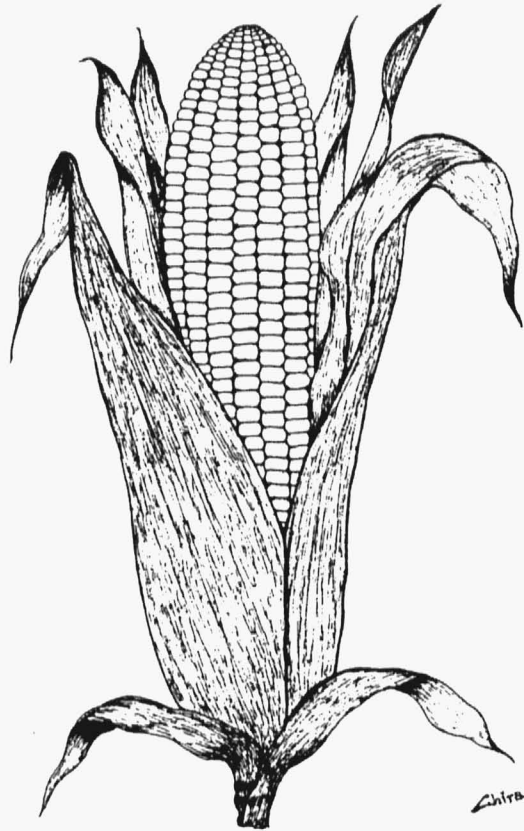


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WHITE FOOD CORN

1994 Performance Test



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INTRODUCTION

The 1994 White Food Corn Performance Test (WFCPT) included 52 white hybrids, one white and three yellow hybrid checks submitted by 21 commercial seed producers (Table 1). Twelve locations were planted in the agronomic evaluation. Data were received from locations in Illinois, Indiana, Kansas, Kentucky, Missouri, Tennessee, and Texas. 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 L. W. Rooney at Texas A & M University and under contract by the Illinois Crop Improvement Association, Inc.

The 1994 Early White Food Corn Performance Test (EWFCPT) included 50 white hybrids and one yellow hybrid check. Entries were submitted by 17 commercial seed producers (Table 1). Ten locations were planted in Illinois, Indiana, Iowa, Nebraska, Tennessee, and Texas. Results from the test planted at North Platte, NE, were not included because five entries were removed from the test before planting since they were known to be too late maturity for the test location and data from the two replications grown showed no significant differences for any variable except stand percentage.

ENTRIES AND SEED SOURCES

Contributors of seed for the 1994 evaluations are listed in Table 1. Those entries that have an EXP as part of the hybrid name, such as Cargill EXP 29003¹, 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. Changes affecting the 1994 tests follow: AgriGold R4004-W (1991) was redesignated AgriGold XA4004W (1992) and subsequently released as AgriGold A6565W. All DeKalb Plant Genetics hybrids have been redesignated as DeKalb Genetics hybrids. Jacques 7860W and 8360W have been renamed Mycogen 7860W and 8360W, respectively. Ohlde EX198W has been released as Ohlde 198W and Ohlde 181W was renamed Ohlde 1219W. Vineyard Vx4532W was released as Vineyard V453W and Vineyard Vx4383W was released as Vineyard V438W. Wilson E11930 and Wilson E11934 have been released as Wilson 1780W and 1790W, respectively.

Seed of the white hybrid check (K55 × CI66)FR802W came from Mr. R. L. Lundquist, Illinois Foundation Seeds, Inc., Champaign, IL. B73 × Mo17 was contributed by Ciba Seeds, Bloomington, IL. The yellow hybrid checks Pioneer Brand 3245 and 3320 were contributed by Dr. C. T. Cunnyngham, 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 WFCPT and EWFCPT from which acceptable data were returned, together with a record of the agronomic practices. Note that tests at Rossville, KS; Clay Center, NE; and College Station and Springlake, TX, were irrigated. Partial irrigation may have been used elsewhere.

Figure 1 graphically depicts on a map 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. Yields were adjusted to the mean stand for a location, if the efficiency of adjustment exceeded 104% (ratio of unadjusted error sum of squares to adjusted error sum of squares).

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. In 1994, tests grown in Kansas and Nebraska suffered from stalk breakage during intense thunderstorms in late June and early July, and this is reflected in the stalk lodging data.

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 120 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 120 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 15 for the entry means combined over all locations for the 1994 WFCPT and in Table 32 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 (Illinois Crop Improvement Association).

100-kernel weight

Weight of 100 whole, cleaned kernels was measured in grams (Illinois Crop Improvement Association).

Kernel size

Kernel size was determined using alcohol displacement and expressed in cc (Illinois Crop Improvement Association).

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 (Illinois Crop Improvement Association).

Density

Density was determined using a helium gas pycnometer and expressed in g/cc (Illinois Crop Improvement Association).

Percentage horny endosperm

The percentage horny endosperm was visually estimated using a candling light. Fifteen kernels per entry per location were evaluated (Illinois Crop Improvement Association).

Pericarp removal

Pericarp removal values relate to alkaline cooking quality where relatively easy removal of the pericarp is highly desirable. Corn pericarps that are easily removed require less time to cook and product quality is improved. The pericarp of all corn kernels can be eventually removed by extensive lime cooking, but the dry matter losses are much higher.

The pericarp removal test was conducted by cooking 10 g of corn in nylon bags in a steam kettle containing 167 g of lime in 50 L of water. Samples were cooked for 20 min at the boiling point. The samples were then washed and stained with eosine and methyl blue solution. The pericarp stains a blue-green color while the endosperm stains a light green color. Each sample was then rated on a scale in which 1 represented complete removal and 5 represented no removal (Texas A & M University).

STATISTICAL ANALYSES AND INTERPRETATIONS

Data from the WFCPT 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 12 locations of the 1994 WFCPT with an appropriate LSD 0.05 for each character are shown in Table 15. Table 32 gives combined results for the 1994 EWFCPT. The combined LSD 0.05 and CV% are based on the entries \times locations interaction versus 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

1994 White Food Corn Performance Test

Yields from individual locations ranged from 92.6 bu/a at Columbia, MO, to 224.0 bu/a at Paris, IL. The overall average for 12 locations was 178.2 bu/a compared to 140.3 bu/a in 1993 and 173.5 bu/a obtained in 1992. The 1994 mean yield is the highest obtained since the WFCPT began in 1977.

Plot stands averaged 92.7%, ranging from 75.8% at College Station, TX, to 100.0% at Henderson, KY. Covariance adjustment of yield for stand was done for yield data from West Lafayette, IN; Rossville, KS; Columbia, MO; Novelty, MO; Knoxville, TN; and College Station and Springlake, TX.

Root lodging was near zero (0.3% average) with the highest amount occurring at Champaign, IL (1.0%). Stalk lodging averaged 1.2% with Rossville, KS, having significantly more than other locations (6.3%). Much of the Rossville stalk lodging was due to stalk breakage in severe thunderstorms in late June and early July. Both root and stalk lodging averages were among the lowest to date in this test.

The number of days to flowering was recorded at six locations. An 18.9-day spread was observed, ranging from 65.5 days at Columbia, MO, to 84.4 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 14 with the combined data in Table 15. Yield data from all 12 locations are given in Table 16.

Combined agronomic data from 12 locations (Table 15)

One white hybrid and one yellow check yielded significantly more than the mean for all entries (178.2 bu/a): Pioneer Brand X1183WB (199.2 bu/a) and the yellow check Pioneer Brand 3245 (190.1 bu/a). Pioneer Brand X1183WB yielded significantly more than any other entry except the yellow check Pioneer Brand 3245.

Nine entries yielded significantly less than the mean of all entries: the white check (K55 × CI66)FR802W (158.5 bu/a), DeKalb Genetics 742W (160.7 bu/a), DeKalb Genetics 739W (162.0 bu/a), Vineyard V449W (162.5 bu/a), Triumph 1910W (163.8 bu/a), Pioneer Brand 3287W (164.0 bu/a), Sturdy Grow SG930W (165.5 bu/a), Hoegemeyer 1142W (166.3 bu/a), and Tennessee EXP 94-1 (166.5 bu/a). The entries × locations interaction was significant, indicating different entry responses in different en-

vironments.

Plot stands were excellent and averaged almost 93%. Only stands for Genetic Resources PR26101 (86.3%), Sturdy Grow SG777W (87.6%), DeKalb Genetics DK703W (87.9%), and DeKalb Genetics EXP368W (88.5%) were significantly lower than the average of all entries.

Root lodging was low, averaging 0.2%, and there were no significant differences between entries in the test. Stalk lodging averaged 1.2% for all entries and differences between entries were not significant.

Eleven hybrids had ear heights significantly below the mean for all entries (43.8 inches): DeKalb Genetics 739W (36.2 inches), DeKalb Genetics 742W (36.3 inches), Golden Harvest H-2633W (39.6 inches), the yellow check Pioneer Brand 3245 (39.7 inches), Pioneer Brand 3287W (41.4 inches), Triumph 1910W (41.9 inches), Vineyard V449W (42.1 inches), Vineyard V453W (43.1 inches), IFSI 90-4 (43.5 inches), Wilson 1780W (43.5 inches), and Golden Harvest H-2651W (43.8 inches). Sixteen hybrids' ear heights were more than one LSD above the mean for all entries. The white check (K55 × CI66)FR802W (53.2 inches) and Zimmerman Z63W (51.0 inches) had ear heights that were two LSDs above the mean for all entries.

Five white hybrids had a significantly lower number of days to flower (earlier) than the 74.1-day mean for all entries: Pioneer Brand 3287W (70.3 days), Golden Harvest H-2633W (72.3 days), Vineyard Vx4483W (72.3 days), Wilson 1790W (72.5 days), DeKalb Genetics 742W (72.5 days), and Cargill EXP 29003 (72.9 days). Relatively later flowering hybrids included the white check (K55 × CI66)FR802W (78.0 days), Zimmerman Z63W (76.7 days), Genetic Resources PR26101 (76.3 days), Genetic Resources PR26113 (76.2 days), Zimmerman Z64W (76.1 days), Tennessee EXP 94-1 (75.7 days), Whisnand 74W (75.4 days), and Zimmerman Z62W (75.3 days). Because the WFCPT is grown primarily in the southern Corn Belt, some earlier maturity hybrids may be somewhat at a yield disadvantage in not using the full growing season.

Differences in grain moisture measured during early-season combine harvesting may be reduced when averaged with moistures after prolonged field or uniform drying. Grain moistures ranged from 18.7% for the yellow check Pioneer Brand 3245 to 24.3% for IFSI 94-3 with an overall average of 21.1%. Twelve white hybrids and the three yellow hybrid checks had grain moistures that were significantly less than the mean for all entries: the yellow check Pioneer Brand 3245 (18.7%), Sturdy Grow EXP 765W (19.2%), the yellow check B73 × Mo17 (19.5%), Pioneer Brand 3287W (19.6%), Ohlde 1219W (19.7%), DeKalb Genetics EXP368W (19.8%), Zimmerman Z62W (19.8%), Cargill EXP 29003 (19.9%), the yellow check Pioneer Brand 3320 (19.9%), Ohlde 198W (19.9%), Pioneer Brand 3281W (19.9%), DeKalb Genetics 739W (20.0%), Sturdy Grow SG777W (20.0%), Cargill 8097W (20.0%), and Whisnand 51AW (20.0%). Only two white hybrids (Cargill EXP 29003 and Pioneer Brand 3287W) 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 15. (A difference of ± 0.06 from 1.00 is necessary for significance. The LSD

should be used when comparing coefficients of two hybrids.) Twenty-two 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. Nineteen white hybrids, the white check (K55×CI66)FR802W, and the yellow check B73×Mo17 had environmental responses that were significantly less than 1.00. Pioneer Brand X1183WB (199.2 bu/a, $b_1 = 1.27$ bu/a/I) had a significantly higher yield than the average entry and a b_1 that was significantly greater than 1.0. Other hybrids that yielded above 185 bu/a and that had a b_1 significantly greater than 1.0 included IFSI 94-3 (187.3 bu/a, $b_1 = 1.06$ bu/a/I), Ohlde 198W (187.0 bu/a, $b_1 = 1.13$ bu/a/I), Sturdy Grow SG797W (187.0 bu/a, $b_1 = 1.08$ bu/a/I), Cargill 8097W (186.9 bu/a, $b_1 = 1.10$ bu/a/I), Whisnand 51AW (186.7 bu/a, $b_1 = 1.07$ bu/a/I), Zimmerman Z62W (186.6 bu/a, $b_1 = 1.18$ bu/a/I), Ohlde 1219W (186.1 bu/a, $b_1 = 1.16$ bu/a/I), Ohlde 197W (186.0 bu/a, $b_1 = 1.19$ bu/a/I), Bo-Jac 523W (185.6 bu/a, $b_1 = 1.13$ bu/a/I), Mycogen 7860W (185.3 bu/a, $b_1 = 1.21$ bu/a/I), and Zimmerman Z64W (185.2 bu/a, $b_1 = 1.29$ bu/a/I). 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 , but no examples were found in this year's test. 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, Pioneer Brand 3287W (164.0 bu/a, $b_1 = 0.85$ bu/a/I) and the white check hybrid (K55×CI66)FR802W (158.5 bu/a, $b_1 = 0.85$ bu/a/I) had standard deviations of 9.9 and 26.0 bu/a, respectively. Pioneer Brand 3287W would be expected to be a more predictable performer in response to varied environments than the white check hybrid (K55×CI66)FR802W.

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 1994 WFCPT (Table 17)

First generation leaf-feeding ratings were obtained at Columbia and Novelty, MO. Significant differences were found among entries. Zimmerman Z62W (2.2 rating), ICI Seeds 8122W (2.7 rating), and Zimmerman Z63W (2.7 rating) were significantly better than the mean of all entries (3.9 rating). Wilson 1780W (5.8 rating), Wilson 1790W (5.8 rating), DeKalb Genetics EXP368W (5.5 rating), DeKalb Genetics DK703W (5.2 rating) and the two susceptible checks for European corn borer, Ki3 (5.5 rating) and Wf9×W182E (5.5 rating), were more susceptible to leaf feeding damage than the average entry.

Significant differences among entries were also found for second generation stalk-feeding data that were obtained at Columbia and Novelty, MO. No entry was significantly better than the mean for either number of tunnels or tunnel length. Two entries had significantly more tunnels and tunnel length than the average entry and had numerically more than either of the two susceptible checks: DeKalb Genetics 742W (3.1 tunnels, 3.5 inches of tunneling) and Genetic Resources PR26113 (2.8 tunnels, 3.0 inches of tunneling).

Two-, three-, four-, and five-year mean yields and agronomic performance (Tables 18 to 21)

Data were summarized for common entries in the last two, three, four, and five years of the WFCPT. 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 has been 12. Approximate values of 7 bu/a for the two-year means, 6 bu/a for the three-year means, 6 bu/a for the four-year means, and 5 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 1990 to 1994 tests (five-year means), Zimmerman Z63W (160.0 bu/a) and the yellow check Pioneer Brand 3320 (157.1 bu/a) could be judged to yield significantly more than the average of other entries (151.4 bu/a). Not distinguishable from Zimmerman Z63W were the yellow check Pioneer Brand 3320 (157.1 bu/a) and DeKalb Genetics DK703W (155.5 bu/a). Relatively poorer performing over this period was the white check hybrid (K55 × CI66)FR802W (134.9 bu/a).

For the four-year means, the yellow check Pioneer Brand 3245 (173.2 bu/a) and Northrup King N7580W (162.8 bu/a) would be judged above average. The yellow check Pioneer Brand 3245 yielded significantly more than any other entry in the four-year means. Among the remaining white hybrids, Northrup King N7580W (162.8 bu/a), Zimmerman Z63W (161.7 bu/a), Sturdy Grow SG798W (160.9 bu/a), Pioneer Brand 3281W (160.6 bu/a), and DeKalb Genetics DK703W (159.1 bu/a) could not be statistically differentiated.

Kernel quality evaluation of entries in the 1994 White Food Corn Performance Test (Table 22)

Milling quality of entries in the 1994 WFCPT was evaluated by the Illinois Crop Improvement Association, Inc. and Texas A & M University. 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 seven quality traits measured. Hybrids exceeding the target value of 37 g/100 kernels were Genetic Resources PR26101 (41.0 g), DeKalb Genetics EXP368W (40.5 g), DeKalb Genetics DK703W (39.9 g), Genetic Resources PR26113 (38.4 g), the white check (K55 × CI66)FR803W (38.4 g), IFSI 94-2 (38.3 g), Pioneer Brand X1183WB (38.2 g), the yellow check Pioneer Brand 3245 (38.1 g), Tennessee EXP 94-1 (38.1 g), and Sturdy Grow SG777W (37.7 g). All hybrids and checks in the test had grain densities greater than or equal to 1.3 g/cc. Only Whisnand 92AW (91%) and the yellow check Pioneer Brand 3245 (90%) met the desired 90% horny endosperm. Five hybrids had 89% horny endosperm, two had 88%, five had 87%, and nine had 86%. It is possible 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 might be acceptable to most processors.

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Yields in the EWFCPT ranged from 121.0 bu/a at Clay Center, NE, to 207.3 bu/a at Galesburg, IL, with an overall average for six northern locations with yield data of 180.0 bu/a, and this was a record high. Stands averaged 94.1% overall, ranging from 81.1% at Ogden, IA, to 99.9% at St. Joseph, MO. Covariance adjustment of yield for stand was done for data from Champaign and Galesburg, IL; Ogden, IA; and Springlake, TX (the latter location was not included in the combined analysis).

Root lodging averaged 10.5% at seven northern locations, ranging from 0.0% at Galesburg, IL, to 46.7% at St. Joseph, MO. Most locations were under 9% and three locations had less than 1%. Stalk lodging ranged from 0.0% at Champaign, IL, and St. Joseph, MO, to 37.8% at Marion, IA, averaging 8.3% for the seven northern locations.

Days to flowering were recorded only at Marion, IA, where the mean was 82.5 days. Harvest grain moistures averaged 22.8%. The Clay Center, NE, location had 16.8% moisture at harvest, while Galesburg, IL, had 27.6% grain moisture at harvest.

Twenty-eight white hybrids and the yellow check B73 × Mo17 were grown in both the WFCPT and EWFCPT. Further testing will determine the appropriate environments for testing 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 30), and Halfway, TX (Table 31), but data were not included in the combined analysis of the northern locations. Individual location data are shown in Tables 23 to 31 with the combined data in Table 32. Yield data from six of the seven northern locations are given in Table 33. A problem with grain hopper closure when harvesting the Marion, IA, location caused unknown losses for 46 plots and no yield data are reported for that test.

Combined agronomic data from seven northern locations (Table 32)

The average yield from six northern locations was 180.0 bu/a compared to 126.5 bu/a in 1993 and 168.5 bu/a in 1992. Only one white hybrid yielded significantly more than the mean of all entries: Cargill 8097W (197.3 bu/a). Twenty-five white hybrids could not be statistically differentiated (yielded 180.4 bu/a or more) from Cargill 8097W. Included among entries that yielded significantly less than the average of all entries were DeKalb Genetics 555W (160.0 bu/a) and DeKalb Genetics 563W (160.5 bu/a).

Differences among hybrids for stand percentage were relatively small. No entry was significantly better than the mean of all entries as that required an average stand of 100%. Sturdy Grow SG777W (87.2%), DeKalb Genetics 563W (87.6%), Vineyard V449W (88.6%), DeKalb Genetics EXP368W (88.7%), IFSI 93-4 (89.4%), and NobleBear NB742W (90.3%) had significantly lower stand percentages than the mean for all entries, but these levels for stand were not of concern.

Differences among entries for root and stalk lodging were not significant even though there was an overall average of 10.5% for root lodging and 8.3% for stalk lodging. Only one location for each of these traits had significant amounts of lodging.

Ear heights ranged from 38.8 inches for DeKalb Genetics 739W to 54.5 inches for Ohlde 198W and

Sturdy Grow SG745W. Nine white hybrids were more than one LSD below the average of all entries: DeKalb Genetics 739W (38.8 inches), NobleBear NB742W (40.2 inches), DeKalb Genetics 742W (40.3 inches), NobleBear NB739W (40.9 inches), DeKalb Genetics 555W (42.2 inches), Sturdy Grow EXP 731W (43.1 inches), DeKalb Genetics 563W (43.3 inches), NobleBear NB571W (43.8 inches), and Pioneer Brand 3287W (44.0 inches). Six white hybrids were significantly taller than the average entry: Sturdy Grow SG745W (54.5 inches), Ohlde 198W (54.5 inches), NC+ 6555W (53.8 inches), IFSI 90-1 (53.7 inches), Whisnand 51AW (53.6 inches), NC+ RE672W (53.5 inches), and Triumph 1429W (53.5 inches).

The number of days to flowering was recorded only at Marion, IA. 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 Pioneer Brand 3463W (79.3 days, 19.5%), NobleBear NB710W (80.0 days, 20.3%), Pioneer Brand X1083WA (80.3 days, 19.5%), and NobleBear NB571W (80.3 days, 19.3%). Six white hybrids had moistures significantly exceeding the mean of 22.8% at harvest: Hoegemeyer 1142W (27.7%), Whisnand 92AW (26.9%), Whisnand 74W (25.8%), Asgrow X8983W (24.8%), NC+ RE672W (24.3%), and Hoegemeyer 1125W (24.3%).

