.7	19.8
LG Seeds NB739W	23	175.0	99.4	0.0	1.1	40.3	66.7	20.7
LG Seeds NB742W	24	156.0	91.1	0.0	1.3	34.3	65.3	20.3
LG Seeds NB749W	25	146.5	97.8	0.6	0.0	48.0	68.0	21.3
Mycogen 7860W	26	145.6	87.8	0.0	0.0	47.3	66.7	20.9
<i>Mycogen X6688W</i>	27	189.6	92.8	0.0	1.2	57.7	66.7	19.3
<i>NC+ 5633W</i>	28	166.9	92.8	0.0	0.0	51.0	67.3	19.9
<i>NC+ 6555W</i>	29	135.8	99.4	0.0	0.0	47.0	68.0	20.7
<i>Northrup King X6545W</i>	30	180.6	91.1	0.0	1.3	52.0	66.7	20.3
<i>Northrup King X6955W</i>	31	173.1	92.2	0.0	1.8	52.0	67.3	20.8
Pioneer Brand 3287W	32	151.3	97.2	0.0	0.0	45.7	64.3	20.2
Pioneer Brand 3392W	33	179.9	95.6	0.0	1.2	50.0	66.0	18.6
Pioneer Brand 3443W	34	171.4	98.9	0.0	0.0	51.0	64.0	19.6
Pioneer Brand 3463W	35	173.9	96.7	0.0	1.2	45.7	63.3	18.8
<i>Pioneer Brand X1155FW</i>	36	184.2	98.9	0.0	0.0	46.0	65.7	19.9
<i>SeedTec ST-7545W</i>	37	200.6	95.6	0.0	1.2	51.0	68.7	19.4
Sturdy Grow SG730W	38	172.7	95.0	0.0	0.0	53.0	67.0	20.0
Sturdy Grow SG765W	39	187.8	95.0	0.0	1.1	50.0	67.3	20.0
Sturdy Grow SG777W	40	151.8	83.9	0.0	0.0	51.7	67.3	21.0
<i>Sturdy Grow SG781W</i>	41	147.9	91.1	0.0	0.0	47.0	68.0	21.3
Sturdy Grow SG797W	42	131.3	94.4	0.0	0.6	48.7	70.7	21.6
<i>Trisler T-4113W</i>	43	189.1	91.7	0.0	1.8	48.0	66.7	20.2
<i>Trisler T-4211W</i>	44	183.6	96.1	0.0	2.9	57.0	66.3	19.5
Vineyard V413W	45	145.5	90.6	0.0	0.0	51.7	67.7	18.5

Table 32. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Vineyard V414W	46	152.1	91.7	0.0	0.7	46.0	66.3	18.8
Vineyard V424W	47	168.1	98.9	0.0	0.6	48.7	66.7	20.0
Vineyard V438W	48	149.9	92.8	0.0	0.6	46.0	65.7	19.8
Vineyard V448W	49	182.8	95.6	0.0	0.6	48.0	66.0	19.8
Vineyard V449W	50	166.4	97.2	0.0	0.0	44.0	66.7	20.7
<i>Whisnand 50W</i>	51	186.4	95.6	0.0	1.1	51.0	67.7	20.1
<i>Whisnand 51AW</i>	52	175.3	93.3	0.6	0.0	48.7	67.7	21.0
<i>Whisnand 52AW</i>	53	181.3	96.1	0.0	1.1	47.0	67.3	20.9
<i>Wilson 1780W</i>	54	179.2	92.2	0.0	0.0	45.0	65.7	20.0
<i>Wilson 1790W</i>	55	157.3	88.9	0.0	0.0	46.3	67.0	19.7
<i>Wilson E1732</i>	56	177.0	96.1	0.0	0.0	52.0	69.3	19.3
<i>Wilson E1789</i>	57	173.3	97.2	0.0	1.3	53.0	68.7	20.8
<i>Zimmerman Z73W</i>	58	160.8	97.8	0.0	0.0	47.3	71.7	19.4
Yellow check B73 × Mo17	59	158.7	97.8	0.0	4.6	49.7	65.0	17.5
Yellow check Pioneer Brand 3394	60	186.9	94.4	0.0	0.0	48.0	64.3	17.6
Mean		166.5	93.9	0.0	0.8	48.4	67.0	20.1
LSD 0.05		23.4	ns	ns	ns	3.2	1.8	1.0
CV%		8.6				4.0	1.7	3.1

Table 33. Combined yield and agronomic data from eight northern locations of the 1996 Early White Food Corn Performance Test.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)	b ₁ (bu/a/I)	Std. devn. (bu/a)
AgriGold A6680W	1	141.0	102.3	3.3	28.6	49.3	87.4	23.5	1.03	4.7
AgriGold XA4323W	2	122.3	70.1	2.3	24.6	44.6	86.1	21.6	0.67	20.0
Asgrow XP7555W	3	143.5	102.3	9.3	31.1	45.7	86.1	20.9	1.02	11.3
Beck Ex2251	4	154.5	97.9	0.9	35.1	53.1	86.7	20.7	1.18	10.8
Crow's W54	5	136.0	86.1	1.0	27.5	48.5	87.0	21.7	0.96	21.3
Crow's W55	6	136.5	94.4	0.3	28.2	48.4	85.9	21.9	0.98	5.6
Crow's EX551	7	146.3	96.1	1.6	27.8	46.7	85.6	21.0	1.07	8.1
Crow's EX552	8	156.0	95.5	4.0	28.6	52.0	86.3	20.7	1.32	7.2
DEKALB Genetics DK703W	9	141.2	96.0	6.4	30.0	45.9	85.9	22.1	1.10	18.9
DEKALB Genetics DK631W	10	139.4	97.1	0.0	27.1	33.4	82.8	20.2	0.64	17.6
DEKALB Genetics EXP564W	11	138.4	92.9	0.1	22.1	47.3	88.0	21.7	1.40	21.5
Golden Harvest EX-106W	12	148.7	96.0	3.5	33.7	51.6	85.4	20.6	1.34	12.0
Hoegemeyer 1125W	13	148.0	98.9	3.5	28.9	48.6	87.8	22.5	1.11	5.3
Hoegemeyer 1131W	14	127.8	93.0	1.6	27.0	47.6	87.0	22.6	0.68	22.2
Hoegemeyer 1142W	15	140.4	96.0	5.4	28.6	46.3	86.3	25.8	0.73	11.6
ICI Seeds 8320W	16	141.6	93.9	4.0	30.7	49.4	87.6	21.5	1.07	5.6
ICI Seeds N3527W	17	138.6	95.1	0.4	23.3	37.6	81.2	18.6	0.72	14.9
IFSI 90-1	18	153.5	91.9	1.3	27.9	51.1	87.0	21.2	1.12	8.6
IFSI 93-4	19	142.1	98.2	2.3	30.1	46.5	84.8	20.5	0.97	13.6
IFSI 95-2	20	154.4	96.2	1.4	31.6	53.2	85.9	20.8	1.18	8.2
LG Seeds NB571W	21	128.4	85.5	1.3	28.5	37.3	83.0	19.3	0.68	14.2
LG Seeds NB710W	22	134.9	85.8	5.9	29.1	45.1	84.2	21.4	1.08	16.9
LG Seeds NB739W	23	132.7	92.1	2.0	24.6	38.5	84.8	23.3	0.60	14.3
LG Seeds NB742W	24	134.3	89.1	1.8	27.4	39.2	83.8	22.8	0.84	11.1
LG Seeds NB749W	25	143.9	95.0	1.1	30.7	48.3	86.6	22.1	0.88	15.3
Mycogen 7860W	26	144.2	100.8	5.6	32.0	50.9	87.3	21.2	1.14	6.9
Mycogen X6688W	27	155.0	96.5	2.0	33.7	52.3	87.1	20.6	1.13	8.4
NC+ 5633W	28	142.2	99.0	3.6	33.6	48.1	86.7	22.0	1.02	11.3
NC+ 6555W	29	143.3	101.1	4.8	28.2	49.7	87.2	22.9	1.09	13.5
Northrup King X6545W	30	139.4	96.0	3.0	34.2	48.4	85.9	21.0	1.26	12.0
Northrup King X6955W	31	145.4	94.3	1.0	32.5	49.3	86.0	21.7	1.11	4.0
Pioneer Brand 3287W	32	139.4	96.8	2.1	22.2	43.4	82.8	21.9	0.63	15.2
Pioneer Brand 3392W	33	138.3	99.3	3.2	26.0	44.5	86.7	19.3	0.80	17.6
Pioneer Brand 3443W	34	130.6	102.5	1.2	31.5	41.5	82.9	18.8	1.07	15.5
Pioneer Brand 3463W	35	134.9	99.8	0.7	24.3	41.3	82.6	18.7	0.86	14.8
Pioneer Brand X1155FW	36	157.5	99.0	1.5	27.0	45.4	84.2	20.6	0.99	16.2
SeedTec ST-7545W	37	133.9	95.7	0.1	24.5	48.0	88.2	22.0	1.18	22.9
Sturdy Grow SG730W	38	136.3	96.5	2.1	30.5	48.3	85.9	20.9	1.03	9.3
Sturdy Grow SG765W	39	137.9	97.3	2.2	33.2	47.5	86.1	21.8	0.87	7.7
Sturdy Grow SG777W	40	143.0	96.8	3.6	27.5	53.2	87.3	21.4	1.01	12.6
Sturdy Grow SG781W	41	145.9	99.3	1.3	28.1	46.1	86.1	22.6	1.06	7.3
Sturdy Grow SG797W	42	141.8	100.3	1.5	28.1	50.3	88.4	23.2	1.07	17.5
Trisler T-4113W	43	148.3	91.5	1.1	27.3	45.5	85.7	21.3	1.04	5.4
Trisler T-4211W	44	155.6	96.7	2.9	28.5	50.7	86.2	21.0	1.27	14.2
Vineyard V413W	45	127.4	95.0	0.3	28.4	46.1	86.6	20.7	0.91	8.2

Table 33. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)	b ₁ (bu/a/I)	Std. devn. (bu/a)
Vineyard V414W	46	133.8	98.9	1.6	30.7	43.5	85.6	20.3	0.98	12.0
Vineyard V424W	47	148.9	97.0	2.5	24.9	48.4	85.4	22.9	1.17	14.5
Vineyard V438W	48	132.6	100.0	1.0	25.0	45.2	85.9	22.1	0.98	8.3
Vineyard V448W	49	144.5	98.4	1.6	25.0	46.4	86.8	23.6	0.85	12.0
Vineyard V449W	50	143.6	99.1	1.3	25.8	45.3	86.4	23.4	0.82	7.3
<i>Whisnand 50W</i>	51	156.1	97.5	3.4	30.8	53.0	86.1	20.7	1.21	9.5
<i>Whisnand 51AW</i>	52	154.6	98.6	4.2	32.7	50.3	87.1	21.2	1.25	7.0
<i>Whisnand 52AW</i>	53	134.1	88.6	2.6	31.7	46.7	85.2	21.1	0.75	17.8
<i>Wilson 1780W</i>	54	155.1	100.3	0.5	25.6	44.5	87.0	24.7	0.94	19.2
<i>Wilson 1790W</i>	55	156.7	96.5	2.5	24.3	44.4	86.8	24.2	1.02	14.3
<i>Wilson E1732</i>	56	157.0	92.2	1.3	24.2	48.0	87.6	23.4	1.06	11.6
<i>Wilson E1789</i>	57	139.6	97.8	0.8	29.0	49.9	88.1	23.8	1.18	10.0
<i>Zimmerman Z73W</i>	58	125.3	92.5	1.1	27.3	50.1	87.7	21.7	0.93	17.8
Yellow check B73 × Mo17	59	149.1	94.7	2.1	29.3	47.0	85.0	21.0	1.03	18.4
Yellow check Pioneer Brand 3394	60	155.5	95.1	0.5	26.9	42.4	85.0	19.2	0.90	18.0
Mean		142.5	95.7	2.3	28.4	46.8	86.0	21.6	1.00	12.7
LSD 0.05		15.2	5.7	ns	6.0	3.8	1.6	1.1	0.09	
CV%		11.1	6.5		22.0	7.9	1.7	5.1		
Location means:										
Galesburg, IL		115.0	92.5	.	.	41.4	.	21.6		
Wanatah, IN		126.2	92.9	0.1	21.2	48.1	.	23.9		
Marion, IA		182.5	.	.	.	53.3	91.3	32.1		
Ogden, IA		130.3	87.9	.	.	.	.	23.7		
St. Joseph, MO		216.3	99.9	3.6	3.6	.	.	17.7		
Clay Center, NE [†]		175.5	94.3	5.3	7.2	.	87.0	17.5		
Gothenburg, NE [†]		110.1	98.6	.	14.9	.	.	16.9		
Hoytville, OH		84.2	103.4	0.0	95.4	44.6	79.6	19.3		