The environmental response coefficients (b_1) and standard deviations of fit for the EWFCPT are shown in the last two columns of Table 32. (A difference of ± 0.16 from 1.00 is necessary for significance. The LSD should be used when comparing coefficients of two hybrids.) Twelve 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, NobleBear NB710W (178.4 bu/a, $b_1 = 1.93$ bu/a/I), DeKalb Plant Genetics 563W (160.5 bu/a, $b_1 = 1.72$ bu/a/I), and NobleBear NB571W (164.4 bu/a, $b_1 = 1.54$ bu/a/I) all had b_1 s greater than 1.5 with mean yields less than average, especially the latter two hybrids. These hybrids would be very responsive in good environments, but likely not yield as much as a hybrid with a mean yield above 190 bu/a and a $b_1 = 1.15$ to 1.25 (Sturdy Grow SG745W [194.0 bu/a, $b_1 = 1.17$ bu/a/I] or Pioneer Brand X1183WB [193.0 bu/a, $b_1 = 1.16$]), depending on just how good the environment was.

Fourteen white hybrids 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 that are less responsive to improved environments: Sturdy Grow EXP 765W (187.9 bu/a, $b_1 = 0.76$ bu/a/I), NC+ RE672W (184.7 bu/a, $b_1 = 0.65$ bu/a/I), and Wilson 1790W (184.5 bu/a, $b_1 = 0.67$ bu/a/I). Response of such hybrids would be desirable where adverse conditions were frequently encountered.

The standard deviations of fit varied for similar environmental response coefficients. For example, AgriGold A6565W (189.7 bu/a, $b_1 = 0.98$ bu/a/I) and Sturdy Grow EXP 731W (179.6 bu/a, $b_1 = 0.98$ bu/a/I) had standard deviations of 3.8 and 10.0 bu/a, respectively. AgriGold A6565W would be expected to be a more predictable performer in response to varied environments than Sturdy Grow EXP 731W.

European corn borer susceptibility data for the 1994 EWFCPT (Table 34)

First generation leaf-feeding ratings were obtained at Columbia and Novelty, MO. Significant differences were found among entries. Three entries were significantly better than the mean of all entries (3.9 rating): Zimmerman Z62W (2.2 rating), Vineyard V449W (2.5 rating), and Pioneer Brand X1083WA (2.7 rating). Wilson 1780W (6.2 rating), DeKalb Genetics EXP368W (5.3 rating), and Wilson 1790W (5.3 rating) and the susceptible checks Ki3 (5.5 rating) and Wf9 × W182E (5.5 rating) were more susceptible to leaf feeding damage than the average entry.

Second generation stalk-feeding data were also obtained at Columbia and Novelty, MO. No entry was significantly better than the mean for tunnel number or tunnel length. Whisnand 92AW (0.9 tunnels, 1.0 inches of tunneling) was nearly the same as the resistant European corn borer check hybrid Pioneer Brand 3184 (0.8 tunnels, 1.0 inches of tunneling). Several other hybrids with less than 1.7 tunnels and less than 2.1 inches of tunneling also fall into the resistant category. Two hybrids had significantly more tunnels and tunnel length as compared to the average entry: NC+ RE672W (3.1 tunnels, 3.4 inches of tunneling) and Pioneer Brand X1183WB (2.6 tunnels, 3.2 inches of tunneling).

Two-, three-, four-, and five-year mean yields and agronomic performance (Tables 35 to 38)

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 six (for yield) in 1993 and 1994. Although an LSD cannot be directly calculated, approximate values of 11 bu/a for the two-year means, 9 bu/a for the three-year means, 7.5 bu/a for the four-year means, and 6 bu/a for the five-year means can be used to compare yields of individual entries.

For the five-year means, NobleBear NB710W (163.3 bu/a) and IFSI 90-1 (163.1 bu/a) would be judged higher yielding than the average entry. Pioneer Brand 3463W (143.0 bu/a) was lower yielding than any other entry. Results from calculating four-year means showed that Cargill 8097W (164.6 bu/a), NC+ 6555W (163.8 bu/a), and IFSI 90-1 (163.3 bu/a) yielded more than the mean for all entries. NobleBear NB710W (161.3 bu/a), Whisnand 51AW (159.0 bu/a), and Vineyard V424W (157.9 bu/a) of the highest yielders were not statistically differentiable from the top yielder. Relatively lower yielding than other entries was Pioneer Brand 3463W (142.9 bu/a).

Kernel quality evaluation of entries in the 1994 Early White Food Corn Performance Test (Table 39)

Milling quality of entries in the 1994 EWFCPT was evaluated by the Illinois Crop Improvement Association, Inc. and Texas A & M University. 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. Meeting all of these criteria were two white hybrids: Vineyard Vx4143W (37.6 g/100 kernels, 1.35 g/cc, 95% horny endosperm) and Hoegemeyer 1142W (37.9 g/100 kernels, 1.35 g/cc, 90% horny endosperm). Twenty white hybrids had kernel weights at or above 37 g. All entries had kernel densities exceeding 1.29 g/cc. Three hybrids had 90% or more horny endosperm: two are mentioned as meeting all three

quality characteristics listed, and the third is Vineyard V442W (92% horny endosperm). As for the WFCPT, it is possible 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 might be acceptable to most processors. Eleven additional hybrids had horny endosperm percentages between 85 and 88%, which would probably be judged acceptable.

Table 1. Sources of commercial white endosperm food corn hybrids entered in the 1994 White Food Corn Performance Test and the 1994 Early White Food Corn Performance Test.

Brand	Firm [†]	Address/telephone/FAX
AgriGold	Akin Seed Company	RR 1, Box 203, St. Francisville, IL 62460-9989 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
Bo-Jac	Bo-Jac Seed Company	RR 2, Box 11, Mt. Pulaski, IL 62548
Cargill	Cargill Hybrid Seeds	P. O. Box 5645, Minneapolis, MN 55440 Tel. 612/742-6716 FAX 612/742-7235
DeKalb Genetics	DeKalb Genetics	3100 Sycamore Road, DeKalb, IL 60115 Tel. 815/758-9323 FAX 815/758-3711
Genetic Resources	Genetic Resources, Inc.	P. O. Box 229, 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 402/779-3317
Hoegemeyer	Hoegemeyer Hybrids	Route 2, Box 126, Hooper, NE 68031 Tel. 402/654-3399 FAX 402/654-3342
ICI Seeds	ICI Seeds	615 Main Street, P. O. Box 300 Coon Rapids, IA 50058 Tel. 712/684-2211
IFSI	Illinois Foundation Seeds	P. O. Box 722, Champaign, IL 61824-0722 Tel. 271/485-6420 FAX 217/485-5223
Mycogen	Mycogen Plant Sciences	624 27 th Street, Lubbock, TX 79404 Tel. 806/744-1408 FAX 806/765-0392
NC+	NC+ Hybrids	RR 2, Box 190, Hastings, NE 68901 Tel. 402/463-5661 FAX 402/463-6549
NobleBear	NobleBear Seed Co.	P.O. Box 950, Decatur, IL 62525 Tel. 217/422-5621 FAX 217/422-2194
Northrup King	Northrup King Company	P. O. Box 710, St. Joseph, IL 61873 Tel. 217/468-2734 FAX 217/468-2430
Ohlde	Ohlde Seed Farms	RR Box 63, Palmer, KS 66962 Tel. 913/692-4555 FAX 913/692-4528
Pioneer Brand	Pioneer Hi-Bred International	4445 Corporate Drive, Suite 200 West Des Moines, IA 50265 Tel. 515/224-6900 FAX 515/226-2939
Sturdy Grow	Sturdy Grow Hybrids, Inc.	P. O. Box 194, Arcola, IL 61910 Tel. 217/268-3838 FAX 217/268-3628

Table 1. Continued.

Brand	Firm [†]	Address/telephone/FAX
Tennessee	University of Tennessee	Department of Soil and Plant Science University of Tennessee, Knoxville, TN 37901 Tel. 615/974-8826 Fax 615/974-7997
Triumph	Triumph Seed Company, Inc.	Hwy. 62 Bypass, Ralls, TX 79257
Vineyard	Vineyard Seed Company, Inc.	Box 139, Sidney, IL 61877 Tel. 217/688-2361
Whisnand	Whisnand Hybrids	RR 1, Box 48, Arcola, IL 61910 Tel. 217/268-3714
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				
White Food Corn Performance Test									
Champaign, IL	193.6	Soybeans	187	50	255	10MAY94	Atrazine, bentazon, metolachlor	----- [†]	24,890
Paris, IL	224.0	Soybeans	175	163	363	22APR94	Atrazine, cyanazine	-----	24,890
Winchester, IL	210.4	Soybeans	120	0	0	27APR94	Atrazine, metolachlor	-----	24,890
West Lafayette, IN	199.8	Soybeans	205	0	0	22APR94	Alachlor, atrazine, cyanazine	-----	24,800
Rossille, KS‡	154.3	Soybeans	188	44	0	19APR94	Atrazine, metolachlor	-----	24,600
Henderson, KY	177.3	Soybeans	200	92	100	14APR94	2-4-d, atrazine, dimethenamid, paraquat	Permethrin	25,000
Lexington, KY	141.5	Corn	150	0	100	10MAY94	Alachlor, atrazine, butylate	Terbufos	23,760
Columbia, MO	92.6	Soybeans	160	70	60	13MAY94	Alachlor, atrazine	-----	18,150
Novelty, MO	159.4	Soybeans	160	50	100	16MAY94	Atrazine, metolachlor	-----	21,780
Knoxville, TN	212.4	Soybeans	133	49	26	21APR94	Alachlor, simazine	Carbofuran	23,232
College Station, TX‡	191.6	Corn	105	73	37	25FEB94	Atrazine, metolachlor	Terbufos	24,022
Springlake, TX‡	181.1	Cotton	273	68	23	20APR94	Arazine, trifluralin	Esfenvalerate	26,000

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									
Champaign, IL	200.6	Soybeans	187	50	255	10MAY94	Atrazine, bentazon, metolachlor	-----	24,890
Galesburg, IL	207.3	Soybeans	162	150	308	23APR94	Atrazine, bentazon, eptam	-----	24,890
Wanatah, IN	167.2	Soybeans	160	38	100	5MAY94	Atrazine, cyanazine, metolachlor	-----	24,800
Ogden, IA	182.4	Soybeans	115	60	80	22APR94	Atrazine, bentazon, metolachlor	-----	28,000
Marion, IA	-----	Corn	198	23	48	27APR94	Acetochlor, bromoxynil	Chlorpyrifos	25,000
St. Joseph, MO	201.3	Flooded soybeans	177	76	60	24APR94	Atrazine, cyanazine metolachlor	Tefluthrin	24,393
Clay Center, NE	121.0	Soybeans	150	0	0	9MAY94	Alachlor, atrazine	-----	27,500
Knoxville, TN	200.3	Soybeans	133	49	26	21APR94	Alachlor, simazine	Carbofuran	23,232
Springlake, TX [‡]	184.9	Cotton	273	68	23	20APR94	Atrazine, trifluralin	Esfenvalerate	26,000

[†] Dashes indicate none used or data missing.

[‡] Irrigated location.



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

Table 3. Yield and agronomic data from the 1994 White Food Corn Performance Test at Champaign, IL. New entries for 1994 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>AgriGold XA3302W</i>	1	194.4	97.8	0.0	0.0	52.7	.	24.0
<i>Asgrow RX943W</i>	2	202.5	92.2	1.2	0.0	53.7	.	23.9
<i>Asgrow X8983W</i>	3	194.1	97.8	1.1	0.0	50.0	.	24.0
<i>Bo-Jac 523W</i>	4	208.9	100.0	1.1	0.0	52.0	.	22.9
<i>Cargill 8097W</i>	5	216.5	98.9	0.0	0.0	52.3	.	22.7
<i>Cargill EXP 29003</i>	6	203.4	97.8	0.0	0.0	52.0	.	22.0
<i>Cargill EXP 29459</i>	7	187.3	100.0	0.0	0.0	51.3	.	23.2
<i>DeKalb Genetics DK703W</i>	8	200.4	97.8	0.0	0.0	48.3	.	22.7
<i>DeKalb Genetics 739W</i>	9	182.0	98.9	0.0	0.0	40.7	.	22.0
<i>DeKalb Genetics 742W</i>	10	184.4	100.0	0.0	0.0	36.0	.	22.3
<i>DeKalb Genetics EXP368W</i>	11	202.0	96.1	1.9	0.0	54.3	.	22.1
<i>Genetic Resources PR26101</i>	12	174.5	98.9	0.0	0.0	49.7	.	25.3
<i>Genetic Resources PR26113</i>	13	184.0	97.8	2.9	0.0	51.7	.	27.2
<i>Golden Harvest H-2633W</i>	14	198.5	94.4	0.0	0.0	46.0	.	24.0
<i>Golden Harvest H-2651W</i>	15	202.5	98.3	0.0	0.0	44.3	.	25.1
<i>Hoegemeyer 1125W</i>	16	215.9	98.3	1.7	0.0	54.0	.	24.1
<i>Hoegemeyer 1131W</i>	17	204.0	97.2	0.0	0.0	53.3	.	22.9
<i>Hoegemeyer 1142W</i>	18	161.5	100.0	0.0	0.0	51.3	.	27.0
<i>ICI Seeds 8122W</i>	19	197.8	100.0	0.0	0.0	50.0	.	25.9
<i>ICI Seeds 8320W</i>	20	194.7	98.9	0.0	0.0	52.0	.	22.7
<i>IFSI 90-4</i>	21	194.8	100.0	0.0	0.0	44.7	.	25.1
<i>IFSI 94-2</i>	22	195.1	100.0	0.0	0.0	48.3	.	26.4
<i>IFSI 94-3</i>	23	197.3	97.8	0.0	0.0	46.3	.	28.7
<i>Mycogen 7860W</i>	24	209.6	98.9	1.1	0.0	56.3	.	22.4
<i>Mycogen 8360W</i>	25	173.0	100.0	1.1	0.0	52.0	.	26.5
<i>Northrup King N7580W</i>	26	187.5	96.1	0.0	0.0	50.3	.	24.3
<i>Ohlde 197W</i>	27	212.1	98.9	1.1	0.0	51.7	.	23.5
<i>Ohlde 198W</i>	28	203.9	93.9	0.0	0.0	54.7	.	22.4
<i>Ohlde 1219W</i>	29	199.5	100.0	0.0	0.0	49.3	.	21.7
<i>Pioneer Brand 3281W</i>	30	168.0	96.7	1.2	0.0	47.0	.	20.6
<i>Pioneer Brand 3287W</i>	31	194.9	98.3	2.9	0.0	44.0	.	22.1
<i>Pioneer Brand X1183WB</i>	32	224.2	100.0	0.0	0.0	50.7	.	23.1
<i>Sturdy Grow SG777W</i>	33	183.8	95.6	1.1	0.0	53.0	.	23.0
<i>Sturdy Grow SG797W</i>	34	213.0	98.9	0.0	0.0	54.7	.	23.3
<i>Sturdy Grow SG798W</i>	35	197.7	95.6	0.0	0.0	52.0	.	23.6
<i>Sturdy Grow SG930W</i>	36	176.5	97.8	0.0	0.0	45.3	.	27.8
<i>Sturdy Grow EXP 765W</i>	37	210.7	96.7	0.0	0.0	46.3	.	20.4
<i>Tennessee EXP 94-1</i>	38	172.7	98.3	2.8	0.0	54.7	.	26.5
<i>Triumph 1910W</i>	39	178.3	98.9	0.0	0.0	43.0	.	26.9
<i>Vineyard V58W</i>	40	186.4	98.3	0.0	0.0	50.0	.	24.4
<i>Vineyard V453W</i>	41	198.3	95.6	0.0	0.0	51.0	.	23.5
<i>Vineyard V449W</i>	42	180.5	96.7	0.0	0.0	50.3	.	22.4
<i>Vineyard Vx4483W</i>	43	191.0	99.4	1.1	0.0	48.3	.	22.3
<i>Whisnand 51AW</i>	44	215.8	99.4	0.0	0.0	52.0	.	23.0
<i>Whisnand 74W</i>	45	181.2	97.8	0.0	0.0	51.7	.	25.0

Table 3. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 92AW	46	175.5	100.0	0.0	0.0	52.0	.	27.3
<i>Wilson 1780W</i>	47	199.5	98.9	0.0	0.0	49.0	.	23.6
<i>Wilson 1790W</i>	48	206.8	100.0	0.0	0.0	46.3	.	22.3
Zimmerman Z16W	49	175.2	99.4	5.0	0.0	48.3	.	26.4
<i>Zimmerman Z62W</i>	50	202.4	99.4	0.0	0.0	45.3	.	23.4
Zimmerman Z63W	51	203.8	98.9	8.0	0.0	54.3	.	27.7
Zimmerman Z64W	52	217.2	99.4	1.1	0.0	53.3	.	25.7
White check (K55 × CI66)FR802W	53	108.7	98.9	16.2	0.0	56.3	.	27.4
Yellow check Pioneer Brand 3245	54	217.4	98.3	0.0	0.0	43.3	.	20.6
Yellow check Pioneer Brand 3320	55	197.0	99.4	5.6	0.0	46.3	.	22.0
Yellow check B73 × Mo17	56	184.5	96.1	0.0	0.0	48.3	.	22.1
Mean		193.6	98.2	1.0	0.0	49.8	.	24.0
LSD 0.05		25.4	ns	5.0	ns	6.1		1.0
<i>CV%</i>		8.0		276.3		7.5		2.5

Table 4. Yield and agronomic data from the 1994 White Food Corn Performance Test at Paris, IL.
New entries for 1994 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>AgriGold XA3302W</i>	1	232.5	100.0	0.0	0.6	56.3	.	23.8
Asgrow RX943W	2	232.2	100.0	0.0	0.6	52.0	.	24.1
<i>Asgrow X8983W</i>	3	220.3	99.4	0.0	0.6	52.0	.	24.4
Bo-Jac 523W	4	247.1	100.0	0.0	1.7	55.3	.	22.8
Cargill 8097W	5	235.0	100.0	0.0	0.6	59.0	.	23.6
<i>Cargill EXP 29003</i>	6	242.7	100.0	0.0	0.0	61.3	.	22.3
<i>Cargill EXP 29459</i>	7	220.5	100.0	0.0	1.1	58.7	.	23.6
DeKalb Genetics DK703W	8	216.5	98.3	0.0	1.1	56.0	.	23.6
DeKalb Genetics 739W	9	193.7	100.0	1.7	0.6	51.3	.	23.4
DeKalb Genetics 742W	10	208.9	100.0	1.1	0.0	49.3	.	22.7
DeKalb Genetics EXP368W	11	226.6	100.0	2.2	0.0	60.0	.	22.4
<i>Genetic Resources PR26101</i>	12	181.7	88.3	0.0	0.0	58.0	.	25.0
<i>Genetic Resources PR26113</i>	13	208.2	100.0	1.1	0.6	54.7	.	25.8
<i>Golden Harvest H-2633W</i>	14	215.4	100.0	0.0	2.2	52.3	.	25.0
<i>Golden Harvest H-2651W</i>	15	222.9	100.0	0.0	0.6	53.3	.	25.3
Hoegemeyer 1125W	16	237.3	88.3	0.0	2.3	53.3	.	24.2
Hoegemeyer 1131W	17	228.5	98.9	1.7	1.1	56.7	.	23.2
Hoegemeyer 1142W	18	203.4	98.3	0.0	0.6	52.0	.	27.0
ICI Seeds 8122W	19	232.4	100.0	0.0	0.6	49.3	.	24.7
ICI Seeds 8320W	20	220.1	100.0	1.1	2.8	55.3	.	23.0
IFSI 90-4	21	219.9	100.0	0.0	1.1	50.3	.	24.9
<i>IFSI 94-2</i>	22	220.3	97.8	0.0	0.6	54.7	.	26.8
<i>IFSI 94-3</i>	23	231.9	100.0	1.1	1.7	51.3	.	27.6
Mycogen 7860W	24	242.5	100.0	1.1	5.6	57.3	.	23.2
Mycogen 8360W	25	212.3	100.0	0.0	1.1	55.0	.	25.4
Northrup King N7580W	26	233.2	100.0	0.0	1.7	56.3	.	24.3
<i>Ohlde 197W</i>	27	251.6	100.0	0.0	0.6	61.0	.	24.1
Ohlde 198W	28	242.6	100.0	1.1	0.6	61.7	.	23.2
Ohlde 1219W	29	248.6	100.0	0.0	0.6	50.7	.	22.2
Pioneer Brand 3281W	30	231.6	100.0	0.0	0.0	49.7	.	22.5
Pioneer Brand 3287W	31	201.3	100.0	0.0	0.6	47.3	.	21.5
<i>Pioneer Brand X1183WB</i>	32	258.2	100.0	0.0	0.0	55.3	.	24.1
Sturdy Grow SG777W	33	215.4	92.2	0.0	0.6	54.0	.	23.4
Sturdy Grow SG797W	34	237.4	100.0	1.1	1.7	56.3	.	24.0
Sturdy Grow SG798W	35	231.6	100.0	0.0	1.1	55.7	.	23.7
Sturdy Grow SG930W	36	210.2	98.9	0.0	0.0	54.7	.	27.0
Sturdy Grow EXP 765W	37	229.8	100.0	0.6	2.2	52.7	.	21.2
<i>Tennessee EXP 94-1</i>	38	218.7	100.0	0.0	2.2	58.3	.	25.2
Triumph 1910W	39	205.3	100.0	0.0	0.0	51.3	.	26.7
Vineyard V58W	40	245.6	100.0	0.0	0.6	55.3	.	24.9
Vineyard V453W	41	202.8	97.8	0.0	2.9	49.7	.	22.5
Vineyard V449W	42	211.4	100.0	1.1	1.1	52.3	.	22.6
<i>Vineyard Vx4483W</i>	43	216.3	100.0	1.7	0.0	53.3	.	23.6
Whisnand 51AW	44	234.5	97.2	0.0	1.1	52.7	.	22.4
Whisnand 74W	45	219.7	100.0	0.0	0.0	56.7	.	24.3