[†] Irrigated location.

Table 34. Yield data (bu/a) from eight locations of the 1996 Early White Food Corn Performance Test. New entries for 1996 are shown in italics.

Entry	No.	Gales- burg, IL	Wanatah, IN	Marion, IA	Ogden, IA	St. Joseph, MO	Clay Center, NE [†]	Gothen- burg, NE [†]	Hoyt- ville, OH	Com- bined
AgriGold A6680W	1	110.3	125.1	184.9	132.9	210.2	180.5	102.9	81.0	141.0
<i>AgriGold XA4323W</i>	2	89.9	131.4	113.7	125.4	187.2	152.1	90.8	87.6	122.3
Asgrow XP7555W	3	116.6	123.9	203.6	127.2	204.9	182.5	99.5	89.7	143.5
<i>Beck Ex2251</i>	4	116.0	121.1	214.0	149.5	230.4	201.5	112.9	90.1	154.5
Crow's W54	5	113.8	125.1	135.5	112.9	215.4	198.6	105.7	81.2	136.0
Crow's W55	6	107.0	129.4	171.8	129.4	211.6	165.6	97.9	78.8	136.5
Crow's EX551	7	116.9	125.2	205.3	132.3	214.8	183.3	108.7	84.4	146.3
<i>Crow's EX552</i>	8	106.0	131.4	207.1	147.0	254.4	200.0	119.9	82.4	156.0
DEKALB Genetics DK703W	9	94.0	121.5	222.1	122.3	206.6	167.4	115.6	79.8	141.2
<i>DEKALB Genetics DK631W</i>	10	120.6	116.3	184.2	120.9	165.7	175.9	139.4	92.0	139.4
<i>DEKALB Genetics EXP564W</i>	11	114.9	127.1	167.5	104.1	273.2	169.3	84.2	67.1	138.4
<i>Golden Harvest EX-106W</i>	12	115.1	113.6	201.4	143.2	260.5	173.6	110.2	72.1	148.7
Hoegemeyer 1125W	13	118.0	129.8	186.8	137.7	236.6	177.1	116.4	81.4	148.0
Hoegemeyer 1131W	14	113.5	121.0	114.4	106.3	203.0	163.8	97.3	103.1	127.8
Hoegemeyer 1142W	15	122.6	143.8	154.2	116.1	203.8	166.2	117.9	98.5	140.4
ICI Seeds 8320W	16	112.0	123.7	185.0	134.1	222.4	174.6	96.2	84.9	141.6
<i>ICI Seeds N3527W</i>	17	105.6	124.6	177.2	140.5	170.7	178.6	126.0	85.5	138.6
IFSI 90-1	18	119.5	138.0	211.3	139.4	222.4	195.9	119.1	82.7	153.5
IFSI 93-4	19	124.2	129.1	192.6	131.6	220.8	149.0	97.7	91.5	142.1
IFSI 95-2	20	122.3	122.0	207.6	144.9	238.2	192.6	127.6	80.1	154.4
LG Seeds NB571W	21	97.9	113.8	181.5	111.1	163.4	153.9	113.2	92.6	128.4
LG Seeds NB710W	22	99.8	118.3	147.8	110.4	234.7	179.6	107.9	80.9	134.9
LG Seeds NB739W	23	113.8	130.1	164.8	103.6	164.1	166.3	128.5	90.8	132.7
LG Seeds NB742W	24	113.8	132.1	182.9	118.0	183.2	165.4	94.8	83.9	134.3
LG Seeds NB749W	25	120.5	133.3	207.2	137.8	198.5	153.0	116.6	84.2	143.9
Mycogen 7860W	26	116.4	127.7	194.4	139.4	227.2	175.1	96.3	77.3	144.2
<i>Mycogen X6688W</i>	27	137.0	129.2	202.8	145.2	243.1	180.5	115.1	87.3	155.0
NC+ 5633W	28	104.5	128.2	202.7	139.0	206.6	168.7	104.7	83.0	142.2
NC+ 6555W	29	127.8	136.0	204.2	130.7	211.2	170.4	99.6	66.5	143.3
<i>Northrup King X6545W</i>	30	107.3	120.3	204.6	128.9	233.0	165.6	81.0	74.8	139.4

Table 34. Continued.