Table 4. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 92AW	46	218.7	100.0	0.0	0.6	48.3	.	26.3
<i>Wilson 1780W</i>	47	222.4	98.9	0.0	0.6	50.0	.	24.1
<i>Wilson 1790W</i>	48	219.3	100.0	0.0	0.0	51.7	.	24.2
Zimmerman Z16W	49	211.6	100.0	0.0	2.8	49.3	.	26.5
<i>Zimmerman Z62W</i>	50	231.9	98.3	2.3	0.6	56.7	.	22.9
Zimmerman Z63W	51	222.0	100.0	0.0	1.1	56.7	.	27.6
Zimmerman Z64W	52	247.0	99.4	1.1	0.0	57.7	.	24.6
White check (K55 × CI66)FR802W	53	188.0	100.0	0.0	10.6	61.0	.	27.7
Yellow check Pioneer Brand 3245	54	225.6	99.4	0.0	0.0	41.0	.	21.4
Yellow check Pioneer Brand 3320	55	226.1	100.0	0.0	1.7	50.3	.	22.3
Yellow check B73 × Mo17	56	233.5	100.0	0.0	0.6	49.7	.	23.3
Mean		224.0	99.1	0.4	1.1	54.0	.	24.1
LSD 0.05		24.2	5.4	ns	2.5	8.9		1.5
CV%		6.6	3.4		136.7	10.1		3.7

Table 5. Yield and agronomic data from the 1994 White Food Corn Performance Test at Winchester, IL. New entries for 1994 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>AgriGold XA3302W</i>	1	215.3	100.0	0.0	0.6	54.3	.	26.0
<i>Asgrow RX943W</i>	2	213.8	100.0	0.0	0.0	54.0	.	27.9
<i>Asgrow X8983W</i>	3	223.6	100.0	0.0	0.0	54.3	.	27.3
<i>Bo-Jac 523W</i>	4	226.6	100.0	0.0	0.0	53.7	.	25.7
<i>Cargill 8097W</i>	5	213.6	100.0	0.6	0.0	55.3	.	25.2
<i>Cargill EXP 29003</i>	6	217.5	100.0	0.0	0.0	54.7	.	24.6
<i>Cargill EXP 29459</i>	7	206.5	100.0	0.0	0.0	58.0	.	26.1
<i>DeKalb Genetics DK703W</i>	8	220.9	96.7	0.0	0.0	53.3	.	26.6
<i>DeKalb Genetics 739W</i>	9	184.5	99.4	0.0	0.0	40.3	.	26.5
<i>DeKalb Genetics 742W</i>	10	178.5	99.4	0.0	0.0	39.3	.	25.6
<i>DeKalb Genetics EXP368W</i>	11	207.8	100.0	0.0	0.0	54.7	.	25.6
<i>Genetic Resources PR26101</i>	12	194.5	95.0	0.0	0.6	53.7	.	29.4
<i>Genetic Resources PR26113</i>	13	198.2	92.8	0.6	0.6	50.3	.	29.2
<i>Golden Harvest H-2633W</i>	14	202.5	100.0	0.0	0.0	43.7	.	29.0
<i>Golden Harvest H-2651W</i>	15	218.9	100.0	0.0	0.0	49.0	.	27.5
<i>Hoegemeyer 1125W</i>	16	200.1	100.0	0.0	0.0	53.7	.	26.3
<i>Hoegemeyer 1131W</i>	17	217.3	100.0	0.0	0.0	55.3	.	26.9
<i>Hoegemeyer 1142W</i>	18	189.2	100.0	0.0	0.6	53.7	.	30.1
<i>ICI Seeds 8122W</i>	19	216.9	98.3	0.0	0.0	53.0	.	27.4
<i>ICI Seeds 8320W</i>	20	226.0	100.0	0.0	0.0	54.7	.	25.7
<i>IFSI 90-4</i>	21	210.9	100.0	0.0	0.0	45.3	.	28.3
<i>IFSI 94-2</i>	22	228.5	100.0	0.0	0.0	54.7	.	30.6
<i>IFSI 94-3</i>	23	223.8	100.0	0.0	0.0	52.0	.	29.8
<i>Mycogen 7860W</i>	24	240.1	100.0	0.6	0.0	60.0	.	25.6
<i>Mycogen 8360W</i>	25	200.2	100.0	0.0	0.0	53.7	.	30.3
<i>Northrup King N7580W</i>	26	220.6	100.0	0.0	0.0	53.3	.	26.4
<i>Ohlde 197W</i>	27	220.2	100.0	0.0	0.6	56.0	.	26.0
<i>Ohlde 198W</i>	28	244.0	100.0	0.0	0.6	54.7	.	25.3
<i>Ohlde 1219W</i>	29	227.1	100.0	0.0	0.0	54.7	.	25.5
<i>Pioneer Brand 3281W</i>	30	188.5	98.3	0.0	0.0	53.0	.	26.3
<i>Pioneer Brand 3287W</i>	31	199.6	100.0	0.6	0.0	50.0	.	23.9
<i>Pioneer Brand X1183WB</i>	32	246.1	97.2	0.0	0.6	50.7	.	26.1
<i>Sturdy Grow SG777W</i>	33	194.3	95.0	0.7	0.0	54.7	.	26.1
<i>Sturdy Grow SG797W</i>	34	208.1	100.0	0.0	0.0	55.3	.	26.5
<i>Sturdy Grow SG798W</i>	35	214.7	100.0	0.0	0.0	56.7	.	25.1
<i>Sturdy Grow SG930W</i>	36	181.3	100.0	0.0	0.0	54.3	.	30.6
<i>Sturdy Grow EXP 765W</i>	37	222.4	100.0	0.0	0.0	55.3	.	23.7
<i>Tennessee EXP 94-1</i>	38	182.0	100.0	0.0	0.0	52.3	.	30.8
<i>Triumph 1910W</i>	39	185.2	100.0	0.0	0.0	45.7	.	29.6
<i>Vineyard V58W</i>	40	218.7	98.9	0.0	0.0	61.7	.	27.2
<i>Vineyard V453W</i>	41	204.6	96.1	0.0	0.0	52.7	.	28.0
<i>Vineyard V449W</i>	42	186.6	99.4	0.0	0.6	47.0	.	28.8
<i>Vineyard Vx4483W</i>	43	212.2	100.0	0.0	0.0	54.7	.	27.4
<i>Whisnand 51AW</i>	44	218.7	100.0	0.6	0.0	53.7	.	25.5
<i>Whisnand 74W</i>	45	208.9	100.0	0.0	0.0	54.0	.	27.5

Table 5. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 92AW	46	188.0	100.0	0.0	0.0	55.7	.	29.4
<i>Wilson 1780W</i>	47	194.2	99.4	0.0	0.0	46.0	.	28.8
<i>Wilson 1790W</i>	48	213.4	98.9	0.0	0.0	49.3	.	26.0
Zimmerman Z16W	49	215.1	100.0	0.0	0.0	47.3	.	29.3
<i>Zimmerman Z62W</i>	50	216.6	100.0	0.0	0.0	56.7	.	26.4
Zimmerman Z63W	51	214.2	100.0	0.0	0.0	60.3	.	30.3
Zimmerman Z64W	52	230.7	100.0	0.0	0.0	56.0	.	31.1
White check (K55 × CI66)FR802W	53	195.7	100.0	0.0	0.0	64.0	.	30.8
Yellow check Pioneer Brand 3245	54	225.2	98.9	0.0	0.0	48.7	.	22.3
Yellow check Pioneer Brand 3320	55	221.5	100.0	0.0	0.0	54.7	.	26.0
Yellow check B73 × Mo17	56	206.9	100.0	0.0	0.0	51.0	.	26.7
Mean		210.4	99.4	0.1	0.1	52.9	.	27.3
LSD 0.05		21.6	3.4	ns	ns	3.4		2.0
CV%		6.3	2.1			7.4		4.6

Table 6. Yield and agronomic data from the 1994 White Food Corn Performance Test at West Lafayette, IN. New entries for 1994 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>AgriGold XA3302W</i>	1	196.0	91.9	0.0	1.5	50.0	.	19.8
Asgrow RX943W	2	202.8	82.0	1.8	5.4	51.9	.	20.4
<i>Asgrow X8983W</i>	3	200.3	87.8	0.5	0.5	44.5	.	20.3
Bo-Jac 523W	4	202.3	90.1	1.0	1.0	50.2	.	18.4
Cargill 8097W	5	195.7	95.0	2.0	0.5	51.9	.	18.2
<i>Cargill EXP 29003</i>	6	220.0	85.1	0.6	1.5	50.6	.	18.3
<i>Cargill EXP 29459</i>	7	201.5	85.1	0.0	1.6	50.7	.	20.6
DeKalb Genetics DK703W	8	204.1	81.5	0.0	1.7	48.1	.	19.3
DeKalb Genetics 739W	9	181.1	93.2	0.0	1.0	34.8	.	19.5
DeKalb Genetics 742W	10	170.3	88.7	0.0	1.0	33.8	.	20.0
DeKalb Genetics EXP368W	11	226.1	78.4	0.6	1.1	51.2	.	18.2
<i>Genetic Resources PR26101</i>	12	199.1	76.1	0.0	1.8	48.7	.	22.7
<i>Genetic Resources PR26113</i>	13	184.1	83.3	2.2	0.5	50.0	.	24.7
<i>Golden Harvest H-2633W</i>	14	179.9	91.4	0.0	1.5	40.2	.	21.7
<i>Golden Harvest H-2651W</i>	15	200.9	91.0	0.5	1.0	45.5	.	21.8
Hoegemeyer 1125W	16	230.1	87.8	0.5	1.5	51.2	.	20.3
Hoegemeyer 1131W	17	209.2	90.5	0.5	0.6	49.9	.	19.5
Hoegemeyer 1142W	18	181.9	85.1	0.5	1.0	44.8	.	22.9
ICI Seeds 8122W	19	195.8	90.5	0.0	4.5	45.5	.	22.0
ICI Seeds 8320W	20	209.9	91.9	2.0	0.0	51.7	.	18.7
IFSI 90-4	21	192.1	89.6	0.0	0.5	46.7	.	22.2
<i>IFSI 94-2</i>	22	200.5	81.5	0.0	1.7	45.0	.	22.3
<i>IFSI 94-3</i>	23	216.0	86.0	0.0	4.7	46.5	.	24.4
Mycogen 7860W	24	230.6	92.8	0.9	1.0	50.3	.	18.8
Mycogen 8360W	25	184.7	90.1	0.5	3.1	44.7	.	22.9
Northrup King N7580W	26	200.3	93.2	1.0	1.5	49.5	.	20.2
<i>Ohlde 197W</i>	27	213.3	91.4	3.0	3.5	50.6	.	19.8
Ohlde 198W	28	219.2	88.7	1.1	1.6	47.7	.	18.8
Ohlde 1219W	29	233.7	93.2	0.5	0.0	43.7	.	18.1
Pioneer Brand 3281W	30	195.8	90.5	1.5	1.0	45.6	.	18.5
Pioneer Brand 3287W	31	185.8	89.6	3.0	0.5	42.4	.	18.8
<i>Pioneer Brand X1183WB</i>	32	244.6	89.2	0.5	1.5	47.1	.	19.4
Sturdy Grow SG777W	33	185.2	76.1	0.6	2.3	48.1	.	19.5
Sturdy Grow SG797W	34	206.6	89.6	0.5	1.5	51.0	.	19.7
Sturdy Grow SG798W	35	199.3	92.3	1.0	1.0	50.0	.	20.1
Sturdy Grow SG930W	36	182.1	89.2	0.0	2.4	46.0	.	23.6
Sturdy Grow EXP 765W	37	211.3	90.1	0.5	0.0	48.1	.	17.9
<i>Tennessee EXP 94-1</i>	38	173.9	85.1	0.5	7.6	47.7	.	22.8
Triumph 1910W	39	184.9	85.6	1.1	1.6	45.0	.	23.1
Vineyard V58W	40	214.4	92.8	0.0	1.0	51.0	.	20.2
Vineyard V453W	41	177.5	88.3	0.0	1.0	43.0	.	19.9
Vineyard V449W	42	193.4	88.7	0.5	0.0	43.4	.	19.8
<i>Vineyard Vx4483W</i>	43	209.6	89.2	1.0	2.0	46.0	.	19.5
Whisnand 51AW	44	232.8	85.1	0.0	0.5	53.9	.	19.4
Whisnand 74W	45	197.8	91.9	0.0	0.5	48.7	.	20.9

Table 6. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 92AW	46	173.0	86.5	0.5	0.0	47.6	.	23.3
<i>Wilson 1780W</i>	47	188.3	91.9	0.0	0.0	45.2	.	21.7
<i>Wilson 1790W</i>	48	199.2	89.2	0.0	1.0	45.8	.	19.8
Zimmerman Z16W	49	183.6	91.0	0.0	1.5	47.7	.	22.4
<i>Zimmerman Z62W</i>	50	211.8	86.5	0.0	0.6	48.7	.	19.2
Zimmerman Z63W	51	196.1	85.1	1.6	4.8	50.8	.	22.9
Zimmerman Z64W	52	193.3	88.3	1.0	6.2	48.1	.	20.6
White check (K55 × CI66)FR802W	53	174.4	84.7	1.1	8.1	55.8	.	23.0
Yellow check Pioneer Brand 3245	54	216.2	87.8	0.5	1.6	39.4	.	17.9
Yellow check Pioneer Brand 3320	55	193.8	88.7	0.0	3.0	43.4	.	19.4
Yellow check B73 × Mo17	56	183.2	84.2	1.5	1.1	48.4	.	18.5
Mean		199.8	88.1	0.7	1.8	47.3	.	20.5
LSD 0.05		20.2	6.6	ns	4.1	4.8		1.2
CV%		6.2	4.6		143.8	6.3		3.5

Table 7. Yield and agronomic data from the 1994 White Food Corn Performance Test at Rossville, KS. New entries for 1994 are shown in italics. Rossville was an irrigated location.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged [†] (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>AgriGold XA3302W</i>	1	176.2	89.4	.	3.6	47.3	76.0	22.7
<i>Asgrow RX943W</i>	2	162.6	88.4	.	6.2	53.0	76.0	24.6
<i>Asgrow X8983W</i>	3	150.5	90.7	.	5.6	39.7	75.7	24.3
<i>Bo-Jac 523W</i>	4	137.4	94.0	.	5.9	41.0	75.7	22.7
<i>Cargill 8097W</i>	5	171.2	82.4	.	3.7	46.7	76.0	20.6
<i>Cargill EXP 29003</i>	6	138.6	87.0	.	25.0	43.7	75.7	22.4
<i>Cargill EXP 29459</i>	7	168.9	92.1	.	3.7	45.3	75.7	22.7
<i>DeKalb Genetics DK703W</i>	8	155.1	81.9	.	3.5	42.7	76.7	21.9
<i>DeKalb Genetics 739W</i>	9	169.0	91.7	.	5.6	30.3	76.0	20.0
<i>DeKalb Genetics 742W</i>	10	162.9	93.5	.	2.0	37.7	75.0	21.6
<i>DeKalb Genetics EXP368W</i>	11	156.0	76.9	.	16.5	43.7	76.3	21.5
<i>Genetic Resources PR26101</i>	12	143.6	89.8	.	6.0	45.3	78.7	26.8
<i>Genetic Resources PR26113</i>	13	150.6	87.0	.	4.9	48.7	77.0	25.5
<i>Golden Harvest H-2633W</i>	14	174.5	84.7	.	2.7	38.0	75.0	25.2
<i>Golden Harvest H-2651W</i>	15	158.5	93.5	.	3.5	38.3	75.3	27.6
<i>Hoegemeyer 1125W</i>	16	167.8	85.6	.	7.6	44.0	75.7	22.6
<i>Hoegemeyer 1131W</i>	17	147.8	86.6	.	6.0	45.0	76.7	21.8
<i>Hoegemeyer 1142W</i>	18	149.1	87.5	.	7.8	45.3	76.0	30.5
<i>ICI Seeds 8122W</i>	19	156.8	88.9	.	3.1	46.7	76.0	26.5
<i>ICI Seeds 8320W</i>	20	162.4	96.8	.	4.7	52.0	76.0	20.8
<i>IFSI 90-4</i>	21	157.3	95.8	.	2.9	41.7	76.0	27.7
<i>IFSI 94-2</i>	22	146.8	87.5	.	6.3	41.7	76.0	28.6
<i>IFSI 94-3</i>	23	183.1	91.7	.	2.8	43.0	75.7	30.2
<i>Mycogen 7860W</i>	24	141.5	94.0	.	4.0	46.7	75.7	23.6
<i>Mycogen 8360W</i>	25	142.8	89.4	.	11.5	45.0	76.0	27.4
<i>Northrup King N7580W</i>	26	163.0	94.9	.	4.5	47.0	75.7	25.1
<i>Ohlde 197W</i>	27	167.5	90.3	.	7.9	42.0	75.7	23.3
<i>Ohlde 198W</i>	28	150.7	94.9	.	5.4	49.7	75.7	22.7
<i>Ohlde 1219W</i>	29	149.4	83.8	.	6.6	51.0	76.0	21.7
<i>Pioneer Brand 3281W</i>	30	147.6	88.9	.	3.2	43.3	76.0	23.1
<i>Pioneer Brand 3287W</i>	31	155.6	87.0	.	4.5	40.0	71.0	20.3
<i>Pioneer Brand X1183WB</i>	32	168.0	81.0	.	6.9	40.3	75.7	22.5
<i>Sturdy Grow SG777W</i>	33	127.1	89.4	.	6.2	37.7	76.0	19.8
<i>Sturdy Grow SG797W</i>	34	151.9	96.8	.	3.9	43.3	76.0	24.7
<i>Sturdy Grow SG798W</i>	35	156.9	84.7	.	3.4	45.0	76.0	21.7
<i>Sturdy Grow SG930W</i>	36	166.5	90.3	.	4.7	49.0	76.0	30.2
<i>Sturdy Grow EXP 765W</i>	37	142.9	86.6	.	12.6	39.0	76.0	21.7
<i>Tennessee EXP 94-1</i>	38	179.3	91.7	.	2.0	45.3	77.3	26.1
<i>Triumph 1910W</i>	39	142.1	90.7	.	5.1	41.3	76.3	29.5
<i>Vineyard V58W</i>	40	153.1	87.5	.	7.1	43.0	75.3	25.5
<i>Vineyard V453W</i>	41	144.2	92.1	.	4.7	33.7	76.0	20.7
<i>Vineyard V449W</i>	42	144.3	90.7	.	7.4	37.0	76.3	22.3
<i>Vineyard Vx4483W</i>	43	148.9	95.8	.	8.8	35.7	75.7	21.0
<i>Whisnand 51AW</i>	44	144.3	91.2	.	6.7	46.0	75.7	23.2
<i>Whisnand 74W</i>	45	168.5	92.6	.	2.1	48.0	76.7	25.7

Table 7. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged [†] (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 92AW	46	161.2	93.5	.	1.5	44.3	76.0	29.5
<i>Wilson 1780W</i>	47	168.8	87.0	.	3.8	44.3	79.0	23.7
<i>Wilson 1790W</i>	48	166.6	82.4	.	14.8	41.7	76.0	22.1
Zimmerman Z16W	49	121.4	94.0	.	3.4	43.7	76.7	26.1
<i>Zimmerman Z62W</i>	50	131.8	94.4	.	6.7	47.3	76.0	20.4
Zimmerman Z63W	51	166.2	88.0	.	8.5	51.3	76.7	26.2
Zimmerman Z64W	52	114.6	86.6	.	17.8	43.0	77.3	25.5
White check (K55 × CI66)FR802W	53	128.7	96.3	.	5.7	54.3	79.0	29.2
Yellow check Pioneer Brand 3245	54	152.1	94.0	.	13.7	40.0	75.0	22.0
Yellow check Pioneer Brand 3320	55	158.6	92.6	.	4.4	43.0	76.3	20.4
Yellow check B73 × Mo17	56	170.4	92.1	.	2.5	47.0	75.3	20.8
Mean		154.3	89.8	.	2.5	47.0	75.3	20.8
LSD 0.05		27.4	8.9		7.7	8.5	1.8	2.4
CV%		10.9	6.0		75.2	11.9	1.5	6.1

[†] Stalk lodging includes stalk breakage occurring in a 1JUL94 storm prior to flowering.

Table 8. Yield and agronomic data from the 1994 White Food Corn Performance Test at Henderson, KY. New entries for 1994 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>AgriGold XA3302W</i>	1	190.3	100.0	.	0.6	.	.	14.8
<i>Asgrow RX943W</i>	2	182.4	100.0	.	1.9	.	.	14.8
<i>Asgrow X8983W</i>	3	167.2	100.0	.	3.1	.	.	14.8
<i>Bo-Jac 523W</i>	4	184.3	100.0	.	0.6	.	.	13.4
<i>Cargill 8097W</i>	5	180.9	100.0	.	3.1	.	.	13.4
<i>Cargill EXP 29003</i>	6	184.4	100.0	.	3.1	.	.	13.3
<i>Cargill EXP 29459</i>	7	173.9	100.0	.	1.9	.	.	13.3
<i>DeKalb Genetics DK703W</i>	8	166.8	100.0	.	2.5	.	.	12.9
<i>DeKalb Genetics 739W</i>	9	161.4	100.0	.	0.0	.	.	13.8
<i>DeKalb Genetics 742W</i>	10	162.4	100.0	.	0.6	.	.	12.9
<i>DeKalb Genetics EXP368W</i>	11	163.4	100.0	.	0.6	.	.	11.7
<i>Genetic Resources PR26101</i>	12	178.9	100.0	.	0.0	.	.	15.3
<i>Genetic Resources PR26113</i>	13	179.3	100.0	.	1.2	.	.	16.3
<i>Golden Harvest H-2633W</i>	14	170.9	100.0	.	1.2	.	.	14.6
<i>Golden Harvest H-2651W</i>	15	180.2	100.0	.	0.6	.	.	14.6
<i>Hoegemeyer 1125W</i>	16	182.1	100.0	.	1.2	.	.	14.2
<i>Hoegemeyer 1131W</i>	17	180.0	100.0	.	0.0	.	.	14.5
<i>Hoegemeyer 1142W</i>	18	172.5	100.0	.	1.2	.	.	16.1
<i>ICI Seeds 8122W</i>	19	166.3	100.0	.	3.7	.	.	15.5
<i>ICI Seeds 8320W</i>	20	178.9	100.0	.	1.2	.	.	15.4
<i>IFSI 90-4</i>	21	169.1	100.0	.	0.0	.	.	15.0
<i>IFSI 94-2</i>	22	188.5	100.0	.	0.0	.	.	16.8
<i>IFSI 94-3</i>	23	180.7	100.0	.	1.9	.	.	18.2
<i>Mycogen 7860W</i>	24	176.6	100.0	.	1.9	.	.	13.8
<i>Mycogen 8360W</i>	25	159.9	100.0	.	2.5	.	.	17.6
<i>Northrup King N7580W</i>	26	175.5	100.0	.	0.0	.	.	13.9
<i>Ohlde 197W</i>	27	167.8	100.0	.	0.0	.	.	13.9
<i>Ohlde 198W</i>	28	187.9	100.0	.	1.2	.	.	13.4
<i>Ohlde 1219W</i>	29	177.7	100.0	.	1.2	.	.	13.8
<i>Pioneer Brand 3281W</i>	30	179.6	100.0	.	0.0	.	.	13.1
<i>Pioneer Brand 3287W</i>	31	155.7	100.0	.	0.0	.	.	13.6
<i>Pioneer Brand X1183WB</i>	32	204.9	100.0	.	1.2	.	.	13.4
<i>Sturdy Grow SG777W</i>	33	176.4	100.0	.	0.6	.	.	13.5
<i>Sturdy Grow SG797W</i>	34	195.3	100.0	.	0.6	.	.	13.4
<i>Sturdy Grow SG798W</i>	35	181.2	100.0	.	0.6	.	.	14.9
<i>Sturdy Grow SG930W</i>	36	171.1	100.0	.	0.6	.	.	17.2
<i>Sturdy Grow EXP 765W</i>	37	183.3	100.0	.	1.9	.	.	12.5
<i>Tennessee EXP 94-1</i>	38	167.5	100.0	.	1.2	.	.	16.0
<i>Triumph 1910W</i>	39	141.9	100.0	.	2.5	.	.	19.6
<i>Vineyard V58W</i>	40	187.6	100.0	.	0.6	.	.	12.9
<i>Vineyard V453W</i>	41	172.1	100.0	.	0.0	.	.	12.9
<i>Vineyard V449W</i>	42	169.5	100.0	.	0.6	.	.	13.8
<i>Vineyard Vx4483W</i>	43	167.8	100.0	.	2.5	.	.	13.2
<i>Whisnand 51AW</i>	44	190.0	100.0	.	1.2	.	.	14.1
<i>Whisnand 74W</i>	45	162.4	100.0	.	0.6	.	.	15.0

Table 8. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 92AW	46	162.7	100.0	.	0.6	.	.	16.8
<i>Wilson 1780W</i>	47	166.0	100.0	.	1.9	.	.	16.1
<i>Wilson 1790W</i>	48	176.0	100.0	.	1.2	.	.	16.4
Zimmerman Z16W	49	174.1	100.0	.	0.6	.	.	17.4
<i>Zimmerman Z62W</i>	50	208.5	100.0	.	0.6	.	.	13.6
Zimmerman Z63W	51	179.1	100.0	.	1.2	.	.	16.4
Zimmerman Z64W	52	204.1	100.0	.	1.2	.	.	16.4
White check (K55 × CI66)FR802W	53	181.2	100.0	.	0.0	.	.	17.9
Yellow check Pioneer Brand 3245	54	179.4	100.0	.	0.6	.	.	11.4
Yellow check Pioneer Brand 3320	55	196.6	100.0	.	0.6	.	.	12.8
Yellow check B73 × Mo17	56	204.5	100.0	.	0.6	.	.	12.2
Mean		177.3	100.0	.	1.1	.	.	14.6
LSD 0.05		21.6	ns		ns			2.1
CV%		7.5						8.9

Table 9. Yield and agronomic data from the 1994 White Food Corn Performance Test at Lexington, KY. New entries for 1994 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>AgriGold XA3302W</i>	1	142.8	100.0	.	0.0	35.4	74.0	20.5
Asgrow RX943W	2	146.7	100.0	.	0.9	36.3	74.0	22.9
<i>Asgrow X8983W</i>	3	132.7	100.0	.	0.9	30.3	76.0	25.2
Bo-Jac 523W	4	143.3	100.0	.	0.0	35.1	73.0	20.0
Cargill 8097W	5	155.2	100.0	.	1.4	36.5	73.0	21.7
<i>Cargill EXP 29003</i>	6	155.1	100.0	.	1.4	33.4	71.7	19.1
<i>Cargill EXP 29459</i>	7	140.6	100.0	.	0.9	37.2	72.0	20.5
DeKalb Genetics DK703W	8	142.5	96.8	.	2.0	36.0	72.7	21.8
DeKalb Genetics 739W	9	141.1	100.0	.	0.0	23.9	74.3	19.7
DeKalb Genetics 742W	10	128.3	100.0	.	0.5	25.9	71.7	22.3
DeKalb Genetics EXP368W	11	159.5	100.0	.	1.4	36.7	71.7	19.5
<i>Genetic Resources PR26101</i>	12	124.9	87.0	.	1.0	33.5	76.3	27.7
<i>Genetic Resources PR26113</i>	13	137.0	100.0	.	1.4	33.9	76.7	26.6
<i>Golden Harvest H-2633W</i>	14	130.2	100.0	.	0.0	27.2	74.0	24.7
<i>Golden Harvest H-2651W</i>	15	137.4	88.9	.	0.0	32.8	72.3	22.4
Hoegemeyer 1125W	16	144.9	100.0	.	0.5	35.4	74.0	22.9
Hoegemeyer 1131W	17	132.5	100.0	.	0.5	32.2	75.7	21.4
Hoegemeyer 1142W	18	142.1	100.0	.	0.5	31.8	74.0	25.4
ICI Seeds 8122W	19	155.4	100.0	.	0.9	34.4	71.7	23.3
ICI Seeds 8320W	20	145.2	100.0	.	0.5	37.7	72.7	22.0
IFSI 90-4	21	154.5	100.0	.	0.0	31.8	71.7	23.8
<i>IFSI 94-2</i>	22	138.4	100.0	.	0.0	28.2	75.0	24.6
<i>IFSI 94-3</i>	23	139.0	100.0	.	0.0	29.0	75.0	28.4
Mycogen 7860W	24	132.3	100.0	.	0.0	33.3	75.0	21.2
Mycogen 8360W	25	125.2	100.0	.	0.0	32.0	74.0	24.3
Northrup King N7580W	26	149.9	100.0	.	0.5	36.4	73.0	21.2
<i>Ohlde 197W</i>	27	147.6	100.0	.	1.4	35.2	74.0	19.9
Ohlde 198W	28	144.7	100.0	.	0.0	33.5	75.0	19.8
Ohlde 1219W	29	147.9	94.4	.	0.5	36.8	74.7	19.3
Pioneer Brand 3281W	30	136.3	100.0	.	0.0	24.7	75.7	21.7
Pioneer Brand 3287W	31	119.7	100.0	.	0.5	27.7	69.7	20.3
<i>Pioneer Brand X1183WB</i>	32	154.0	100.0	.	1.4	35.0	74.3	18.9
Sturdy Grow SG777W	33	144.8	100.0	.	0.9	35.1	71.7	19.5
Sturdy Grow SG797W	34	140.7	97.2	.	0.0	36.3	74.0	22.4
Sturdy Grow SG798W	35	135.4	97.2	.	0.9	32.8	74.7	22.2
Sturdy Grow SG930W	36	138.5	100.0	.	0.0	32.4	74.0	25.8
Sturdy Grow EXP 765W	37	148.1	100.0	.	0.5	32.1	74.0	20.8
<i>Tennessee EXP 94-1</i>	38	138.6	94.0	.	0.0	36.9	76.0	25.7
Triumph 1910W	39	137.5	100.0	.	0.0	27.0	74.0	24.0
Vineyard V58W	40	152.3	100.0	.	0.5	33.7	75.7	23.9
Vineyard V453W	41	143.1	100.0	.	0.0	28.9	73.0	20.8
Vineyard V449W	42	129.9	96.8	.	0.0	27.8	73.0	22.3
<i>Vineyard Vx4483W</i>	43	142.6	100.0	.	0.5	36.8	71.0	19.3
Whisnand 51AW	44	147.4	100.0	.	0.0	36.0	73.0	19.8
Whisnand 74W	45	135.4	100.0	.	0.0	31.2	76.0	25.2

Table 9. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 92AW	46	131.3	100.0	.	0.0	29.4	75.0	25.4
<i>Wilson 1780W</i>	47	154.9	100.0	.	0.5	32.0	71.7	20.0
<i>Wilson 1790W</i>	48	156.3	100.0	.	0.5	31.7	69.7	18.1
Zimmerman Z16W	49	128.6	100.0	.	2.3	33.3	75.0	29.1
<i>Zimmerman Z62W</i>	50	149.9	100.0	.	1.4	33.3	76.3	21.2
Zimmerman Z63W	51	140.1	100.0	.	0.5	36.9	76.7	31.0
Zimmerman Z64W	52	145.7	100.0	.	0.0	35.5	76.7	24.3
White check (K55 × CI66)FR802W	53	108.4	100.0	.	0.5	38.9	77.3	27.2
Yellow check Pioneer Brand 3245	54	154.3	100.0	.	0.0	26.8	74.0	18.8
Yellow check Pioneer Brand 3320	55	153.8	100.0	.	0.5	34.3	73.3	21.5
Yellow check B73 × Mo17	56	138.0	100.0	.	1.4	34.2	71.7	17.9
Mean		141.5	99.1	.	0.5	32.9	73.9	22.5
LSD 0.05		ns	ns		ns	5.5	3.1	4.0
CV%						10.2	2.6	11.0

Table 10. Yield and agronomic data from the 1994 White Food Corn Performance Test at Columbia, MO. New entries for 1994 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>AgriGold XA3302W</i>	1	83.2	82.5	0.0	0.0	43.8	64.7	23.3
Asgrow RX943W	2	86.3	70.8	0.0	1.0	44.5	68.3	22.6
<i>Asgrow X8983W</i>	3	83.0	102.5	0.0	0.0	39.3	65.3	24.8
Bo-Jac 523W	4	101.5	85.8	0.0	0.0	44.6	64.3	23.1
Cargill 8097W	5	81.0	100.0	0.0	0.0	44.1	65.0	21.9
<i>Cargill EXP 29003</i>	6	89.0	98.3	0.0	0.9	42.3	65.7	24.6
<i>Cargill EXP 29459</i>	7	87.2	81.7	0.0	1.0	43.4	66.3	23.2
DeKalb Genetics DK703W	8	86.0	75.8	0.0	0.0	42.7	64.7	24.0
DeKalb Genetics 739W	9	74.2	85.0	0.0	0.0	30.9	63.3	22.5
DeKalb Genetics 742W	10	91.5	90.0	0.0	0.0	30.2	63.0	22.3
DeKalb Genetics EXP368W	11	94.4	80.0	0.0	0.0	46.0	64.3	22.6
<i>Genetic Resources PR26101</i>	12	102.7	66.7	0.0	0.0	42.4	67.7	21.3
<i>Genetic Resources PR26113</i>	13	115.2	87.5	0.0	0.0	43.0	67.3	21.8
<i>Golden Harvest H-2633W</i>	14	93.7	93.3	0.0	0.0	32.6	62.3	20.7
<i>Golden Harvest H-2651W</i>	15	114.4	99.2	0.0	0.0	37.5	65.0	19.5
Hoegemeyer 1125W	16	102.3	92.5	0.0	0.0	41.2	67.3	24.4
Hoegemeyer 1131W	17	100.8	90.8	0.0	0.9	43.6	65.0	23.3
Hoegemeyer 1142W	18	74.9	89.2	0.0	0.0	38.9	64.7	24.0
ICI Seeds 8122W	19	109.1	87.5	0.0	0.0	41.0	65.0	19.3
ICI Seeds 8320W	20	95.0	94.2	0.0	0.9	43.2	65.3	22.6
IFSI 90-4	21	91.9	100.0	0.0	0.0	39.3	64.0	23.3
<i>IFSI 94-2</i>	22	103.4	102.5	0.0	0.8	36.5	66.0	21.1
<i>IFSI 94-3</i>	23	97.2	94.2	0.0	0.0	36.3	66.0	22.5
Mycogen 7860W	24	97.8	71.7	0.0	2.2	45.4	64.7	23.9
Mycogen 8360W	25	106.2	94.2	0.0	1.8	37.9	64.7	21.9
Northrup King N7580W	26	88.3	88.3	0.0	0.0	42.4	66.0	24.1
<i>Ohlde 197W</i>	27	85.4	89.2	0.0	0.0	42.7	65.7	23.4
Ohlde 198W	28	95.2	97.5	0.0	0.8	44.7	65.3	21.8
Ohlde 1219W	29	91.2	98.3	0.0	0.9	44.2	65.3	23.2
Pioneer Brand 3281W	30	88.0	96.7	0.0	0.0	36.3	65.3	22.0
Pioneer Brand 3287W	31	96.7	90.8	0.0	0.0	37.8	62.7	21.6
<i>Pioneer Brand X1183WB</i>	32	94.7	94.2	0.0	0.8	39.5	66.0	22.0
Sturdy Grow SG777W	33	95.6	72.5	0.0	1.3	42.5	65.0	23.7
Sturdy Grow SG797W	34	95.7	83.3	0.0	0.0	44.8	65.0	23.8
Sturdy Grow SG798W	35	94.2	89.2	0.0	0.0	45.0	65.3	23.9
Sturdy Grow SG930W	36	79.1	93.3	0.0	0.8	36.5	65.7	21.1
Sturdy Grow EXP 765W	37	96.1	98.3	0.0	1.7	43.7	64.0	21.8
<i>Tennessee EXP 94-1</i>	38	77.0	100.0	0.0	3.3	41.4	68.3	24.3
Triumph 1910W	39	101.6	88.3	0.0	0.9	37.9	65.7	19.9
Vineyard V58W	40	75.8	100.0	0.0	0.0	44.3	65.0	23.5
Vineyard V453W	41	98.8	101.7	0.0	0.0	38.4	64.0	24.3
Vineyard V449W	42	92.4	66.7	0.0	0.0	37.3	65.3	25.3
<i>Vineyard Vx4483W</i>	43	104.1	93.3	0.0	1.8	41.7	63.7	23.5
Whisnand 51AW	44	98.2	86.7	0.0	0.0	41.7	64.7	22.5
Whisnand 74W	45	84.0	89.2	0.0	1.7	41.7	66.7	24.8

Table 10. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 92AW	46	83.1	98.3	0.0	0.0	38.0	66.0	18.9
<i>Wilson 1780W</i>	47	100.6	100.0	0.0	0.0	37.7	63.7	23.5
<i>Wilson 1790W</i>	48	91.2	95.0	0.0	0.0	39.3	64.7	23.4
Zimmerman Z16W	49	65.1	90.8	0.0	0.0	43.6	67.7	25.1
<i>Zimmerman Z62W</i>	50	86.4	81.7	0.0	0.0	41.1	67.0	22.1
Zimmerman Z63W	51	88.5	88.3	0.0	0.9	44.5	69.7	23.0
Zimmerman Z64W	52	86.4	85.8	0.0	1.1	43.1	68.7	24.3
White check (K55 × CI66)FR802W	53	91.5	95.0	0.0	2.5	45.4	70.3	23.6
Yellow check Pioneer Brand 3245	54	104.4	99.2	0.0	0.0	34.0	64.7	20.8
Yellow check Pioneer Brand 3320	55	96.8	90.8	0.0	0.9	40.7	66.0	22.9
Yellow check B73 × Mo17	56	95.5	74.2	0.0	0.0	40.8	65.3	23.4
Mean		92.6	89.9	0.0	0.5	40.8	65.5	22.8
LSD 0.05		22.3	16.4	ns	ns	3.2	1.4	2.9
CV%		14.8	11.2			4.8	1.4	7.8

Table 11. Yield and agronomic data from the 1994 White Food Corn Performance Test at Novelty, MO. New entries for 1994 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>AgriGold XA3302W</i>	1	166.2	79.9	0.0	0.0	46.1	.	23.1
<i>Asgrow RX943W</i>	2	166.3	89.6	0.0	0.7	51.6	.	21.2
<i>Asgrow X8983W</i>	3	143.2	88.2	0.0	0.0	43.5	.	24.4
<i>Bo-Jac 523W</i>	4	161.9	84.7	0.0	0.0	47.2	.	24.5
<i>Cargill 8097W</i>	5	164.3	81.9	0.0	0.0	46.4	.	24.5
<i>Cargill EXP 29003</i>	6	167.4	86.8	0.0	0.0	47.3	.	25.5
<i>Cargill EXP 29459</i>	7	153.6	74.3	0.0	0.8	47.8	.	23.2
<i>DeKalb Genetics DK703W</i>	8	154.0	80.6	0.0	1.1	45.9	.	23.4
<i>DeKalb Genetics 739W</i>	9	156.8	86.8	0.0	1.7	29.5	.	25.5
<i>DeKalb Genetics 742W</i>	10	138.5	83.3	0.0	0.0	31.0	.	25.1
<i>DeKalb Genetics EXP368W[†]</i>	11	150.2	79.2	0.0	1.8	48.6	.	24.9
<i>Genetic Resources PR26101</i>	12	162.7	91.7	0.0	0.7	49.7	.	21.7
<i>Genetic Resources PR26113</i>	13	157.0	83.3	0.0	0.0	50.9	.	20.6
<i>Golden Harvest H-2633W</i>	14	160.0	86.1	0.8	1.6	32.8	.	21.0
<i>Golden Harvest H-2651W</i>	15	166.4	92.4	0.0	3.0	42.4	.	22.2
<i>Hoegemeyer 1125W</i>	16	168.9	85.4	0.0	0.0	48.1	.	24.0
<i>Hoegemeyer 1131W</i>	17	160.3	90.3	0.0	0.0	47.7	.	24.5
<i>Hoegemeyer 1142W</i>	18	168.4	81.9	0.0	0.0	40.3	.	24.8
<i>ICI Seeds 8122W</i>	19	177.9	83.3	0.0	0.0	39.0	.	20.9
<i>ICI Seeds 8320W</i>	20	151.8	85.4	0.0	0.0	44.8	.	22.7
<i>IFSI 90-4</i>	21	165.2	91.7	0.0	0.7	41.9	.	21.0
<i>IFSI 94-2</i>	22	177.5	77.1	0.0	0.8	37.8	.	24.7
<i>IFSI 94-3</i>	23	156.7	88.9	0.0	0.0	41.0	.	25.4
<i>Mycogen 7860W</i>	24	160.7	76.4	0.0	2.4	45.4	.	24.7
<i>Mycogen 8360W</i>	25	161.3	81.9	0.0	0.0	40.4	.	22.1
<i>Northrup King N7580W</i>	26	161.0	81.2	0.0	2.5	49.7	.	23.6
<i>Ohlde 197W</i>	27	152.9	81.9	0.0	0.0	47.5	.	25.2
<i>Ohlde 198W</i>	28	163.1	95.1	0.0	0.0	48.2	.	24.6
<i>Ohlde 1219W</i>	29	166.6	88.9	0.0	0.0	46.9	.	25.0
<i>Pioneer Brand 3281W</i>	30	153.6	88.9	0.0	0.0	41.3	.	23.4
<i>Pioneer Brand 3287W</i>	31	143.9	91.0	0.0	1.4	38.9	.	25.4
<i>Pioneer Brand X1183WB</i>	32	177.6	71.5	0.0	0.9	40.0	.	25.2
<i>Sturdy Grow SG777W</i>	33	148.2	75.0	0.0	0.0	46.7	.	24.4
<i>Sturdy Grow SG797W</i>	34	174.0	85.4	0.0	0.0	47.4	.	22.9
<i>Sturdy Grow SG798W</i>	35	161.0	86.1	0.0	1.0	47.6	.	22.9
<i>Sturdy Grow SG930W</i>	36	141.7	84.0	0.0	1.4	42.5	.	24.4
<i>Sturdy Grow EXP 765W</i>	37	159.2	91.0	0.0	0.0	47.1	.	23.4
<i>Tennessee EXP 94-1</i>	38	145.6	77.1	0.0	1.7	44.8	.	22.6
<i>Triumph 1910W</i>	39	151.1	91.0	0.0	0.0	38.5	.	24.8
<i>Vineyard V58W</i>	40	174.6	84.7	0.0	1.0	48.6	.	23.4
<i>Vineyard V453W</i>	41	157.7	70.8	0.0	1.1	40.5	.	23.0
<i>Vineyard V449W</i>	42	159.7	79.2	0.0	0.9	39.7	.	22.5
<i>Vineyard Vx4483W</i>	43	148.1	85.4	0.0	0.7	44.6	.	25.1
<i>Whisnand 51AW</i>	44	165.5	80.6	0.0	1.6	47.8	.	23.6
<i>Whisnand 74W</i>	45	158.3	84.0	0.0	0.0	44.5	.	20.9