Entry	No.	Gales- burg, IL	Wanatah, IN	Marion, IA	Ogden, IA	St. Joseph, MO	Clay Center, NE [†]	Gothen- burg, NE [†]	Hoyt- ville, OH	Com- bined
<i>Northrup King X6955W</i>	31	114.5	128.9	196.7	127.8	222.7	182.6	111.1	78.9	145.4
Pioneer Brand 3287W	32	111.1	135.1	164.9	127.2	185.0	155.6	149.5	86.4	139.4
Pioneer Brand 3392W	33	110.7	128.9	197.6	147.2	174.8	161.5	99.2	86.2	138.3
Pioneer Brand 3443W	34	95.6	105.9	197.5	127.6	209.9	142.0	89.3	76.8	130.6
Pioneer Brand 3463W	35	103.0	105.5	185.2	131.3	180.9	174.2	122.0	77.0	134.9
<i>Pioneer Brand X1155FW</i>	36	125.3	144.1	167.8	159.4	240.1	198.2	138.0	86.9	157.5
<i>SeedTec ST-7545W</i>	37	119.0	124.1	154.7	111.2	254.9	150.1	81.0	76.0	133.9
Sturdy Grow SG730W	38	91.9	117.4	178.4	132.1	213.1	171.7	97.4	88.5	136.3
Sturdy Grow SG765W	39	109.2	120.1	186.3	132.6	197.5	159.7	105.8	92.2	137.9
Sturdy Grow SG777W	40	119.1	130.3	197.8	140.0	218.5	155.4	96.6	86.0	143.0
<i>Sturdy Grow SG781W</i>	41	126.1	127.3	191.5	134.0	219.4	185.0	98.1	85.6	145.9
Sturdy Grow SG797W	42	142.1	118.6	179.9	138.8	217.1	183.1	80.4	74.2	141.8
<i>Trisler T-4113W</i>	43	128.2	128.9	188.6	140.7	227.7	176.8	112.8	82.3	148.3
Trisler T-4211W	44	114.2	129.4	185.4	143.6	271.2	188.6	123.1	89.3	155.6
Vineyard V413W	45	111.4	99.2	154.7	119.7	200.1	160.8	97.0	76.7	127.4
Vineyard V414W	46	111.8	118.6	190.9	128.1	204.9	146.5	92.2	77.2	133.8
Vineyard V424W	47	118.9	136.3	169.8	120.6	251.1	196.1	113.0	85.7	148.9
Vineyard V438W	48	112.9	110.7	161.2	110.8	209.3	173.6	105.5	77.0	132.6
Vineyard V448W	49	128.6	141.2	160.8	123.5	215.3	180.9	106.2	99.9	144.5
Vineyard V449W	50	118.8	139.4	181.5	136.8	200.1	165.1	122.4	84.8	143.6
<i>Whisnand 50W</i>	51	108.8	131.6	211.9	136.2	248.2	190.0	128.9	93.1	156.1
Whisnand 51AW	52	112.8	131.2	208.9	147.5	242.8	199.5	105.8	88.4	154.6
Whisnand 52AW	53	101.2	125.7	129.6	133.6	207.4	168.4	109.1	97.9	134.1
Wilson 1780W	54	141.2	145.4	174.8	127.1	222.2	203.6	149.1	77.3	155.1
Wilson 1790W	55	133.9	140.4	192.5	140.0	222.9	203.5	144.7	75.8	156.7
<i>Wilson E1732</i>	56	126.8	139.0	176.6	140.8	248.8	195.9	131.2	96.7	157.0
<i>Wilson E1789</i>	57	97.5	118.6	181.0	135.3	231.2	180.0	88.6	84.5	139.6
<i>Zimmerman Z73W</i>	58	109.5	119.3	132.6	103.1	201.9	177.9	82.9	75.0	125.3
Yellow check B73 × Mo17	59	125.3	115.5	223.4	121.8	217.4	168.7	127.7	93.3	149.1
Yellow check Pioneer Brand 3394	60	134.1	124.9	196.8	136.5	205.7	205.4	152.5	88.3	155.5
Mean		115.0	126.2	182.5	130.3	216.3	175.5	110.1	84.2	142.5
LSD 0.05		25.9	16.9	32.7	22.3	31.9	31.3	20.6	ns	15.2
CV%		13.8	8.2	11.0	10.5	9.0	10.9	11.4		11.1

† Irrigated location.

Table 35. European corn borer whorl-leaf feeding and stalk tunneling data from Columbia and Novelty, MO, for the 1996 Early White Food Corn Performance Test. New entries for 1996 are shown in italics.