Table 11. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 92AW	46	156.9	78.5	0.0	0.0	39.7	.	24.7
<i>Wilson 1780W</i>	47	160.5	77.8	0.0	1.7	40.8	.	23.2
<i>Wilson 1790W</i>	48	144.2	79.2	0.0	0.0	40.9	.	24.2
Zimmerman Z16W	49	167.1	88.2	0.0	2.6	46.7	.	22.7
<i>Zimmerman Z62W</i>	50	170.4	89.6	0.0	0.9	45.5	.	22.3
Zimmerman Z63W	51	165.1	88.2	0.0	3.3	53.4	.	24.2
Zimmerman Z64W	52	149.4	83.3	0.0	0.9	50.0	.	26.9
White check (K55 × CI66)FR802W	53	162.6	86.8	0.0	4.8	54.1	.	23.1
Yellow check Pioneer Brand 3245	54	169.3	97.9	0.0	0.0	36.2	.	22.7
Yellow check Pioneer Brand 3320	55	155.6	79.9	0.0	0.8	43.0	.	25.1
Yellow check B73 × Mo17	56	147.2	77.1	0.0	0.0	45.7	.	23.9
Mean		159.4	84.1	0.0	0.8	44.2	.	23.7
LSD 0.05		ns	ns	ns	ns	3.8		ns
CV%						5.2		

† Data from two replications

Table 12. Yield and agronomic data from the 1994 White Food Corn Performance Test at Knoxville, TN. New entries for 1994 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>AgriGold XA3302W</i>	1	225.1	100.0	0.0	0.0	56.4	71.7	20.7
<i>Asgrow RX943W</i>	2	222.5	85.1	0.0	0.0	62.0	73.0	19.8
<i>Asgrow X8983W</i>	3	200.8	97.6	0.0	0.0	56.8	73.0	21.0
<i>Bo-Jac 523W</i>	4	226.5	105.4	0.0	0.6	62.0	71.7	20.7
<i>Cargill 8097W</i>	5	222.9	100.0	0.0	0.0	58.8	71.0	20.0
<i>Cargill EXP 29003</i>	6	206.6	100.0	0.0	0.0	58.4	69.7	18.5
<i>Cargill EXP 29459</i>	7	222.4	100.0	0.0	0.0	53.6	72.0	20.7
<i>DeKalb Genetics DK703W</i>	8	217.7	89.9	0.0	0.7	53.2	72.0	19.9
<i>DeKalb Genetics 739W</i>	9	189.2	104.2	0.0	0.5	49.6	69.7	20.5
<i>DeKalb Genetics 742W</i>	10	180.7	99.4	0.0	0.0	46.0	69.7	19.7
<i>DeKalb Genetics EXP368W</i>	11	215.1	86.3	0.0	0.0	57.6	71.7	20.5
<i>Genetic Resources PR26101</i>	12	208.3	82.7	0.0	0.0	56.8	73.7	21.5
<i>Genetic Resources PR26113</i>	13	201.9	82.7	0.0	0.0	55.6	74.0	21.1
<i>Golden Harvest H-2633W</i>	14	203.8	99.4	0.0	0.0	47.2	69.3	21.9
<i>Golden Harvest H-2651W</i>	15	218.8	99.4	0.0	0.0	56.0	69.3	21.7
<i>Hoegemeyer 1125W</i>	16	209.8	101.8	0.0	0.0	60.0	72.0	20.9
<i>Hoegemeyer 1131W</i>	17	212.6	98.8	0.0	0.0	60.8	71.0	19.4
<i>Hoegemeyer 1142W</i>	18	210.0	99.4	0.0	0.0	52.8	72.0	23.1
<i>ICI Seeds 8122W</i>	19	225.8	101.2	0.0	0.6	59.2	71.3	21.3
<i>ICI Seeds 8320W</i>	20	224.8	100.6	0.0	0.0	56.4	70.7	20.0
<i>IFSI 90-4</i>	21	216.3	104.8	0.0	0.5	53.2	70.0	22.3
<i>IFSI 94-2</i>	22	231.5	88.7	0.0	0.6	56.0	71.3	23.0
<i>IFSI 94-3</i>	23	219.8	86.9	0.0	0.0	53.6	71.7	23.9
<i>Mycogen 7860W</i>	24	219.3	95.2	0.0	0.6	61.2	71.7	19.4
<i>Mycogen 8360W</i>	25	195.0	95.2	0.0	0.0	52.0	70.7	21.9
<i>Northrup King N7580W</i>	26	215.9	97.6	0.0	0.6	57.2	72.7	20.5
<i>Ohlde 197W</i>	27	219.4	98.2	0.0	0.0	56.4	71.7	20.7
<i>Ohlde 198W</i>	28	202.7	100.6	0.0	0.6	58.8	71.3	20.2
<i>Ohlde 1219W</i>	29	213.1	101.8	0.0	0.6	58.8	71.3	19.0
<i>Pioneer Brand 3281W</i>	30	217.3	101.8	0.0	0.0	56.4	73.3	20.2
<i>Pioneer Brand 3287W</i>	31	186.7	86.3	0.0	0.0	49.2	67.7	19.6
<i>Pioneer Brand X1183WB</i>	32	236.1	98.8	0.6	0.0	55.6	72.0	20.7
<i>Sturdy Grow SG777W</i>	33	211.3	91.7	0.0	0.0	58.4	72.0	19.7
<i>Sturdy Grow SG797W</i>	34	230.1	100.6	0.0	0.0	57.2	71.0	20.6
<i>Sturdy Grow SG798W</i>	35	220.6	102.4	0.0	0.6	56.0	72.7	20.7
<i>Sturdy Grow SG930W</i>	36	196.7	101.2	0.0	0.0	57.2	72.7	23.6
<i>Sturdy Grow EXP 765W</i>	37	205.2	100.0	0.0	0.6	55.2	71.0	19.4
<i>Tennessee EXP 94-1</i>	38	209.7	98.2	0.0	0.0	58.0	72.7	20.7
<i>Triumph 1910W</i>	39	196.9	100.0	0.0	0.0	55.2	71.0	23.0
<i>Vineyard V58W</i>	40	212.0	100.0	0.0	0.0	57.6	72.0	21.6
<i>Vineyard V453W</i>	41	184.6	100.6	0.0	0.0	55.2	71.0	19.1
<i>Vineyard V449W</i>	42	182.1	103.6	0.0	0.0	50.0	71.7	20.3
<i>Vineyard Vx4483W</i>	43	200.9	106.0	0.0	0.0	54.8	70.0	19.6
<i>Whisnand 51AW</i>	44	207.6	99.4	0.0	0.6	60.0	71.3	19.8
<i>Whisnand 74W</i>	45	222.4	98.8	0.0	0.0	56.8	72.7	20.4

Table 12. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 92AW	46	204.2	100.0	0.0	0.0	55.6	72.7	23.5
<i>Wilson 1780W</i>	47	207.3	100.0	0.0	0.6	52.4	70.7	19.5
<i>Wilson 1790W</i>	48	216.0	98.2	0.0	0.0	54.4	70.0	18.9
Zimmerman Z16W	49	219.5	97.0	0.0	0.0	56.8	70.3	21.2
<i>Zimmerman Z62W</i>	50	241.5	98.8	0.0	0.0	58.4	71.0	18.2
Zimmerman Z63W	51	234.3	102.4	0.0	0.6	60.0	72.3	20.7
Zimmerman Z64W	52	229.2	100.0	0.0	0.0	58.4	73.0	20.0
White check (K55 × CI66)FR802W	53	218.3	98.2	0.0	0.6	65.2	75.3	23.0
Yellow check Pioneer Brand 3245	54	228.3	100.0	0.0	0.0	53.2	71.3	18.9
Yellow check Pioneer Brand 3320	55	204.7	100.0	0.0	0.0	54.4	71.3	19.2
Yellow check B73 × Mo17	56	193.1	98.2	0.0	0.0	56.0	71.0	18.2
Mean		212.4	97.9	0.0	0.0	56.1	71.5	20.6
LSD 0.05		20.6	8.9	ns	ns	5.1	1.4	1.1
CV%		5.9	5.6			5.5	1.2	3.1

Table 13. Yield and agronomic data from the 1994 White Food Corn Performance Test at College Station, TX. New entries for 1994 are shown in italics. College Station was an irrigated location.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>AgriGold XA3302W</i>	1	199.2	81.1	.	.	37.3	83.7	13.6
<i>Asgrow RX943W</i>	2	194.0	82.8	.	.	43.7	85.3	13.9
<i>Asgrow X8983W</i>	3	177.1	68.3	.	.	37.0	85.3	14.3
<i>Bo-Jac 523W</i>	4	189.9	73.9	.	.	40.3	83.3	13.4
<i>Cargill 8097W</i>	5	203.3	76.7	.	.	42.3	83.7	13.5
<i>Cargill EXP 29003</i>	6	190.7	77.8	.	.	39.3	83.0	12.4
<i>Cargill EXP 29459</i>	7	190.4	88.9	.	.	40.3	85.3	13.6
<i>DeKalb Genetics DK703W</i>	8	195.5	76.1	.	.	36.0	84.3	13.2
<i>DeKalb Genetics 739W</i>	9	155.7	71.1	.	.	30.7	82.7	12.7
<i>DeKalb Genetics 742W</i>	10	166.3	76.7	.	.	34.0	83.0	12.6
<i>DeKalb Genetics EXP368W</i>	11	203.8	75.6	.	.	40.3	86.0	13.1
<i>Genetic Resources PR26101</i>	12	186.7	76.1	.	.	39.0	85.3	13.0
<i>Genetic Resources PR26113</i>	13	181.7	71.7	.	.	38.3	85.7	13.5
<i>Golden Harvest H-2633W</i>	14	194.9	76.7	.	.	36.0	81.7	13.9
<i>Golden Harvest H-2651W</i>	15	199.7	84.4	.	.	38.7	84.0	13.1
<i>Hoegemeyer 1125W</i>	16	184.1	81.1	.	.	39.7	84.3	13.3
<i>Hoegemeyer 1131W</i>	17	188.3	73.9	.	.	43.3	85.7	13.2
<i>Hoegemeyer 1142W</i>	18	187.0	71.7	.	.	37.0	84.7	14.3
<i>ICI Seeds 8122W</i>	19	205.6	76.7	.	.	37.0	84.3	13.3
<i>ICI Seeds 8320W</i>	20	191.5	71.1	.	.	40.3	84.0	13.3
<i>IFSI 90-4</i>	21	194.6	79.4	.	.	39.7	84.7	13.4
<i>IFSI 94-2</i>	22	198.3	76.7	.	.	38.7	84.3	13.3
<i>IFSI 94-3</i>	23	217.4	71.1	.	.	40.0	84.3	14.8
<i>Mycogen 7860W</i>	24	190.2	76.1	.	.	42.7	82.7	13.2
<i>Mycogen 8360W</i>	25	186.1	73.3	.	.	40.0	84.7	14.0
<i>Northrup King N7580W</i>	26	204.8	80.6	.	.	39.3	84.7	13.6
<i>Ohlde 197W</i>	27	207.3	71.7	.	.	34.3	83.0	13.6
<i>Ohlde 198W</i>	28	197.9	78.3	.	.	44.3	84.0	13.2
<i>Ohlde 1219W</i>	29	185.7	55.6	.	.	42.3 [†]	84.3	12.9
<i>Pioneer Brand 3281W</i>	30	223.4	85.6	.	.	41.3	85.3	13.2
<i>Pioneer Brand 3287W</i>	31	171.6	75.0	.	.	36.3	80.0	13.9
<i>Pioneer Brand X1183WB</i>	32	226.4	70.0	.	.	39.0	86.0	12.7
<i>Sturdy Grow SG777W</i>	33	180.4	71.1	.	.	43.3	84.3	13.1
<i>Sturdy Grow SG797W</i>	34	196.0	74.4	.	.	38.3	84.7	13.5
<i>Sturdy Grow SG798W</i>	35	197.9	76.7	.	.	32.3	84.7	13.9
<i>Sturdy Grow SG930W</i>	36	194.3	74.4	.	.	38.3	84.7	15.0
<i>Sturdy Grow EXP 765W</i>	37	197.8	75.0	.	.	39.0	82.3	13.2
<i>Tennessee EXP 94-1</i>	38	155.9	72.8	.	.	36.7	85.0	13.6
<i>Triumph 1910W</i>	39	170.7	78.3	.	.	34.3	84.7	14.1
<i>Vineyard V58W</i>	40	199.2	72.2	.	.	38.0	84.0	13.7
<i>Vineyard V453W</i>	41	198.8 [†]	70.0	.	.	37.7	84.7	13.3 [†]
<i>Vineyard V449W</i>	42	150.9	75.0	.	.	35.7	84.0	13.7
<i>Vineyard Vx4483W</i>	43	168.2	55.6	.	.	36.7	81.3	13.5
<i>Whisnand 51AW</i>	44	190.1	78.3	.	.	39.7	83.7	13.2
<i>Whisnand 74W</i>	45	191.4	70.6	.	.	41.0	85.7	13.0

Table 13. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 92AW	46	184.0	80.0	.	.	37.3	85.0	14.3
<i>Wilson 1780W</i>	47	190.2	78.9	.	.	37.3	83.0	12.9
<i>Wilson 1790W</i>	48	184.8	72.8	.	.	39.3	82.7	13.0
Zimmerman Z16W	49	193.2	81.7	.	.	43.0	84.7	15.0
<i>Zimmerman Z62W</i>	50	200.0	76.1	.	.	41.7	86.3	13.3
Zimmerman Z63W	51	195.1	92.8	.	.	41.3	86.7	14.7
Zimmerman Z64W	52	204.5	78.9	.	.	37.0	86.3	14.1
White check (K55 × CI66)FR802W	53	168.0	75.6	.	.	36.7	87.0	14.6
Yellow check Pioneer Brand 3245	54	220.9	86.7	.	.	34.7	85.3	13.2
Yellow check Pioneer Brand 3320	55	199.1	80.0	.	.	40.7	84.7	12.9
Yellow check B73 × Mo17	56	206.8	73.3	.	.	41.0	85.0	12.1
Mean		191.6	75.8	.	.	38.7	84.4	13.5
LSD 0.05		24.5	ns			6.6	1.7	0.9
CV%		7.8				10.4	1.2	4.0

† Data from two replications.

Table 14. Yield and agronomic data from the 1994 White Food Corn Performance Test at Springlake, TX. New entries for 1994 are shown in italics. Springlake was an irrigated location.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
<i>AgriGold XA3302W</i>	1	196.5	86.1	.	.	.	73.0	15.0
<i>Asgrow RX943W</i>	2	189.7	90.6	.	.	.	73.3	16.6
<i>Asgrow X8983W</i>	3	185.8	83.3	.	.	.	73.0	16.2 [†]
<i>Bo-Jac 523W</i>	4	197.2	95.0	.	.	.	72.7	14.6
<i>Cargill 8097W</i>	5	202.9	95.0	.	.	.	73.0	14.6
<i>Cargill EXP 29003</i>	6	173.4	83.3	.	.	.	72.0	16.1
<i>Cargill EXP 29459</i>	7	189.9	96.1	.	.	.	73.7	15.3
<i>DeKalb Genetics DK703W</i>	8	183.1	78.9	.	.	.	72.0	15.1
<i>DeKalb Genetics 739W</i>	9	155.7	91.1	.	.	.	72.7	14.1
<i>DeKalb Genetics 742W</i>	10	155.3	85.6	.	.	.	72.7	14.7
<i>DeKalb Genetics EXP368W</i>	11	193.4	90.0	.	.	.	72.0	15.8
<i>Genetic Resources PR26101</i>	12	176.7	83.3	.	.	.	76.0	17.0
<i>Genetic Resources PR26113</i>	13	180.2	90.0	.	.	.	76.7	17.5
<i>Golden Harvest H-2633W</i>	14	166.2	97.2	.	.	.	71.7	16.9
<i>Golden Harvest H-2651W</i>	15	142.3	101.7	.	.	.	73.3	17.5
<i>Hoegemeyer 1125W</i>	16	192.0	87.8	.	.	.	72.3	14.9
<i>Hoegemeyer 1131W</i>	17	203.5	86.1	.	.	.	73.3	14.1
<i>Hoegemeyer 1142W</i>	18	155.3	105.6	.	.	.	74.0	17.5
<i>ICI Seeds 8122W</i>	19	164.7	91.7	.	.	.	73.0	17.7
<i>ICI Seeds 8320W</i>	20	195.2	87.2	.	.	.	72.7	14.6
<i>IFSI 90-4</i>	21	178.3	92.8	.	.	.	73.3	17.8
<i>IFSI 94-2</i>	22	175.3	92.2	.	.	.	73.0	18.6
<i>IFSI 94-3</i>	23	185.2	99.4	.	.	.	73.0	17.7
<i>Mycogen 7860W</i>	24	181.9	84.4	.	.	.	73.0	13.7
<i>Mycogen 8360W</i>	25	169.7	91.7	.	.	.	72.3	17.6
<i>Northrup King N7580W</i>	26	201.0	91.7	.	.	.	72.3	15.4
<i>Ohlde 197W</i>	27	186.5	84.4	.	.	.	72.3	15.5
<i>Ohlde 198W</i>	28	191.7	95.0	.	.	.	73.0	13.8
<i>Ohlde 1219W</i>	29	193.3	75.6	.	.	.	72.3	14.0
<i>Pioneer Brand 3281W</i>	30	187.1	85.6	.	.	.	72.3	14.4
<i>Pioneer Brand 3287W</i>	31	156.2	96.7	.	.	.	71.0	13.9
<i>Pioneer Brand X1183WB</i>	32	155.9	78.9	.	.	.	72.7	14.7
<i>Sturdy Grow SG777W</i>	33	187.5	92.2	.	.	.	72.7	14.3
<i>Sturdy Grow SG797W</i>	34	194.7 [†]	94.4	.	.	.	72.3	15.0 [†]
<i>Sturdy Grow SG798W</i>	35	208.5	98.3	.	.	.	73.0	15.1
<i>Sturdy Grow SG930W</i>	36	148.3	101.7	.	.	.	72.7	18.9
<i>Sturdy Grow EXP 765W</i>	37	193.8	87.8	.	.	.	72.0	14.5
<i>Tennessee EXP 94-1</i>	38	177.5	91.1	.	.	.	74.7	16.0
<i>Triumph 1910W</i>	39	169.5	70.6	.	.	.	72.0	18.3
<i>Vineyard V58W</i>	40	198.6	91.1	.	.	.	72.3	16.5
<i>Vineyard V453W</i>	41	184.1	96.7	.	.	.	72.7	14.6
<i>Vineyard V449W</i>	42	148.9	96.1	.	.	.	72.0	14.6
<i>Vineyard Vx4483W</i>	43	184.6	90.6	.	.	.	72.3	14.3
<i>Whisnand 51AW</i>	44	196.2	86.7	.	.	.	72.3	13.9
<i>Whisnand 74W</i>	45	173.8	102.8	.	.	.	75.0	16.2

Table 14. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 92AW	46	187.2 [†]	88.9	.	.	.	73.3	18.4 [†]
<i>Wilson 1780W</i>	47	179.6	81.7	.	.	.	72.0	16.1
<i>Wilson 1790W</i>	48	168.6	83.9	.	.	.	72.0	14.9
Zimmerman Z16W	49	180.2	91.1	.	.	.	72.3	17.1
<i>Zimmerman Z62W</i>	50	187.8	101.7	.	.	.	75.0	14.8
Zimmerman Z63W	51	181.8	93.9	.	.	.	78.0	18.2
Zimmerman Z64W	52	199.9	90.6	.	.	.	74.3	17.3
White check (K55 × CI66)FR802W	53	176.3	97.8	.	.	.	79.0	19.1
Yellow check Pioneer Brand 3245	54	187.8	90.0	.	.	.	72.3	14.4
Yellow check Pioneer Brand 3320	55	162.8	91.7	.	.	.	71.7	14.0
Yellow check B73 × Mo17	56	202.0	98.9	.	.	.	72.7	14.4
Mean		181.1	90.8	.	.	.	72.7	14.4
LSD 0.05		28.5	ns				1.4	1.2
CV%		9.6					1.2	4.8

[†] Data from two replications.

Table 15. Combined yield and agronomic data from 12 locations of the 1994 White Food Corn Performance Test. New entries for 1994 are shown 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>AgriGold XA3302W</i>	1	184.8	92.4	0.0	0.7	48.0	73.8	20.6	1.08	8.5
<i>Asgrow RX943W</i>	2	183.5	90.1	0.4	1.7	50.3	75.0	21.0	1.07	3.7
<i>Asgrow X8983W</i>	3	173.2	93.0	0.2	1.1	44.7	74.7	21.7	1.08	8.4
<i>Bo-Jac 523W</i>	4	185.6	94.1	0.3	1.0	48.1	73.4	20.2	1.13	10.1
<i>Cargill 8097W</i>	5	186.9	94.2	0.4	0.9	49.3	73.6	20.0	1.10	9.9
<i>Cargill EXP 29003</i>	6	182.4	93.0	0.1	3.2	48.3	72.9	19.9	1.10	10.9
<i>Cargill EXP 29459</i>	7	178.6	93.2	0.0	1.1	48.6	74.2	20.5	1.02	7.3
<i>DeKalb Genetics DK703W</i>	8	178.5	87.9	0.0	1.3	46.2	73.7	20.4	1.07	6.2
<i>DeKalb Genetics 739W</i>	9	162.0	93.5	0.2	0.9	36.2	73.1	20.0	0.81	13.0
<i>DeKalb Genetics 742W</i>	10	160.7	93.1	0.2	0.4	36.3	72.5	20.2	0.78	10.2
<i>DeKalb Genetics EXP368W</i>	11	183.2	88.5	0.7	2.1	49.3	73.7	19.8	1.02	11.8
<i>Genetic Resources PR26101</i>	12	169.5	86.3	0.0	1.0	47.7	76.3	22.2	0.79	12.0
<i>Genetic Resources PR26113</i>	13	173.1	89.7	1.0	0.9	47.7	76.2	22.5	0.75	5.0
<i>Golden Harvest H-2633W</i>	14	174.2	93.6	0.1	0.9	39.6	72.3	21.5	0.90	10.5
<i>Golden Harvest H-2651W</i>	15	180.2	95.7	0.1	0.9	43.8	73.2	21.5	0.91	14.7
<i>Hoegemeyer 1125W</i>	16	186.3	92.4	0.3	1.3	48.1	74.3	21.0	0.98	12.2
<i>Hoegemeyer 1131W</i>	17	182.1	92.8	0.3	0.9	48.8	74.6	20.4	1.04	8.8
<i>Hoegemeyer 1142W</i>	18	166.3	93.2	0.1	1.2	44.8	74.2	23.6	0.91	12.5
<i>ICI Seeds 8122W</i>	19	183.7	93.2	0.0	1.3	45.5	73.6	21.5	0.92	11.3
<i>ICI Seeds 8320W</i>	20	183.0	93.8	0.4	1.0	48.8	73.6	20.1	1.04	7.5
<i>IFSI 90-4</i>	21	178.7	96.2	0.0	0.6	43.5	73.3	22.1	0.95	5.9
<i>IFSI 94-2</i>	22	183.7	92.0	0.0	1.1	44.2	74.3	23.1	1.01	10.3
<i>IFSI 94-3</i>	23	187.3	93.0	0.2	1.1	43.9	74.3	24.3	1.06	10.3
<i>Mycogen 7860W</i>	24	185.3	90.8	0.5	1.8	49.9	73.8	20.3	1.21	12.2
<i>Mycogen 8360W</i>	25	168.0	93.0	0.2	2.0	45.3	73.7	22.7	0.83	7.6
<i>Northrup King N7580W</i>	26	183.4	93.6	0.1	1.1	48.2	74.1	21.0	1.06	7.8
<i>Ohlde 197W</i>	27	186.0	92.2	0.6	1.4	47.7	73.7	20.7	1.19	9.1
<i>Ohlde 198W</i>	28	187.0	95.3	0.3	1.1	49.8	74.1	19.9	1.13	10.8
<i>Ohlde 1219W</i>	29	186.1	91.0	0.1	1.0	47.8	74.0	19.7	1.16	11.1
<i>Pioneer Brand 3281W</i>	30	176.4	94.4	0.4	0.4	43.9	74.7	19.9	1.04	15.3
<i>Pioneer Brand 3287W</i>	31	164.0	92.9	0.9	0.7	41.4	70.3	19.6	0.85	9.9
<i>Pioneer Brand X1183WB</i>	32	199.2	90.1	0.2	1.3	45.3	74.4	20.2	1.27	16.8
<i>Sturdy Grow SG777W</i>	33	170.8	87.6	0.3	1.2	47.4	73.6	20.0	0.93	9.9
<i>Sturdy Grow SG797W</i>	34	187.0	93.4	0.2	0.8	48.5	73.8	20.8	1.08	8.0
<i>Sturdy Grow SG798W</i>	35	183.2	93.5	0.1	0.9	47.3	74.4	20.7	1.07	8.0
<i>Sturdy Grow SG930W</i>	36	165.5	94.2	0.0	1.0	45.6	74.3	23.8	0.90	12.6
<i>Sturdy Grow EXP 765W</i>	37	183.4	93.8	0.2	1.9	45.9	73.2	19.2	1.05	8.4
<i>Tennessee EXP 94-1</i>	38	166.5	92.4	0.5	1.8	47.6	75.7	22.5	0.90	16.2
<i>Triumph 1910W</i>	39	163.8	92.0	0.2	1.0	41.9	73.9	23.3	0.78	7.9
<i>Vineyard V58W</i>	40	184.9	93.8	0.0	1.1	48.3	74.1	21.5	1.16	9.9
<i>Vineyard V453W</i>	41	172.2	92.5	0.0	1.0	43.1	73.6	20.2	0.82	10.4
<i>Vineyard V449W</i>	42	162.5	91.1	0.2	1.1	42.1	73.7	20.7	0.82	11.8
<i>Vineyard Vx4483W</i>	43	174.5	92.9	0.5	1.6	45.3	72.3	20.2	0.90	9.6
<i>Whisnand 51AW</i>	44	186.7	92.1	0.1	1.2	48.3	73.4	20.0	1.07	11.9
<i>Whisnand 74W</i>	45	175.3	94.0	0.0	0.5	47.4	75.4	21.6	1.03	8.7

Table 15. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)	b _I (bu/a/I)	Std. devn. (bu/a)
Whisnand 92AW	46	168.8	93.8	0.1	0.3	44.8	74.7	23.1	0.93	10.3
<i>Wilson 1780W</i>	47	177.7	92.9	0.0	0.9	43.5	73.3	21.1	0.83	7.9
<i>Wilson 1790W</i>	48	178.5	91.6	0.0	1.8	44.0	72.5	20.3	0.98	10.1
Zimmerman Z16W	49	169.6	94.4	0.7	1.3	46.0	74.4	23.2	1.18	12.4
<i>Zimmerman Z62W</i>	50	186.6	93.9	0.3	1.1	47.5	75.3	19.8	1.18	13.0
Zimmerman Z63W	51	182.2	94.8	1.4	2.1	51.0	76.7	23.6	1.06	7.6
Zimmerman Z64W	52	185.2	92.7	0.5	2.7	48.2	76.1	22.6	1.29	17.3
White check (K55 × CI66)FR802W	53	158.5	94.4	2.5	3.3	53.2	78.0	23.9	0.85	26.0
Yellow check Pioneer Brand 3245	54	190.1	96.0	0.1	1.6	39.7	73.8	18.7	1.04	9.5
Yellow check Pioneer Brand 3320	55	180.5	93.6	0.8	1.2	45.1	73.9	19.9	0.95	10.5
Yellow check B73 × Mo17	56	180.5	91.2	0.2	0.6	46.2	73.5	19.5	0.94	16.0
Mean		178.2	92.7	0.3	1.2	46.0	74.1	21.1	1.00	10.6
LSD 0.05		10.3	3.8	ns	ns	2.2	1.1	1.1	0.06	
CV%		8.2	7.2			8.2	1.6	6.5		
Location means:										
Champaign, IL		193.6	98.2	1.0	0.0	49.8	.	24.0		
Paris, IL		224.0	99.1	0.4	1.1	54.0	.	24.1		
Winchester, IL		210.4	99.4	0.1	0.1	52.9	.	27.3		
West Lafayette, IN		199.8	88.1	0.7	1.8	47.3	.	20.5		
Rossville, KS [†]		154.3	89.8	.	6.3	43.7	76.0	24.0		
Henderson, KY		177.3	100.0	.	1.1	.	.	14.6		
Lexington, KY		141.5	99.1	.	0.5	32.9	73.9	22.5		
Columbia, MO		92.6	89.9	0.0	0.5	40.8	65.5	22.8		
Novelty, MO		159.4	84.1	0.0	0.8	44.2	.	23.7		
Knoxville, TN		212.4	97.9	0.0	0.2	56.1	71.5	20.6		
College Station, TX [†]		191.6	75.8	.	.	38.7	84.4	13.5		
Springlake, TX [†]		181.1	90.8	.	.	.	73.1	15.8		

[†] Irrigated location.

Table 16. Yield data (bu/a) from 12 locations of the 1994 White Food Corn Performance Test. New entries for 1994 are shown in italics.

Entry	No.	Cham- paign, IL	Paris, IL	Win- chester, IN	W. La- fayette, IN	Ross- ville, KS [†]	Hender- son, KY	Lexing- ton KY	Colum- bia, MO	Novelty, MO	Knox- ville, TN	College Station, TX [†]	Spring- lake, TX [†]	Com- bined
<i>AgriGold XA3302W</i>	1	194.4	232.5	215.3	196.0	176.2	190.3	142.8	83.2	166.2	225.1	199.2	196.5	184.8
<i>Asgrow RX943W</i>	2	202.5	232.2	213.8	202.8	162.6	182.4	146.7	86.3	166.3	222.5	194.0	189.7	183.5
<i>Asgrow X8983W</i>	3	194.1	220.3	223.6	200.3	150.5	167.2	132.7	83.0	143.2	200.8	177.1	185.8	173.2
<i>Bo-Jac 523W</i>	4	208.9	247.1	226.6	202.3	137.4	184.3	143.3	101.5	161.9	226.5	189.9	197.2	185.6
<i>Cargill 8097W</i>	5	216.5	235.0	213.6	195.7	171.2	180.9	155.2	81.0	164.3	222.9	203.3	202.9	186.9
<i>Cargill EXP 29003</i>	6	203.4	242.7	217.5	220.0	138.6	184.4	155.1	89.0	167.4	206.6	190.7	173.4	182.4
<i>Cargill EXP 29459</i>	7	187.3	220.5	206.5	201.5	168.9	173.9	140.6	87.2	153.6	222.4	190.4	189.9	178.6
<i>DeKalb Genetics DK703W</i>	8	200.4	216.5	220.9	204.1	155.1	166.8	142.5	86.0	154.0	217.7	195.5	183.1	178.5
<i>DeKalb Genetics 739W</i>	9	182.0	193.7	184.5	181.1	169.0	161.4	141.1	74.2	156.8	189.2	155.7	155.7	162.0
<i>DeKalb Genetics 742W</i>	10	184.4	208.9	178.5	170.3	162.9	162.4	128.3	91.5	138.5	180.7	166.3	155.3	160.7
<i>DeKalb Genetics EXP368W</i>	11	202.0	226.6	207.8	226.1	156.0	163.4	159.5	94.4	150.2	215.1	203.8	193.4	183.2
<i>Genetic Resources PR26101</i>	12	174.5	181.7	194.5	199.1	143.6	178.9	124.9	102.7	162.7	208.3	186.7	176.7	169.5
<i>Genetic Resources PR26113</i>	13	184.0	208.2	198.2	184.1	150.6	179.3	137.0	115.2	157.0	201.9	181.7	180.2	173.1
<i>Golden Harvest H-2633W</i>	14	198.5	215.4	202.5	179.9	174.5	170.9	130.2	93.7	160.0	203.8	194.9	166.2	174.2
<i>Golden Harvest H-2651W</i>	15	202.5	222.9	218.9	200.9	158.5	180.2	137.4	114.4	166.4	218.8	199.7	142.3	180.2
<i>Hoegemeyer 1125W</i>	16	215.9	237.3	200.1	230.1	167.8	182.1	144.9	102.3	168.9	209.8	184.1	192.0	186.3
<i>Hoegemeyer 1131W</i>	17	204.0	228.5	217.3	209.2	147.8	180.0	132.5	100.8	160.3	212.6	188.3	203.5	182.1
<i>Hoegemeyer 1142W</i>	18	161.5	203.4	189.2	181.9	149.1	172.5	142.1	74.9	168.4	210.0	187.0	155.3	166.3
<i>ICI Seeds 8122W</i>	19	197.8	232.4	216.9	195.8	156.8	166.3	155.4	109.1	177.9	225.8	205.6	164.7	183.7
<i>ICI Seeds 8320W</i>	20	194.7	220.1	226.0	209.9	162.4	178.9	145.2	95.0	151.8	224.8	191.5	195.2	183.0
<i>IFSI 90-4</i>	21	194.8	219.9	210.9	192.1	157.3	169.1	154.5	91.9	165.2	216.3	194.6	178.3	178.7
<i>IFSI 94-2</i>	22	195.1	220.3	228.5	200.5	146.8	188.5	138.4	103.4	177.5	231.5	198.3	175.3	183.7
<i>IFSI 94-3</i>	23	197.3	231.9	223.8	216.0	183.1	180.7	139.0	97.2	156.7	219.8	217.4	185.2	187.3
<i>Mycogen 7860W</i>	24	209.6	242.5	240.1	230.6	141.5	176.6	132.3	97.8	160.7	219.3	190.2	181.9	185.3
<i>Mycogen 8360W</i>	25	173.0	212.3	200.2	184.7	142.8	159.9	125.2	106.2	161.3	195.0	186.1	169.7	168.0
<i>Northrup King N7580W</i>	26	187.5	233.2	220.6	200.3	163.0	175.5	149.9	88.3	161.0	215.9	204.8	201.0	183.4
<i>Ohlde 197W</i>	27	212.1	251.6	220.2	213.3	167.5	167.8	147.6	85.4	152.9	219.4	207.3	186.5	186.0
<i>Ohlde 198W</i>	28	203.9	242.6	244.0	219.2	150.7	187.9	144.7	95.2	163.1	202.7	197.9	191.7	187.0
<i>Ohlde 1219W</i>	29	199.5	248.6	227.1	233.7	149.4	177.7	147.9	91.2	166.6	213.1	185.7	193.3	186.1
<i>Pioneer Brand 3281W</i>	30	168.0	231.6	188.5	195.8	147.6	179.6	136.3	88.0	153.6	217.3	223.4	187.1	176.4

Table 16. Continued.

Entry	No.	Cham- paign, IL	Paris, IL	Win- chester, IN	W. La- fayette, IN	Ross- ville, KS [†]	Hender- son, KY	Lexing- ton KY	Colum- bia, MO	Novelty, MO	Knox- ville, TN	College Station, TX [†]	Spring- lake, TX [†]	Com- bined
Pioneer Brand 3287W	31	194.9	201.3	199.6	185.8	155.6	155.7	119.7	96.7	143.9	186.7	171.6	156.2	164.0
<i>Pioneer Brand X1183WB</i>	32	224.2	258.2	246.1	244.6	168.0	204.9	154.0	94.7	177.6	236.1	226.4	155.9	199.2
Sturdy Grow SG777W	33	183.8	215.4	194.3	185.2	127.1	176.4	144.8	95.6	148.2	211.3	180.4	187.5	170.8
Sturdy Grow SG797W	34	213.0	237.4	208.1	206.6	151.9	195.3	140.7	95.7	174.0	230.1	196.0	194.7	187.0
Sturdy Grow SG798W	35	197.7	231.6	214.7	199.3	156.9	181.2	135.4	94.2	161.0	220.6	197.9	208.5	183.2
Sturdy Grow SG930W	36	176.5	210.2	181.3	182.1	166.5	171.1	138.5	79.1	141.7	196.7	194.3	148.3	165.5
Sturdy Grow EXP 765W	37	210.7	229.8	222.4	211.3	142.9	183.3	148.1	96.1	159.2	205.2	197.8	193.8	183.4
<i>Tennessee EXP 94-1</i>	38	172.7	218.7	182.0	173.9	179.3	167.5	138.6	77.0	145.6	209.7	155.9	177.5	166.5
Triumph 1910W	39	178.3	205.3	185.2	184.9	142.1	141.9	137.5	101.6	151.1	196.9	170.7	169.5	163.8
Vineyard V58W	40	186.4	245.6	218.7	214.4	153.1	187.6	152.3	75.8	174.6	212.0	199.2	198.6	184.9
Vineyard V453W	41	198.3	202.8	204.6	177.5	144.2	172.1	143.1	98.8	157.7	184.6	198.8	184.1	172.2
Vineyard V449W	42	180.5	211.4	186.6	193.4	144.3	169.5	129.9	92.4	159.7	182.1	150.9	148.9	162.5
<i>Vineyard Vx4483W</i>	43	191.0	216.3	212.2	209.6	148.9	167.8	142.6	104.1	148.1	200.9	168.2	184.6	174.5
Whisnand 51AW	44	215.8	234.5	218.7	232.8	144.3	190.0	147.4	98.2	165.5	207.6	190.1	196.2	186.7
Whisnand 74W	45	181.2	219.7	208.9	197.8	168.5	162.4	135.4	84.0	158.3	222.4	191.4	173.8	175.3
Whisnand 92AW	46	175.5	218.7	188.0	173.0	161.2	162.7	131.3	83.1	156.9	204.2	184.0	187.2	168.8
<i>Wilson 1780W</i>	47	199.5	222.4	194.2	188.3	168.8	166.0	154.9	100.6	160.5	207.3	190.2	179.6	177.7
<i>Wilson 1790W</i>	48	206.8	219.3	213.4	199.2	166.6	176.0	156.3	91.2	144.2	216.0	184.8	168.6	178.5
Zimmerman Z16W	49	175.2	211.6	215.1	183.6	121.4	174.1	128.6	65.1	167.1	219.5	193.2	180.2	169.6
<i>Zimmerman Z62W</i>	50	202.4	231.9	216.6	211.8	131.8	208.5	149.9	86.4	170.4	241.5	200.0	187.8	186.6
Zimmerman Z63W	51	203.8	222.0	214.2	196.1	166.2	179.1	140.1	88.5	165.1	234.3	195.1	181.8	182.2
Zimmerman Z64W	52	217.2	247.0	230.7	193.3	114.6	204.1	145.7	86.4	149.4	229.2	204.5	199.9	185.2
White check (K55 × CI66)FR802W	53	108.7	188.0	195.7	174.4	128.7	181.2	108.4	91.5	162.6	218.3	168.0	176.3	158.5
Yellow check Pioneer Brand 3245	54	217.4	225.6	225.2	216.2	152.1	179.4	154.3	104.4	169.3	228.3	220.9	187.8	190.1
Yellow check Pioneer Brand 3320	55	197.0	226.1	221.5	193.8	158.6	196.6	153.8	96.8	155.6	204.7	199.1	162.8	180.5
Yellow check B73 × Mo17	56	184.5	233.5	206.9	183.2	170.4	204.5	138.0	95.5	147.2	193.1	206.8	202.0	180.5
Mean		193.6	224.0	210.4	199.8	154.3	177.3	141.5	92.6	159.4	212.4	191.6	181.1	178.2
LSD 0.05		25.4	24.2	21.6	20.2	27.4	21.6	ns	22.3	ns	20.6	24.5	28.5	10.3
CV%		8.0	6.6	6.3	6.2	10.9	7.5		14.8		5.9	7.8	9.6	8.2

[†] Irrigated location.

Table 17. Combined European corn borer whorl-leaf feeding and stalk tunneling data from Columbia and Novelty, MO, for the 1994 White Food Corn Performance Test. New entries for 1994 are shown in italics.

Entry	No.	Leaf feeding (1-9)	No. of tunnels (no)	Tunnel length (in)
<i>AgriGold XA3302W</i>	1	4.0	1.5	1.7
<i>Asgrow RX943W</i>	2	4.5	1.3	1.4
<i>Asgrow X8983W</i>	3	3.3	1.3	1.4
<i>Bo-Jac 523W</i>	4	4.8	2.1	2.8
<i>Cargill 8097W</i>	5	4.0	1.3	1.8
<i>Cargill EXP 29003</i>	6	3.3	1.5	1.8
<i>Cargill EXP 29459</i>	7	3.8	1.3	1.7
<i>DeKalb Genetics DK703W</i>	8	5.2	1.7	1.9
<i>DeKalb Genetics 739W</i>	9	4.7	2.3	2.5
<i>DeKalb Genetics 742W</i>	10	5.0	3.1	3.5
<i>DeKalb Genetics EXP368W</i>	11	5.5	1.5	1.7
<i>Genetic Resources PR26101</i>	12	3.3	2.0	2.4
<i>Genetic Resources PR26113</i>	13	4.2	2.8	3.0
<i>Golden Harvest H-2633W</i>	14	3.2	1.6	1.6
<i>Golden Harvest H-2651W</i>	15	2.8	1.1	1.2
<i>Hoegemeyer 1125W</i>	16	3.2	1.4	1.6
<i>Hoegemeyer 1131W</i>	17	4.5	1.9	2.2
<i>Hoegemeyer 1142W</i>	18	3.5	1.2	1.5
<i>ICI Seeds 8122W</i>	19	2.7	0.9	1.0
<i>ICI Seeds 8320W</i>	20	3.7	1.5	1.7
<i>IFSI 90-4</i>	21	3.2	1.4	1.4
<i>IFSI 94-2</i>	22	3.3	1.1	1.2
<i>IFSI 94-3</i>	23	3.7	1.6	1.7
<i>Mycogen 7860W</i>	24	3.8	1.8	1.9
<i>Mycogen 8360W</i>	25	3.8	1.6	1.8
<i>Northrup King N7580W</i>	26	3.8	2.3	2.6
<i>Ohlde 197W</i>	27	3.2	1.6	2.0
<i>Ohlde 198W</i>	28	3.8	2.2	2.5
<i>Ohlde 1219W</i>	29	4.3	2.1	2.5
<i>Pioneer Brand 3281W</i>	30	3.7	0.9	0.9
<i>Pioneer Brand 3287W</i>	31	3.5	1.0	1.0
<i>Pioneer Brand X1183WB</i>	32	4.2	2.3	2.4
<i>Sturdy Grow SG777W</i>	33	4.2	2.2	2.4
<i>Sturdy Grow SG797W</i>	34	4.3	2.0	2.3
<i>Sturdy Grow SG798W</i>	35	3.7	1.8	2.0
<i>Sturdy Grow SG930W</i>	36	3.2	1.4	1.7
<i>Sturdy Grow EXP 765W</i>	37	4.8	1.9	2.0
<i>Tennessee EXP 94-1</i>	38	4.7	2.0	2.3
<i>Triumph 1910W</i>	39	3.5	0.8	0.9
<i>Vineyard V58W</i>	40	3.8	1.9	2.3
<i>Vineyard V453W</i>	41	4.3	1.0	1.2
<i>Vineyard V449W</i>	42	2.8	0.9	1.1
<i>Vineyard Vx4483W</i>	43	4.3	1.2	1.3
<i>Whisnand 51AW</i>	44	3.8	1.2	1.3
<i>Whisnand 74W</i>	45	4.5	1.3	1.6

Table 17. Continued.