Entry	No.	Columbia			Novelty			Combined		
		Leaf feeding (1-9)	No. of tunnels (no)	Tunnel length (in)	Leaf feeding (1-9)	No. of tunnels (no)	Tunnel length (in)	Leaf feeding (1-9)	No. of tunnels (no)	Tunnel length (in)
AgriGold A6680W	1	4.0	0.7	0.7	3.0	1.2	1.4	3.5	1.0	1.1
<i>AgriGold XA4323W</i>	2	4.0	0.9	1.2	3.0	1.2	1.2	3.5	1.1	1.2
Asgrow XP7555W	3	4.3	0.9	1.0	2.7	0.7	0.7	3.5	0.8	0.8
<i>Beck Ex2251</i>	4	3.7	1.4	1.5	3.0	1.1	1.1	3.3	1.2	1.3
Crow's W54	5	4.3	1.1	1.3	2.0	0.5	0.8	3.2	0.8	1.1
Crow's W55	6	4.3	0.7	0.7	3.3	1.3	1.4	3.8	1.0	1.0
Crow's EX551	7	4.7	0.9	0.9	2.7	1.5	1.7	3.7	1.2	1.3
<i>Crow's EX552</i>	8	4.0	1.7	1.7	2.0	1.1	1.5	3.0	1.4	1.6
DEKALB Genetics DK703W	9	4.3	0.5	0.7	3.3	0.5	0.5	3.8	0.5	0.6
<i>DEKALB Genetics DK631W</i>	10	3.0	0.5	0.5	1.3	0.6	0.7	2.2	0.5	0.6
<i>DEKALB Genetics EXP564W</i>	11	2.3	0.8	1.0	1.7	0.6	0.7	2.0	0.7	0.8
<i>Golden Harvest EX-106W</i>	12	4.3	1.2	1.2	2.7	0.8	1.0	3.5	1.0	1.1
Hoegemeyer 1125W	13	4.0	0.5	0.7	2.3	1.3	1.4	3.2	0.9	1.0
Hoegemeyer 1131W	14	4.0	1.5	1.5	2.3	0.7	0.7	3.2	1.1	1.1
Hoegemeyer 1142W	15	2.7	0.8	0.8	1.0	0.5	0.7	1.8	0.7	0.8
ICI Seeds 8320W	16	4.0	0.9	1.0	3.3	0.7	0.9	3.7	0.8	1.0
<i>ICI Seeds N3527W</i>	17	4.0	0.9	0.9	2.7	0.9	0.9	3.3	0.9	0.9
IFSI 90-1	18	4.0	0.6	0.7	2.7	1.1	1.2	3.3	0.9	0.9
IFSI 93-4	19	4.0	1.1	1.2	3.3	0.7	0.7	3.7	0.9	0.9
IFSI 95-2	20	4.3	1.4	1.6	2.7	0.9	0.9	3.5	1.2	1.3
LG Seeds NB571W	21	3.0	0.6	0.6	2.0	0.7	0.8	2.5	0.7	0.7
LG Seeds NB710W	22	4.0	0.5	0.6	3.0	0.4	0.4	3.5	0.5	0.5
LG Seeds NB739W	23	4.3	0.9	1.0	3.7	1.1	1.1	4.0	1.0	1.1
LG Seeds NB742W	24	4.0	1.8	1.8	3.3	0.4	0.4	3.7	1.1	1.1
LG Seeds NB749W	25	3.7	1.1	1.1	2.0	1.2	1.3	2.8	1.2	1.2
Mycogen 7860W	26	3.3	1.2	1.2	3.0	0.7	0.8	3.2	1.0	1.0
<i>Mycogen X6688W</i>	27	3.3	1.1	1.3	3.0	1.1	1.2	3.2	1.1	1.2
NC+ 5633W	28	4.0	1.3	1.5	3.3	1.1	1.2	3.7	1.2	1.4
NC+ 6555W	29	3.3	0.7	0.7	1.7	0.7	0.8	2.5	0.7	0.8
<i>Northrup King X6545W</i>	30	3.3	1.9	2.0	2.0	1.1	1.1	2.7	1.5	1.6
<i>Northrup King X6955W</i>	31	3.3	1.6	1.6	2.7	1.3	1.7	3.0	1.4	1.7
Pioneer Brand 3287W	32	3.3	0.9	1.0	2.0	0.2	0.2	2.7	0.6	0.6
Pioneer Brand 3392W	33	3.7	1.1	1.2	1.7	0.7	0.9	2.7	0.9	1.1
Pioneer Brand 3443W	34	3.3	1.3	1.5	1.0	0.9	1.1	2.2	1.1	1.3
Pioneer Brand 3463W	35	3.0	0.3	0.3	2.3	0.7	0.7	2.7	0.5	0.5
<i>Pioneer Brand X1155FW</i>	36	4.0	0.4	0.4	2.7	0.6	0.8	3.3	0.5	0.6
<i>SeedTec ST-7545W</i>	37	3.0	0.7	0.7	1.7	0.8	0.9	2.3	0.8	0.8
Sturdy Grow SG730W	38	4.3	1.2	1.3	3.0	1.6	1.9	3.7	1.4	1.6
Sturdy Grow SG765W	39	3.0	1.0	1.1	2.7	1.9	2.3	2.8	1.5	1.7
Sturdy Grow SG777W	40	4.0	1.3	1.5	3.0	0.7	0.7	3.5	1.0	1.1

Table 35. Continued.

Entry	No.	Columbia			Novelty			Combined		
		Leaf feeding (1-9)	No. of tunnels (no)	Tunnel length (in)	Leaf feeding (1-9)	No. of tunnels (no)	Tunnel length (in)	Leaf feeding (1-9)	No. of tunnels (no)	Tunnel length (in)
<i>Sturdy Grow SG781W</i>	41	3.3	1.1	1.1	2.3	0.7	0.8	2.8	0.9	1.0
<i>Sturdy Grow SG797W</i>	42	3.7	0.7	0.7	2.3	1.1	1.4	3.0	0.9	1.0
<i>Trisler T-4113W</i>	43	3.3	1.3	1.5	2.7	0.6	0.7	3.0	0.9	1.1
<i>Trisler T-4211W</i>	44	3.7	1.3	1.4	2.0	0.8	0.9	2.8	1.0	1.1
<i>Vineyard V413W</i>	45	3.7	1.0	1.1	2.7	1.4	1.5	3.2	1.2	1.3
<i>Vineyard V414W</i>	46	3.7	1.3	1.3	2.7	0.7	0.8	3.2	1.0	1.0
<i>Vineyard V424W</i>	47	4.0	1.5	1.6	2.3	1.2	1.3	3.2	1.4	1.4
<i>Vineyard V438W</i>	48	4.0	1.9	1.9	2.0	1.0	1.2	3.0	1.4	1.5
<i>Vineyard V448W</i>	49	4.3	1.1	1.1	1.7	1.0	1.1	3.0	1.0	1.1
<i>Vineyard V449W</i>	50	3.0	0.5	0.5	1.7	0.9	1.1	2.3	0.7	0.8
<i>Whisnand 50W</i>	51	4.0	0.9	0.9	2.0	0.7	0.7	3.0	0.8	0.8
<i>Whisnand 51AW</i>	52	4.0	1.2	1.4	2.3	1.1	1.2	3.2	1.1	1.3
<i>Whisnand 52AW</i>	53	4.0	1.0	1.1	3.3	1.3	1.4	3.7	1.1	1.2
<i>Wilson 1780W</i>	54	4.7	0.6	0.6	3.3	0.7	0.9	4.0	0.7	0.8
<i>Wilson 1790W</i>	55	5.0	0.9	0.9	4.0	0.6	0.8	4.5	0.7	0.9
<i>Wilson E1732</i>	56	3.3	0.4	0.5	2.7	0.5	0.5	3.0	0.5	0.5
<i>Wilson E1789</i>	57	3.7	0.9	0.9	2.0	0.7	0.8	2.8	0.8	0.9
<i>Zimmerman Z73W</i>	58	3.3	0.7	0.7	2.0	0.1	0.1	2.7	0.4	0.4
<i>Yellow check B73 × Mo17</i>	59	4.3	1.5	1.7	2.0	1.4	1.4	3.2	1.5	1.5
<i>Yellow check Pioneer Brand 3394</i>	60	4.7	0.9	0.9	3.3	0.5	0.7	4.0	0.7	0.8
Susceptible check (Ki3)		3.3	1.0	1.0	.	.	.	3.3	1.0	1.0
Susceptible check (Wf9 × W182E)		4.3	1.0	1.0	4.0	1.2	1.7	4.2	1.1	1.4
Resistant check (Pioneer Brand 3184)		3.0	0.7	0.7	2.3	0.1	0.1	2.7	0.4	0.4
Mean		3.8	1.0	1.1	2.5	0.9	1.0	3.1	0.9	1.0
LSD 0.05		1.2	ns	ns	1.3	0.8	ns	0.8	0.6	0.7
CV%		18.6			31.0	54.6		23.6	59.9	61.5

Table 36. Yield and agronomic data from common entries in the 1995-1996 Early White Food Corn Performance Tests.