Entry	No.	Leaf feeding (1-9)	No. of tunnels (no)	Tunnel length (in)
Whisnand 92AW	46	2.8	1.0	1.1
<i>Wilson 1780W</i>	47	5.8	1.3	1.5
<i>Wilson 1790W</i>	48	5.8	1.4	1.5
Zimmerman Z16W	49	2.8	1.0	1.1
<i>Zimmerman Z62W</i>	50	2.2	1.9	2.0
Zimmerman Z63W	51	2.7	1.4	1.6
Zimmerman Z64W	52	3.2	1.4	1.4
White check (K55 × CI66)FR802W	53	4.7	1.9	2.1
Yellow check Pioneer Brand 3245	54	3.8	1.2	1.3
Yellow check Pioneer Brand 3320	55	5.0	1.2	1.2
Yellow check B73 × Mo17	56	3.5	1.7	1.8
Susceptible check (Ki3)		5.5	2.0	2.5
Susceptible check (Wf9 × W182E)		5.5	2.1	2.5
Resistant check (Pioneer Brand 3184)		3.2	0.8	1.0
Mean		3.9	1.6	1.8
LSD 0.05 [†]		1.2	0.9	1.1
CV%		27.8	51.0	51.7

[†] Pooled error mean square used for testing differences among genotypes.

Table 18. Yield and agronomic data from common entries in the 1993-1994 White Food Corn Performance Tests[†].

Entry	Years (no)	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Asgrow RX943W	2	163.9	93.9	1.0	5.6	50.3	77.0	20.7
Bo-Jac 523W	2	165.8	94.8	2.1	3.2	49.0	75.3	19.3
Cargill 8097W	2	169.0	95.3	1.4	3.4	49.1	75.4	19.5
DeKalb Genetics DK703W	2	161.5	91.4	1.7	3.9	47.1	75.6	19.9
DeKalb Genetics EXP368W	2	166.0	90.1	2.0	4.2	50.7	76.0	19.2
DeKalb Genetics 739W	2	147.1	94.5	1.0	2.2	36.6	74.4	19.5
DeKalb Genetics 742W	2	146.4	93.5	0.6	3.8	37.1	74.1	19.6
Hoegemeyer 1125W	2	166.0	94.5	2.0	3.6	48.5	76.1	19.9
Hoegemeyer 1131W	2	157.3	91.9	1.0	2.7	49.2	76.3	19.6
Hoegemeyer 1142W	2	155.9	95.2	1.8	3.2	45.8	75.5	22.6
ICI Seeds 8122W	2	167.8	95.4	0.7	5.1	45.9	75.3	21.3
ICI Seeds 8320W	2	166.1	94.2	2.7	3.0	49.5	75.6	19.3
IFSI 90-4	2	164.7	96.7	0.5	4.1	44.4	75.5	21.7
Mycogen 7860W	2	165.6	92.1	2.3	3.3	49.3	75.7	19.5
Mycogen 8360W	2	153.8	94.5	1.0	3.6	45.8	75.8	22.1
Northrup King N7580W	2	165.9	94.0	1.2	3.3	48.4	75.9	20.0
Pioneer Brand 3281W	2	161.6	95.1	0.5	2.3	44.8	76.4	19.1
Pioneer Brand 3287W	2	150.4	93.2	3.0	1.4	42.4	72.8	19.1
Sturdy Grow EXP 765W	2	162.1	93.8	1.0	4.5	46.5	74.8	18.9
Sturdy Grow SG777W	2	161.3	90.7	2.6	2.8	48.6	75.4	19.4
Sturdy Grow SG797W	2	164.6	94.5	2.0	3.3	48.4	76.0	20.2
Sturdy Grow SG798W	2	163.5	93.2	2.0	3.2	48.4	76.0	20.1
Sturdy Grow SG930W	2	154.3	93.1	0.8	3.9	45.5	76.3	22.9
Triumph 1910W	2	152.1	93.7	1.0	3.8	43.7	75.5	22.5
Vineyard V449W	2	148.1	93.5	1.5	3.8	42.8	75.6	19.9
Vineyard V453W	2	161.8	93.8	1.1	3.2	44.0	75.0	19.5
Whisnand 51AW	2	167.1	93.7	1.2	3.8	48.8	75.1	19.3
Whisnand 74W	2	155.3	94.8	0.6	2.1	47.3	77.6	20.7
Whisnand 92AW	2	154.5	94.3	0.9	3.5	45.1	76.3	22.5
Zimmerman Z16W	2	156.6	96.4	1.5	3.7	46.7	76.3	22.3
Zimmerman Z63W	2	163.5	95.9	1.9	4.1	51.3	78.5	22.1
Zimmerman Z64W	2	169.9	94.8	1.0	2.9	48.7	77.7	21.1
White check (K55 × CI66)FR802W	2	135.2	94.5	3.0	6.6	53.0	79.8	22.4
Yellow check B73 × Mo17	2	158.9	93.1	1.4	2.8	45.9	75.4	18.9
Yellow check Pioneer Brand 3245	2	174.6	96.7	0.6	3.2	40.8	76.1	18.5
Yellow check Pioneer Brand 3320	2	160.2	93.6	1.7	5.9	45.2	76.0	19.3
Mean		159.9	94.0	1.4	3.6	46.5	75.9	20.3

[†] Three entries entered in prior WFCPTs and the 1994 WFCPT do not show in the means across years because they were not entered in 1993: Ohlde 198W (entered in 1991, 1992, and 1994); Ohlde 1219W (entered in 1992 and 1994); and Vineyard V58W (entered in 1981-1992, and 1994).

Table 19. Yield and agronomic data from common entries in the 1992-1994 White Food Corn Performance Tests.

Entry	Years (no)	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Asgrow RX943W	3	171.0	94.4	0.8	4.6	49.0	76.6	20.7
Cargill 8097W	3	171.9	95.0	1.8	3.2	47.9	75.2	19.4
DeKalb Genetics DK703W	3	167.0	93.0	2.1	3.2	45.3	75.4	19.9
DeKalb Genetics EXP368W	3	171.5	91.7	2.0	3.6	49.6	75.6	19.4
DeKalb Genetics 739W	3	152.9	94.5	1.1	1.8	35.4	73.9	19.7
DeKalb Genetics 742W	3	151.4	93.8	0.5	3.1	35.5	73.9	19.8
Hoegemeyer 1125W	3	169.2	94.9	1.8	3.4	46.8	76.1	20.1
Hoegemeyer 1131W	3	164.0	92.4	1.5	2.6	48.3	75.8	19.6
Hoegemeyer 1142W	3	160.7	95.8	1.5	2.8	44.3	75.7	22.6
ICI Seeds 8122W	3	171.9	95.3	0.7	4.4	44.7	75.1	21.6
ICI Seeds 8320W	3	172.4	93.8	2.5	2.7	48.2	75.5	19.3
Northrup King N7580W	3	170.4	94.7	1.2	3.1	47.3	75.9	20.0
Pioneer Brand 3281W	3	167.2	95.7	0.8	2.1	43.5	76.4	19.4
Pioneer Brand 3287W	3	153.7	94.4	2.5	1.4	40.8	72.6	19.2
Sturdy Grow SG798W	3	169.0	93.8	1.8	3.1	47.0	75.8	20.1
Sturdy Grow SG930W	3	160.5	93.6	0.8	3.4	44.7	76.3	22.6
Triumph 1910W	3	159.1	94.9	0.9	3.1	42.7	75.3	22.4
Vineyard V449W	3	157.4	93.8	1.2	3.2	41.8	75.3	20.0
Whisnand 51AW	3	171.4	93.5	1.6	3.5	47.6	75.2	19.3
Whisnand 74W	3	160.9	95.0	0.6	1.7	46.0	77.3	20.7
Whisnand 92AW	3	161.4	95.2	1.2	2.9	44.0	76.2	22.4
Zimmerman Z16W	3	163.5	96.0	1.2	3.1	45.8	76.1	22.0
Zimmerman Z63W	3	170.8	95.5	2.0	3.4	49.8	78.1	21.6
White check (K55 × CI66)FR802W	3	145.2	94.0	2.4	6.6	50.8	79.3	22.1
Yellow check B73 × Mo17	3	161.4	93.9	2.5	2.7	44.4	75.0	18.9
Yellow check Pioneer Brand 3245	3	179.2	95.9	0.5	2.4	39.2	75.6	18.6
Yellow check Pioneer Brand 3320	3	164.0	93.3	1.7	5.5	43.6	75.7	19.4
Mean		164.4	94.4	1.4	3.2	45.0	75.7	20.4

Table 20. Yield and agronomic data from common entries in the 1991-1994 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	159.1	91.1	2.6	3.6	45.0	73.5	19.7
DeKalb Genetics 739W	4	148.6	94.6	1.1	2.5	34.8	71.9	19.5
Hoegemeyer 1142W	4	155.3	95.7	1.9	3.3	44.0	73.8	22.3
Northrup King N7580W	4	162.8	95.4	1.5	3.4	46.9	74.0	19.8
Pioneer Brand 3281W	4	160.6	94.8	0.7	2.4	43.2	74.3	19.1
Sturdy Grow SG798W	4	160.9	94.9	1.8	3.3	46.9	73.8	19.8
Triumph 1910W	4	152.9	94.9	1.3	3.6	42.7	73.5	22.2
Vineyard V449W	4	152.7	94.2	1.9	3.4	41.4	73.3	19.7
Whisnand 92AW	4	154.7	95.2	1.5	4.1	43.7	74.0	22.2
Zimmerman Z16W	4	155.7	95.8	1.1	3.7	45.4	74.1	21.6
Zimmerman Z63W	4	161.7	95.8	1.9	4.4	48.9	76.0	21.1
White check (K55 × CI66)FR802W	4	136.7	92.5	3.2	7.8	50.2	77.3	21.8
Yellow check B73 × Mo17	4	154.3	94.5	2.9	3.9	44.3	73.0	18.7
Yellow check Pioneer Brand 3245	4	173.2	94.5	0.7	2.6	39.2	73.5	18.4
Yellow check Pioneer Brand 3320	4	160.0	93.4	1.6	5.4	43.0	73.6	19.2
Mean		156.6	94.5	1.7	3.8	44.0	74.0	20.3

Table 21. Yield and agronomic data from common entries in the 1990-1994 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	155.5	92.1	2.2	4.6	44.8	74.4	19.6
Triumph 1910W	5	150.1	94.8	1.0	4.8	42.4	74.5	22.3
Whisnand 92AW	5	150.0	95.2	1.3	5.6	42.7	75.0	22.2
Zimmerman Z16W	5	152.6	95.8	1.3	4.8	44.4	75.0	21.5
Zimmerman Z63W	5	160.0	95.9	1.6	4.9	48.4	76.8	21.1
White check (K55 × CI66)FR802W	5	134.9	91.0	2.7	9.7	49.8	78.3	22.0
Yellow check B73 × Mo17	5	151.4	93.8	2.5	5.1	43.9	73.8	18.6
Yellow check Pioneer Brand 3320	5	157.1	93.2	1.4	5.7	42.6	74.6	19.2
Mean		151.4	94.0	1.8	5.6	44.9	75.3	20.8

Table 22. Combined grain quality data from the 1994 White Food Corn Performance Test grown at West Lafayette, IN; Lexington, KY; Columbia, MO; Knoxville, TN; and College Station, TX. For pericarp removal data, grain from West Lafayette, IN; Lexington, KY; Columbia, MO; and College Station, TX was used.

Entry	No.	Test weight [†] (lb/bu)	100-kernel weight (g)	Kernel size (cc)	Thins [‡] (%)	Kernel density (g/cc)	Horny endosp. (%)	Pericarp removal [§] (1-5)
<i>AgriGold XA3302W</i>	1	63.1	33.6	0.25	37.9	1.33	81	2.2
<i>Asgrow RX943W</i>	2	63.8 [¶]	32.2	0.24	48.4	1.34	89	2.8
<i>Asgrow X8983W</i>	3	64.7	34.4	0.25	32.9	1.35	85	2.7
<i>Bo-Jac 523W</i>	4	63.9	34.7	0.26	28.3	1.34	86	2.2
<i>Cargill 8097W</i>	5	63.2	35.2	0.26	24.8	1.34	85	2.8
<i>Cargill EXP 29003</i>	6	60.7	31.8	0.24	57.5	1.31	77	2.5
<i>Cargill EXP 29459</i>	7	63.1	33.3	0.25	44.8	1.34	85	3.2
<i>DeKalb Genetics DK703W</i>	8	63.3	39.9	0.30	16.4	1.35	87	2.6
<i>DeKalb Genetics 739W</i>	9	59.6	33.0	0.25	21.0	1.31	81	2.3
<i>DeKalb Genetics 742W</i>	10	59.6	34.0	0.26	19.0	1.32	79	3.2
<i>DeKalb Genetics EXP368W</i>	11	61.1	40.5	0.31	7.5	1.32	83	1.6
<i>Genetic Resources PR26101</i>	12	59.4	41.0	0.32	3.4	1.30	76	2.1
<i>Genetic Resources PR26113</i>	13	62.4	38.4	0.29	7.1	1.33	82	1.9
<i>Golden Harvest H-2633W</i>	14	62.5	36.4	0.27	21.3	1.32	86	2.5
<i>Golden Harvest H-2651W</i>	15	62.3 [¶]	36.8 [¶]	0.28 [¶]	19.7 [¶]	1.32 [¶]	84 [¶]	3.2
<i>Hoegemeyer 1125W</i>	16	62.8	33.1	0.25	40.8	1.34	83	3.0
<i>Hoegemeyer 1131W</i>	17	62.2	34.3	0.26	22.3	1.33	83	2.6
<i>Hoegemeyer 1142W</i>	18	63.9	35.3	0.26	29.1	1.34	88	3.8
<i>ICI Seeds 8122W</i>	19	62.2	36.2	0.27	17.8	1.32	86	3.4
<i>ICI Seeds 8320W</i>	20	63.9	35.9	0.26	34.6	1.34	85	2.3
<i>IFSI 90-4</i>	21	61.8	35.6	0.27	16.3	1.32	84	4.4
<i>IFSI 94-2</i>	22	62.3	38.3	0.29	16.4	1.31	85	3.6
<i>IFSI 94-3</i>	23	62.2	35.3	0.27	35.8	1.33	86	3.0
<i>Mycogen 7860W</i>	24	63.6	36.2	0.27	27.1	1.35	85	2.5
<i>Mycogen 8360W</i>	25	64.6	34.3	0.25	45.5	1.35	89	3.0
<i>Northrup King N7580W</i>	26	63.1	33.2	0.25	42.5	1.34	81	2.6
<i>Ohlde 197W</i>	27	62.9	33.6	0.25	39.1	1.34	80	2.6
<i>Ohlde 198W</i>	28	63.5	35.0	0.26	30.7	1.35	86	2.9
<i>Ohlde 1219W</i>	29	62.6	36.6	0.27	20.9	1.34	80	3.1
<i>Pioneer Brand 3281W</i>	30	63.0	35.2	0.26	15.7	1.34	86	2.8
<i>Pioneer Brand 3287W</i>	31	62.5	32.1	0.24	35.1	1.35	86	3.8
<i>Pioneer Brand X1183WB</i>	32	62.0	38.2	0.29	17.4	1.32	84	3.8
<i>Sturdy Grow SG777W</i>	33	63.3	37.7	0.28	18.3	1.34	83	2.3
<i>Sturdy Grow SG797W</i>	34	63.1	35.3	0.26	27.0	1.34	81	2.5
<i>Sturdy Grow SG798W</i>	35	62.8	33.7	0.25	40.9	1.34	81	2.9
<i>Sturdy Grow SG930W</i>	36	63.8	35.2	0.26	27.7	1.34	87	3.3
<i>Sturdy Grow EXP 765W</i>	37	61.8	30.5	0.24	48.9	1.33	78	2.9
<i>Tennessee EXP 94-1</i>	38	63.5	38.1	0.28	8.0	1.34	87	1.7
<i>Triumph 1910W</i>	39	64.1	35.3	0.26	31.3	1.34	89	2.3
<i>Vineyard V58W</i>	40	63.4	35.6	0.27	25.1	1.34	83	2.3
<i>Vineyard V453W</i>	41	61.7	35.4	0.27	27.9	1.33	80	1.9
<i>Vineyard V449W</i>	42	63.2 [¶]	32.7	0.24	28.3	1.35	89	1.6
<i>Vineyard Vx4483W</i>	43	62.5 [¶]	34.1	0.25	26.6	1.35	85	1.9
<i>Whisnand 51AW</i>	44	64.0	35.7	0.27	26.9	1.35	86	1.6
<i>Whisnand 74W</i>	45	62.7	36.3	0.27	20.6	1.33	82	1.6

Table 22. Continued.

Entry	No.	Test weight [†] (lb/bu)	100-kernel weight (g)	Kernel size (cc)	Thins [‡] (%)	Kernel density (g/cc)	Horny endosp. (%)	Pericarp removal [§] (1-5)
Whisnand 92AW	46	64.3	35.7	0.27	34.3	1.34	91	3.3
<i>Wilson 1780W</i>	47	61.1	32.5	0.25	17.8	1.32	78	2.1
<i>Wilson 1790W</i>	48	61.1	31.9	0.24	17.3	1.32	80	3.3
Zimmerman Z16W	49	62.0	35.7	0.27	16.0	1.34	87	3.3
<i>Zimmerman Z62W</i>	50	61.5	36.6	0.28	7.9	1.33	86	2.1
Zimmerman Z63W	51	62.1	33.5	0.25	14.4	1.34	88	2.6
Zimmerman Z64W	52	60.8	33.8	0.26	13.4	1.32	83	2.1
White check (K55 × CI66)FR802W	53	62.2	38.4	0.28	3.1	1.35	89	3.0
Yellow check Pioneer Brand 3245	54	62.8	38.1	0.28	21.4	1.34	90	1.9
Yellow check Pioneer Brand 3320	55	61.3	36.7	0.28	6.2	1.32	87	3.0
Yellow check B73 × Mo17	56	59.9	32.1	0.25	31.1	1.30	72	3.0
Mean		62.5	35.2	0.26	25.3	1.33	84	2.7
LSD 0.05		1.2	2.3	0.02	11.8	0.01	4	0.9
CV%		1.1	5.2	5.5	36.9	0.7	3.7	25.3

[†] Data from Columbia, MO, were not included for testweight measurement because of inadequate sample size for 13 entries.

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

[§] Rated on a scale in which 1 represents complete removal and 5 represents no removal.

[¶] Data missing from one location.