Entry	Years (no)	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
AgriGold A6680W	2	143.4	99.4	2.3	17.0	50.0	79.9	22.4
Asgrow XP7555W	2	141.9	98.1	5.2	16.9	45.9	78.4	19.4
Crow's EX551	2	139.6	94.7	1.6	19.6	48.1	78.8	19.9
Crow's W54	2	136.4	89.3	0.9	16.9	48.9	79.4	20.6
Crow's W55	2	129.1	93.1	0.7	16.5	49.6	78.8	20.9
DEKALB Genetics DK703W	2	134.2	92.9	4.2	17.2	46.6	79.0	21.3
Hoegemeyer 1125W	2	140.1	96.9	2.2	19.0	48.8	80.3	21.7
Hoegemeyer 1131W	2	130.5	93.1	1.8	16.3	48.2	79.5	21.3
Hoegemeyer 1142W	2	132.0	94.2	3.3	17.3	44.1	79.3	25.4
ICI Seeds 8320W	2	139.5	93.8	2.4	18.8	49.0	80.2	20.4
IFSI 90-1	2	145.3	92.6	1.6	17.1	50.3	79.5	20.2
IFSI 93-4	2	135.6	94.4	2.0	19.4	45.5	78.4	19.6
IFSI 95-2	2	144.9	92.6	1.9	20.0	53.2	78.8	19.7
LG Seeds NB571W	2	125.9	88.3	2.6	18.4	38.0	76.0	18.0
LG Seeds NB710W	2	137.0	89.6	6.4	18.4	45.6	76.5	19.8
LG Seeds NB739W	2	125.1	90.3	1.4	13.8	37.5	77.1	21.9
LG Seeds NB742W	2	131.2	92.6	1.4	17.4	37.8	76.3	21.5
LG Seeds NB749W	2	142.4	95.9	1.3	17.6	48.7	79.5	21.5
NC+ 6555W	2	142.5	96.8	3.1	17.4	49.3	79.6	21.9
Pioneer Brand 3287W	2	133.3	94.2	2.7	13.8	43.6	76.3	20.4
Pioneer Brand 3392W	2	126.2	92.2	1.8	14.6	44.1	78.7	18.2
Pioneer Brand 3443W	2	126.4	99.0	1.0	19.2	44.3	75.3	17.7
Pioneer Brand 3463W	2	131.9	97.1	0.5	13.4	42.4	75.2	17.6
Sturdy Grow SG730W	2	138.6	94.7	2.0	18.9	48.6	78.1	19.6
Sturdy Grow SG765W	2	142.1	96.7	1.5	21.3	47.2	78.4	20.4
Sturdy Grow SG777W	2	141.2	95.1	2.7	17.7	51.5	79.8	20.5
Sturdy Grow SG797W	2	142.5	96.9	1.9	17.7	49.1	80.2	22.1
Trisler T-4211W	2	150.2	95.9	3.2	18.1	52.0	79.1	19.7
Vineyard V413W	2	128.1	95.2	1.1	16.6	46.6	78.7	18.8
Vineyard V414W	2	129.7	96.9	2.5	18.5	43.3	77.8	19.0
Vineyard V424W	2	142.1	95.0	3.3	14.1	47.6	78.2	21.2
Vineyard V438W	2	132.8	97.0	0.9	13.8	43.9	79.0	20.6
Vineyard V448W	2	139.9	95.0	1.8	15.1	45.8	78.8	22.1
Vineyard V449W	2	139.7	95.6	1.7	16.7	44.2	78.9	22.2
Whisnand 51AW	2	144.3	95.7	2.5	19.1	50.0	79.6	20.3
Whisnand 52AW	2	133.0	89.6	2.0	20.9	46.5	78.5	20.0
Wilson 1780W	2	148.8	96.1	1.5	17.5	44.4	79.5	23.7
Wilson 1790W	2	145.2	94.6	2.0	14.0	44.4	79.4	22.8
Yellow check B73 × Mo17	2	145.3	92.3	1.7	17.0	47.2	77.5	20.1
Yellow check Pioneer Brand 3394	2	151.6	94.5	1.1	16.2	42.3	77.9	18.1
Mean		137.7	94.4	2.1	17.2	46.3	78.5	20.5

Table 37. Yield and agronomic data from common entries in the 1994-1996 Early White Food Corn Performance Tests.

Entry	Years (no)	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Hoegemeyer 1125W	3	153.9	96.3	5.3	15.2	50.1	81.3	22.5
Hoegemeyer 1131W	3	147.2	93.4	4.6	13.3	49.7	80.6	21.9
Hoegemeyer 1142W	3	145.1	94.4	4.7	12.7	45.7	80.8	26.2
ICI Seeds 8320W	3	153.2	94.6	6.5	14.4	49.9	81.2	21.2
IFSI 90-1	3	162.0	93.8	5.0	13.7	51.4	80.9	20.9
IFSI 93-4	3	152.4	92.7	3.8	15.1	46.4	79.9	20.9
LG Seeds NB571W	3	138.7	90.4	4.2	16.5	39.9	77.4	18.4
LG Seeds NB710W	3	150.8	90.3	8.2	18.2	46.4	77.6	20.0
LG Seeds NB739W	3	140.8	91.0	4.3	13.3	38.6	78.0	22.0
LG Seeds NB742W	3	145.1	91.8	3.8	15.6	38.6	77.8	22.0
NC+ 6555W	3	158.6	95.8	5.0	13.9	50.8	81.0	22.5
Pioneer Brand 3287W	3	144.4	95.1	6.1	12.4	43.7	77.8	20.9
Pioneer Brand 3443W	3	142.9	98.2	4.9	15.9	46.2	77.0	18.3
Pioneer Brand 3463W	3	143.7	96.7	3.8	11.7	44.0	76.5	18.2
Sturdy Grow SG765W	3	157.3	96.0	3.7	17.1	48.0	79.6	20.7
Sturdy Grow SG777W	3	152.2	92.4	6.2	14.0	51.7	81.0	21.5
Sturdy Grow SG797W	3	159.6	95.9	5.4	13.8	50.2	81.0	22.6
Vineyard V414W	3	141.7	96.5	6.1	14.8	44.6	79.3	19.6
Vineyard V424W	3	156.5	94.9	6.0	11.3	48.5	79.5	22.1
Vineyard V438W	3	145.4	95.8	2.3	11.7	44.6	80.4	21.3
Vineyard V448W	3	155.5	95.3	4.6	12.1	46.8	80.2	22.7
Vineyard V449W	3	152.7	93.2	5.6	13.4	45.5	80.1	22.7
Whisnand 51AW	3	157.3	94.9	5.7	14.5	51.2	80.7	21.0
Wilson 1780W	3	160.8	95.9	4.3	13.9	45.4	80.4	23.6
Wilson 1790W	3	158.3	94.3	4.5	11.5	45.2	80.5	23.1
Yellow check B73×Mo17	3	157.0	92.8	2.9	14.1	48.0	79.3	20.8
Mean		151.3	94.3	4.9	14.0	46.6	79.6	21.4

Table 38. Yield and agronomic data from common entries in the 1993-1996 Early White Food Corn Performance Tests.

Entry	Years (no)	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Hoegemeyer 1125W	4	148.9	96.0	4.6	12.3	51.0	82.0	22.8
Hoegemeyer 1131W	4	139.4	93.2	3.7	11.0	51.1	81.6	22.0
Hoegemeyer 1142W	4	142.5	95.0	4.5	11.1	47.2	81.9	26.6
ICI Seeds 8320W	4	146.9	94.6	5.1	11.9	51.1	82.3	21.5
IFSI 90-1	4	153.7	94.1	4.1	11.1	51.6	81.8	21.2
IFSI 93-4	4	143.5	93.3	3.6	13.0	48.1	80.3	20.7
LG Seeds NB710W	4	147.0	90.5	7.4	15.3	47.5	78.1	20.2
LG Seeds NB739W	4	135.9	91.6	3.8	10.8	39.7	78.2	22.3
LG Seeds NB742W	4	139.9	92.0	3.1	13.1	40.3	78.1	22.4
NC+ 6555W	4	152.0	95.4	4.2	11.4	51.9	82.2	22.7
Pioneer Brand 3287W	4	140.3	93.6	6.7	10.1	45.0	78.1	21.3
Pioneer Brand 3463W	4	137.9	96.1	3.2	9.2	45.0	76.7	18.5
Sturdy Grow SG777W	4	146.1	92.6	4.9	11.7	51.9	81.7	21.6
Sturdy Grow SG797W	4	151.7	95.8	4.6	11.7	50.7	82.1	22.8
Vineyard V424W	4	150.6	95.2	5.1	9.6	49.9	80.9	22.5
Vineyard V438W	4	139.0	95.6	2.7	9.6	46.1	81.1	21.8
Vineyard V449W	4	145.1	93.8	5.0	11.1	45.6	81.3	23.0
Whisnand 51AW	4	149.3	94.4	5.0	11.9	52.4	81.9	21.2
Wilson 1780W	4	155.4	95.9	4.2	11.0	47.0	81.4	24.0
Wilson 1790W	4	154.7	95.3	3.8	9.7	46.4	81.4	23.4
Yellow check B73 × Mo17	4	148.2	93.4	2.4	11.7	48.8	80.8	21.2
Mean		146.1	94.2	4.4	11.3	48.0	80.6	22.1

Table 39. Yield and agronomic data from common entries in the 1992-1996 Early White Food Corn Performance Tests.

Entry	Years (no)	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Hoegemeyer 1125W	5	154.7	95.8	3.7	11.0	50.7	83.5	24.1
Hoegemeyer 1131W	5	147.7	93.7	3.0	9.6	51.4	82.9	23.1
Hoegemeyer 1142W	5	145.1	95.3	3.6	9.9	47.1	83.7	27.8
ICI Seeds 8320W	5	154.5	95.1	4.1	10.2	51.0	83.7	22.8
IFSI 90-1	5	158.6	94.3	3.3	9.5	51.6	83.1	22.4
LG Seeds NB710W	5	153.9	91.4	6.1	13.4	46.5	79.0	21.5
LG Seeds NB742W	5	143.5	92.7	2.6	11.7	39.5	79.1	23.7
NC+ 6555W	5	158.1	95.6	3.5	10.2	51.4	83.7	24.1
Pioneer Brand 3287W	5	145.1	94.4	5.6	8.3	44.7	78.9	22.5
Pioneer Brand 3463W	5	139.7	95.4	2.7	7.4	44.3	77.5	19.7
Sturdy Grow SG777W	5	151.6	93.3	4.0	10.3	51.6	83.1	22.9
Sturdy Grow SG797W	5	158.0	95.9	3.8	10.5	50.4	83.7	24.2
Vineyard V424W	5	154.1	95.2	4.2	8.0	49.1	82.1	23.9
Vineyard V449W	5	150.3	94.4	4.0	9.9	45.4	82.7	24.4
Whisnand 51AW	5	155.6	94.9	4.1	10.1	52.0	83.2	22.5
Yellow check B73×Mo17	5	154.8	94.1	2.1	10.0	48.6	82.3	22.5
Mean		151.6	94.5	3.8	10.0	48.4	82.0	23.3

Table 40. Combined grain quality data from the 1996 Early White Food Corn Performance Test grown at Champaign, IL; Wanatah, IN; Marion, IA; and Knoxville, TN.

Entry	No.	Test weight (lb/bu)	100-kernel weight (g)	Kernel size (cc)	Thins [†] (%)	Kernel density (g/cc)	Horny endosp. (%)
AgriGold A6680W	1	61.5	32.0	0.25	32.4	1.32	81
AgriGold XA4323W	2	59.1	31.9	0.25	27.7	1.30	83
Asgrow XP7555W	3	61.6	30.8	0.23	29.4	1.32	86
Beck Ex2251	4	62.2	31.6	0.24	26.5	1.32	84
Crow's W54	5	62.7	33.6	0.25	17.8	1.33	86
Crow's W55	6	60.8	33.5	0.26	20.3	1.31	83
Crow's EX551	7	52.8	31.2	0.24	32.3	1.30	81
Crow's EX552	8	61.5	32.6	0.25	23.2	1.32	83
DeKalb Genetics DK703W	9	62.6	36.0	0.27	17.3	1.33	86
DeKalb Genetics DK631W	10	61.9	34.9	0.26	8.8	1.32	86
DeKalb Genetics EXP564W	11	61.0	37.9	0.29	11.5	1.33	88
Golden Harvest EX-106W	12	58.6	32.6	0.24	22.5	1.33	83
Hoegemeyer 1125W	13	61.1	32.0	0.24	31.5	1.32	83
Hoegemeyer 1131W	14	61.1	33.7	0.26	21.1	1.32	84
Hoegemeyer 1142W	15	62.4	34.1	0.26	23.1	1.33	89
ICI Seeds 8320W	16	63.0	33.6	0.25	24.2	1.35	86
ICI Seeds N3527W	17	60.4	32.1	0.24	16.4	1.31	85
IFSI 90-1	18	62.8	35.2	0.26	21.0	1.34	85
IFSI 93-4	19	60.4	32.1	0.25	27.5	1.31	83
IFSI 95-2	20	61.1	31.6	0.24	26.3	1.32	83
LG Seeds NB571W	21	58.1	34.8	0.27	6.9	1.28	79
LG Seeds NB710W	22	55.7	31.8	0.25	18.1	1.29	75
LG Seeds NB739W	23	58.8	32.7	0.25	14.6	1.31	84
LG Seeds NB742W	24	59.5	33.7	0.26	12.1	1.31	80
LG Seeds NB749W	25	61.0	32.7	0.25	31.4	1.32	81
Mycogen 7860W	26	62.8	33.5	0.25	24.3	1.34	88
Mycogen X6688W	27	62.0	30.9	0.24	30.5	1.31	83
NC+ 5633W	28	60.4	27.2	0.21	50.4	1.31	79
NC+ 6555W	29	62.0	31.5	0.24	41.6	1.33	85
Northrup King X6545W	30	61.4	30.1	0.23	30.0	1.32	85
Northrup King X6955W	31	60.4	29.0	0.22	39.3	1.32	79
Pioneer Brand 3287W	32	62.5	32.5	0.25	29.9	1.33	85
Pioneer Brand 3392W	33	61.9	33.0	0.25	15.3	1.31	89
Pioneer Brand 3443W	34	61.8	32.2	0.25	17.3	1.32	86
Pioneer Brand 3463W	35	61.0	32.3	0.25	14.8	1.30	85
Pioneer Brand X1155FW	36	61.3	30.4	0.23	35.6	1.33	85
SeedTec ST-7545W	37	60.9	38.1	0.29	3.8	1.32	88
Sturdy Grow SG730W	38	61.4	28.9	0.22	34.0	1.31	83
Sturdy Grow SG765W [‡]	39	60.5	29.2	0.22	30.1	1.31	78
Sturdy Grow SG777W	40	62.0	31.7	0.24	31.2	1.33	84
Sturdy Grow SG781W	41	58.3	29.5	0.23	38.1	1.30	83
Sturdy Grow SG797W	42	60.8	33.5	0.26	28.8	1.32	81
Trisler T-4113W	43	60.3	30.1	0.23	31.9	1.31	84
Trisler T-4211W	44	61.9	31.4	0.24	27.4	1.32	83
Vineyard V413W	45	62.8	32.8	0.24	10.0	1.35	95

Table 40. Continued.

Entry	No.	Test weight (lb/bu)	100-kernel weight (g)	Kernel size (cc)	Thins [†] (%)	Kernel density (g/cc)	Horny endosp. (%)
Vineyard V414W	46	63.7	32.7	0.24	8.2	1.34	95
Vineyard V424W	47	62.0	31.4	0.24	27.2	1.33	86
Vineyard V438W	48	62.0	30.7	0.23	29.3	1.33	88
Vineyard V448W	49	62.1 [‡]	30.2	0.23	33.2	1.34	89
Vineyard V449W	50	63.2	30.1	0.23	21.1	1.34	93
<i>Whisnand 50W</i>	51	61.9	31.7	0.24	26.6	1.33	88
<i>Whisnand 51AW</i>	52	62.4	32.3	0.24	28.7	1.34	88
<i>Whisnand 52AW</i>	53	60.2	32.1	0.25	27.5	1.31	83
<i>Wilson 1780W</i>	54	60.0	29.5	0.22	16.6	1.31	85
<i>Wilson 1790W</i>	55	60.6	28.9	0.22	22.2	1.32	88
<i>Wilson E1732</i>	56	59.2	31.9	0.24	14.5	1.31	83
<i>Wilson E1789</i>	57	59.9	32.1	0.24	11.1	1.32	81
<i>Zimmerman Z73W</i>	58	62.9	33.6	0.25	10.2	1.34	91
Yellow check B73 × Mo17	59	57.2	29.0	0.23	24.5	1.26	75
Yellow check Pioneer Brand 3394	60	60.4	32.2	0.25	23.1	1.29	84
Mean		60.9	32.1	0.24	23.8	1.32	84
LSD 0.05		3.4	3.0	0.02	11.9	0.02	4
CV%		4.0	6.6	6.5	35.2	0.8	3.6

[†] Percent of a 250-kernel sample passing through a 20/64" round-hole sieve.

[‡] Data missing from one location.

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