Table 23. Yield and agronomic data from the 1994 Early White Food Corn Performance Test at Champaign, IL. New entries for 1994 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
AgriGold A6565W	1	208.6	99.4	0.0	0.0	50.3	.	22.6
<i>Asgrow X8983W</i>	2	195.2	100.0	0.0	0.0	48.3	.	23.3
Bo-Jac 523W	3	196.5	100.0	1.1	0.0	54.0	.	21.5
Cargill 8097W	4	198.5	98.9	0.6	0.0	51.0	.	22.6
<i>Cargill EXP 79002</i>	5	202.2	96.1	0.0	0.0	46.3	.	23.5
DeKalb Genetics 555W	6	197.6	97.2	0.0	0.0	46.3	.	18.2
DeKalb Genetics 563W	7	204.7	92.8	0.0	0.0	44.3	.	17.3
DeKalb Genetics 739W	8	183.0	98.9	1.1	0.0	41.0	.	21.8
DeKalb Genetics 742W	9	190.5	97.2	2.3	0.0	40.3	.	20.6
<i>DeKalb Genetics EXP368W</i>	10	227.0	100.0	0.0	0.0	43.0	.	21.2
Hoegemeyer 1125W	11	201.4	99.4	0.0	0.0	53.3	.	23.4
Hoegemeyer 1131W	12	190.1	98.3	0.0	0.0	51.0	.	21.6
Hoegemeyer 1142W	13	174.6	100.0	0.0	0.0	46.0	.	27.7
ICI Seeds 8320W	14	214.9	99.4	1.1	0.0	51.3	.	22.6
IFSI 90-1	15	213.0	100.0	0.0	0.0	52.7	.	22.5
IFSI 93-4	16	210.8	95.6	0.0	0.0	43.3	.	22.2
<i>IFSI 94-1</i>	17	193.4	96.1	0.0	0.0	51.0	.	20.9
NC+ 6555W	18	231.7	97.8	0.0	0.0	51.7	.	23.2
<i>NC+ RE672W</i>	19	176.4	100.0	2.8	0.0	51.0	.	23.8
NobleBear NB571W	20	194.3	96.7	0.0	0.0	42.3	.	17.4
NobleBear NB710W	21	225.0	96.7	1.1	0.0	48.0	.	18.7
NobleBear NB739W	22	195.0	98.9	1.7	0.0	44.0	.	21.7
NobleBear NB742W	23	191.4	97.8	2.3	0.0	42.0	.	20.6
<i>Ohlde 197W</i>	24	205.7	100.0	0.0	2.2	51.0	.	22.9
Ohlde 198W	25	194.8	96.7	1.1	0.0	50.7	.	21.7
Ohlde 1219W	26	211.4	97.2	0.0	0.0	43.0	.	21.0
Pioneer Brand 3281W	27	200.8	95.6	0.0	0.0	48.3	.	20.4
Pioneer Brand 3287W	28	188.7	99.4	3.3	0.0	48.7 [†]	.	20.8
Pioneer Brand 3463W	29	186.5	98.3	1.2	0.0	47.3	.	17.8
<i>Pioneer Brand X1083WA</i>	30	208.9	97.2	4.0	0.0	49.0	.	18.6
<i>Pioneer Brand X1183WB</i>	31	216.9	98.3	0.0	0.0	49.3	.	23.3
Sturdy Grow SG745W	32	212.2	95.6	0.0	0.0	51.7	.	21.3
Sturdy Grow SG777W	33	204.6	95.0	0.0	0.0	53.7	.	22.5
Sturdy Grow SG797W	34	214.9	96.7	1.2	0.0	51.7	.	23.5
Sturdy Grow SG798W	35	208.8	98.3	1.1	0.0	46.3	.	22.9
Sturdy Grow EXP 731W	36	216.1	98.9	0.0	0.0	47.3	.	19.2
<i>Sturdy Grow EXP 765W</i>	37	197.7	99.4	0.6	0.0	49.3	.	20.1
Triumph 1429W	38	199.4	97.8	1.1	0.0	51.3	.	21.9
Vineyard V424W	39	196.5	97.2	0.0	0.0	49.7	.	21.3
Vineyard V438W	40	194.5	96.1	1.8	0.0	50.0	.	20.9
<i>Vineyard V442W</i>	41	202.4	98.3	7.4	0.0	47.3	.	22.4
Vineyard V449W	42	182.6	99.4	0.0	0.0	48.7	.	21.9
<i>Vineyard Vx4143W</i>	43	184.7	97.2	0.0	0.0	45.7	.	19.2
<i>Vineyard Vx4483W</i>	44	191.0	98.9	0.6	0.0	46.3	.	22.4
Whisnand 51AW	45	223.1	97.8	0.0	0.0	48.0	.	22.4

Table 23. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 74W	46	185.0	97.2	1.1	0.0	49.7	.	25.1
Whisnand 92AW	47	172.4	100.0	0.0	0.0	48.7	.	27.2
Wilson 1780W	48	212.0	98.9	1.1	0.0	44.0	.	22.5
Wilson 1790W	49	203.1	97.2	1.1	0.0	42.7	.	21.2
<i>Zimmerman Z62W</i>	50	205.5	95.0	0.0	0.0	50.3	.	23.7
Yellow check B73×Mo17	51	195.4	97.2	0.0	0.0	47.3	.	20.7
Mean		200.6	97.9	0.8	0.0	48.0	.	21.7
LSD 0.05		23.6	ns	2.9	0.4	ns		1.1
CV%		7.2		219.9	618.5			3.2

† Data from two replications.

Table 24. Yield and agronomic data from the 1994 Early White Food Corn Performance Test at Galesburg, IL. New entries for 1994 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
AgriGold A6565W	1	211.5	100.0	0.0	0.0	53.3	.	28.0
<i>Asgrow X8983W</i>	2	200.1	100.0	0.0	0.0	49.3	.	29.7
Bo-Jac 523W	3	221.3	100.0	0.0	0.6	52.0	.	27.5
Cargill 8097W	4	229.9	100.0	0.0	0.0	50.3	.	28.4
<i>Cargill EXP 79002</i>	5	217.6	100.0	0.0	0.0	51.0	.	29.3
DeKalb Genetics 555W	6	195.2	98.9	0.0	0.0	38.3	.	23.3
DeKalb Genetics 563W	7	191.9	93.9	0.0	1.8	42.0	.	22.8
DeKalb Genetics 739W	8	183.2	100.0	0.0	0.0	36.3	.	27.8
DeKalb Genetics 742W	9	187.5	99.4	0.0	2.8	39.0	.	26.6
<i>DeKalb Genetics EXP368W</i>	10	217.5	93.9	0.0	0.0	52.3	.	27.9
Hoegemeyer 1125W	11	224.0	100.0	0.0	0.0	51.0	.	29.5
Hoegemeyer 1131W	12	202.9	100.0	0.0	0.0	52.0	.	28.0
Hoegemeyer 1142W	13	194.1	100.0	0.0	0.6	45.7	.	32.2
ICI Seeds 8320W	14	202.3	100.0	0.0	0.0	49.0	.	28.3
IFSI 90-1	15	225.5	100.0	0.0	0.0	54.0	.	27.6
IFSI 93-4	16	212.5	98.9	0.0	0.0	48.3	.	29.6
<i>IFSI 94-1</i>	17	190.3	99.4	0.0	1.1	48.3	.	27.4
NC+ 6555W	18	208.3	100.0	1.1	0.6	49.7	.	29.0
<i>NC+ RE672W</i>	19	224.2	100.0	0.0	0.6	52.0	.	29.3
NobleBear NB571W	20	202.2	98.9	0.0	0.6	44.7	.	22.5
NobleBear NB710W	21	223.5	100.0	0.0	0.6	48.3	.	24.9
NobleBear NB739W	22	186.8	98.9	0.6	0.6	36.3	.	27.2
NobleBear NB742W	23	175.3	99.4	0.0	2.2	40.7	.	28.3
<i>Ohlde 197W</i>	24	224.3	100.0	0.0	0.0	50.3	.	28.6
Ohlde 198W	25	222.3	100.0	0.0	0.0	53.7	.	27.1
Ohlde 1219W	26	226.2	99.4	0.0	0.0	52.3	.	27.8
Pioneer Brand 3281W	27	205.7	100.0	0.0	0.0	47.7	.	26.7
Pioneer Brand 3287W	28	196.9	100.0	0.0	0.6	30.3	.	25.5
Pioneer Brand 3463W	29	193.0	100.0	0.0	0.6	45.3	.	24.0
<i>Pioneer Brand X1083WA</i>	30	196.0	100.0	0.0	0.0	49.0	.	24.0
<i>Pioneer Brand X1183WB</i>	31	241.3	100.0	0.0	2.2	51.7	.	27.9
Sturdy Grow SG745W	32	227.7	100.0	0.0	0.0	54.0	.	27.7
Sturdy Grow SG777W	33	211.0	95.0	0.0	0.0	51.7	.	28.4
Sturdy Grow SG797W	34	227.8	100.0	0.0	0.0	52.0	.	28.4
Sturdy Grow SG798W	35	212.4	100.0	0.0	1.7	53.0	.	29.3
Sturdy Grow EXP 731W	36	198.9	100.0	0.6	1.1	39.0	.	25.7
<i>Sturdy Grow EXP 765W</i>	37	219.3	100.0	0.0	0.0	48.0	.	25.9
Triumph 1429W	38	218.9	100.0	0.0	0.0	53.3	.	28.0
Vineyard V424W	39	212.4	100.0	0.0	0.0	48.3	.	27.9
Vineyard V438W	40	185.3	100.0	0.0	0.0	44.0	.	27.1
<i>Vineyard V442W</i>	41	199.7	100.0	0.0	2.8	44.3	.	27.4
Vineyard V449W	42	192.7	87.2	0.0	0.6	42.7	.	29.1
<i>Vineyard Vx4143W</i>	43	191.7	100.0	0.0	1.1	44.3	.	25.2
<i>Vineyard Vx4483W</i>	44	206.7	100.0	0.0	0.6	47.3	.	27.8
Whisnand 51AW	45	214.0	92.8	0.0	0.0	55.0	.	27.7

Table 24. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 74W	46	193.3	100.0	0.0	0.6	48.3	.	30.7
Whisnand 92AW	47	183.7	100.0	0.0	0.0	47.7	.	31.3
Wilson 1780W	48	220.0	100.0	0.0	0.0	48.3	.	29.5
Wilson 1790W	49	200.5	100.0	0.0	0.0	46.3	.	28.2
<i>Zimmerman Z62W</i>	50	211.2	99.4	0.0	0.0	47.0	.	29.4
Yellow check B73 × Mo17	51	211.8	100.0	0.0	0.0	50.3	.	27.1
Mean		207.3	99.1	0.0	0.5	47.6	.	27.6
LSD 0.05		23.0	4.7	ns	1.3	8.0		1.4
CV%		6.8	2.9		177.0	10.2		3.1

Table 25. Yield and agronomic data from the 1994 Early White Food Corn Performance Test at Wanatah, IN. New entries for 1994 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
AgriGold A6565W	1	178.3	95.5	0.0	1.4	50.8	.	26.8
<i>Asgrow X8983W</i>	2	162.8	91.0	0.0	1.0	45.8	.	29.1
Bo-Jac 523W	3	178.2	97.3	0.0	0.5	50.6	.	26.6
Cargill 8097W	4	187.1	97.3	0.0	0.9	50.0	.	26.4
<i>Cargill EXP 79002</i>	5	185.4	91.4	0.0	1.0	49.9	.	28.6
DeKalb Genetics 555W	6	134.8	86.9	0.0	7.7	32.8	.	20.1
DeKalb Genetics 563W	7	124.0	87.4	0.0	8.6	35.4	.	21.2
DeKalb Genetics 739W	8	152.3	94.6	1.9	0.5	34.7	.	27.7
DeKalb Genetics 742W	9	151.4	95.5	0.0	2.4	35.6	.	27.4
<i>DeKalb Genetics EXP368W</i>	10	159.1	90.5	0.0	3.0	52.4	.	27.1
Hoegemeyer 1125W	11	180.4	91.0	0.0	0.5	49.4	.	28.6
Hoegemeyer 1131W	12	181.1	97.7	0.0	1.4	50.0	.	27.5
Hoegemeyer 1142W	13	144.8	93.2	0.0	0.0	45.9	.	32.2
ICI Seeds 8320W	14	168.6	97.3	0.0	1.4	51.0	.	25.8
IFSI 90-1	15	181.5	98.2	0.0	1.4	52.6	.	23.6
IFSI 93-4	16	159.3	87.4	0.0	1.5	47.6	.	28.3
<i>IFSI 94-1</i>	17	163.0	89.2	0.0	1.5	45.2	.	23.7
NC+ 6555W	18	183.9	94.1	0.0	0.9	52.3	.	28.2
<i>NC+ RE672W</i>	19	182.9	94.6	0.0	0.0	51.6	.	28.7
NobleBear NB571W	20	127.5	96.4	0.0	4.7	36.4	.	19.9
NobleBear NB710W	21	176.0	95.0	0.0	3.3	45.6	.	22.9
NobleBear NB739W	22	148.9	91.9	0.5	2.0	33.3	.	28.3
NobleBear NB742W	23	133.2	86.0	0.0	1.6	32.9	.	28.0
<i>Ohlde 197W</i>	24	187.6	97.3	0.9	2.3	51.9	.	28.5
Ohlde 198W	25	182.2	96.8	0.5	0.0	51.7	.	26.4
Ohlde 1219W	26	197.4	95.9	0.0	0.0	58.0	.	25.9
Pioneer Brand 3281W	27	177.0	96.4	0.0	0.5	44.6	.	23.6
Pioneer Brand 3287W	28	159.5	95.5	1.4	1.4	41.9	.	26.1
Pioneer Brand 3463W	29	162.8	96.8	0.0	0.0	44.5	.	20.3
<i>Pioneer Brand X1083WA</i>	30	167.0	96.8	0.5	0.0	47.2	.	19.9
<i>Pioneer Brand X1183WB</i>	31	195.2	95.0	0.0	0.0	48.0	.	28.4
Sturdy Grow SG745W	32	183.5	98.2	0.0	0.5	51.5	.	27.6
Sturdy Grow SG777W	33	151.4	86.0	0.0	1.0	50.3	.	27.3
Sturdy Grow SG797W	34	186.2	96.8	0.0	0.9	49.4	.	28.5
Sturdy Grow SG798W	35	171.2	94.1	0.0	0.5	52.8	.	28.6
Sturdy Grow EXP 731W	36	163.5	99.5	0.0	0.9	39.9	.	24.8
<i>Sturdy Grow EXP 765W</i>	37	198.4	90.1	0.0	1.5	48.1	.	23.6
Triumph 1429W	38	173.3	93.7	0.0	0.0	53.3	.	26.9
Vineyard V424W	39	174.2	95.0	0.0	1.4	46.5	.	28.6
Vineyard V438W	40	150.7	91.0	0.0	1.4	41.2	.	27.8
<i>Vineyard V442W</i>	41	149.0	97.3	0.0	0.9	44.1	.	28.4
Vineyard V449W	42	166.5	90.1	0.0	2.0	45.9	.	28.5
<i>Vineyard Vx4143W</i>	43	156.3	95.9	0.0	3.3	43.5	.	22.1
<i>Vineyard Vx4483W</i>	44	178.6	95.5	0.5	1.9	45.0	.	28.1
Whisnand 51AW	45	169.1	91.0	0.0	1.0	52.3	.	25.3

Table 25. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 74W	46	174.9	96.8	0.5	0.5	48.6	.	29.8
Whisnand 92AW	47	158.7	93.2	0.0	1.0	47.7	.	31.3
Wilson 1780W	48	173.2	96.4	0.0	0.9	45.5	.	28.9
Wilson 1790W	49	168.3	91.4	0.0	1.5	43.4	.	28.5
<i>Zimmerman Z62W</i>	50	163.0	93.7	0.0	1.5	49.7	.	28.2
Yellow check B73 × Mo17	51	145.6	88.7	0.0	0.5	45.4	.	25.5
Mean		167.2	93.8	0.1	1.5	46.3	.	26.6
LSD 0.05		21.5	4.9	ns	3.1	4.8		1.1
CV%		7.9	3.2		129.0	6.4		2.4

Table 26. Yield and agronomic data from the 1994 Early White Food Corn Performance Test at Ogden, IA. New entries for 1994 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
AgriGold A6565W	1	196.4	80.0	11.3	4.4	.	.	21.6
<i>Asgrow X8983W</i>	2	173.0	87.3	2.5	3.0	.	.	25.2
Bo-Jac 523W	3	207.6	79.3	12.7	5.8	.	.	21.9
Cargill 8097W	4	198.4	79.3	8.5	3.9	.	.	22.2
<i>Cargill EXP 79002</i>	5	181.7	78.7	5.0	1.6	.	.	24.7
DeKalb Genetics 555W	6	164.7	79.3	5.2	4.2	.	.	17.9
DeKalb Genetics 563W	7	180.7	78.0	2.5	4.3	.	.	20.5
DeKalb Genetics 739W	8	162.1	85.3	11.6	5.7	.	.	22.6
DeKalb Genetics 742W	9	164.5	84.7	9.3	7.2	.	.	21.8
<i>DeKalb Genetics EXP368W</i>	10	173.1	69.3	9.4	3.3	.	.	23.8
Hoegemeyer 1125W	11	181.5	85.3	15.9	6.1	.	.	25.5
Hoegemeyer 1131W	12	178.2	84.0	3.0	2.4	.	.	23.5
Hoegemeyer 1142W	13	176.6	75.3	2.2	7.0	.	.	27.4
ICI Seeds 8320W	14	191.5	83.3	16.1	5.0	.	.	21.7
IFSI 90-1	15	204.1	82.0	31.4	4.1	.	.	22.8
IFSI 93-4	16	185.8	74.0	7.4	3.7	.	.	23.4
<i>IFSI 94-1</i>	17	192.7	77.3	10.5	6.9	.	.	22.0
NC+ 6555W	18	198.9	84.7	12.3	1.6	.	.	22.5
<i>NC+ RE672W</i>	19	179.7	84.0	3.8	4.7	.	.	23.5
NobleBear NB571W	20	169.5	86.7	3.9	8.4	.	.	18.7
NobleBear NB710W	21	184.2	75.3	7.0	6.4	.	.	20.0
NobleBear NB739W	22	170.9	76.7	1.6	7.3	.	.	20.2
NobleBear NB742W	23	182.0	78.7	2.8	6.5	.	.	23.8
<i>Ohlde 197W</i>	24	186.0	83.3	7.1	5.6	.	.	22.6
<i>Ohlde 198W</i>	25	191.1	89.3	13.9	4.4	.	.	21.8
Ohlde 1219W	26	188.0	88.0	21.3	6.0	.	.	23.1
Pioneer Brand 3281W	27	190.4	91.3	4.4	2.8	.	.	20.8
Pioneer Brand 3287W	28	174.2	86.0	3.8	2.3	.	.	19.5
Pioneer Brand 3463W	29	169.3	80.7	2.7	2.7	.	.	18.7
<i>Pioneer Brand X1083WA</i>	30	173.2	88.7	3.0	6.8	.	.	19.4
<i>Pioneer Brand X1183WB</i>	31	192.9	80.0	3.3	5.3	.	.	21.9
Sturdy Grow SG745W	32	202.2	77.3	7.7	6.9	.	.	22.4
Sturdy Grow SG777W	33	165.4	67.3	7.9	1.0	.	.	24.7
Sturdy Grow SG797W	34	181.0	76.0	17.4	1.8	.	.	23.4
Sturdy Grow SG798W	35	188.2	86.0	6.1	3.9	.	.	23.9
Sturdy Grow EXP 731W	36	174.4	85.3	1.6	5.7	.	.	19.7
<i>Sturdy Grow EXP 765W</i>	37	187.9	81.3	13.5	2.4	.	.	22.0
Triumph 1429W	38	174.1	82.7	2.3	1.6	.	.	22.4
Vineyard V424W	39	191.0	84.7	14.1	0.7	.	.	24.1
Vineyard V438W	40	170.6	77.3	0.0	3.6	.	.	21.8
<i>Vineyard V442W</i>	41	175.1	78.0	10.0	6.8	.	.	23.0
Vineyard V449W	42	177.4	68.0	5.5	3.6	.	.	23.4
<i>Vineyard Vx4143W</i>	43	181.5	84.7	7.1	5.5	.	.	19.8
<i>Vineyard Vx4483W</i>	44	194.3	86.7	3.8	1.5	.	.	24.9
Whisnand 51AW	45	189.3	80.7	6.5	5.3	.	.	20.7

Table 26. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 74W	46	174.9	82.7	0.0	1.6	.	.	26.4
Whisnand 92AW	47	171.4	81.3	4.7	3.4	.	.	27.7
Wilson 1780W	48	172.5	81.3	3.4	1.5	.	.	23.0
Wilson 1790W	49	195.6	75.3	2.5	1.8	.	.	24.5
<i>Zimmerman Z62W</i>	50	179.4	79.3	2.5	5.0	.	.	22.7
Yellow check B73 × Mo17	51	193.7	80.0	6.3	0.9	.	.	21.9
Mean		182.4	81.0	7.4	4.2	.	.	22.5
LSD 0.05		23.4	ns	ns	ns			4.1
CV%		7.9						11.1

Table 27. Yield and agronomic data from the 1994 Early White Food Corn Performance Test at Marion, IA. New entries for 1994 are shown in italics.

Entry	No.	Yield [†] (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
AgriGold A6565W	1	.	90.0	1.4	26.7	58.0	83.0	23.6
<i>Asgrow X8983W</i>	2	.	91.3	1.5	19.2	59.0	84.0	28.1
Bo-Jac 523W	3	.	91.3	9.4	46.9	53.3	82.3	23.2
Cargill 8097W	4	.	99.3	2.0	18.8	57.7	82.3	23.5
<i>Cargill EXP 79002</i>	5	.	82.0	4.3	37.1	63.7	84.0	26.9
DeKalb Genetics 555W	6	.	83.3	19.8	49.2	51.3	81.0	20.5
DeKalb Genetics 563W	7	.	73.3	0.0	65.0	51.3	81.0	21.9
DeKalb Genetics 739W	8	.	85.3	6.2	74.3	43.0	80.0	23.8
DeKalb Genetics 742W	9	.	95.3	4.8	63.6	46.3	80.7	24.3
<i>DeKalb Genetics EXP368W</i>	10	.	74.0	46.5	32.2	54.0	82.0	23.9
Hoegemeyer 1125W	11	.	94.0	2.1	35.5	57.0	83.3	27.1
Hoegemeyer 1131W	12	.	84.7	15.5	34.6	58.0	82.7	23.9
Hoegemeyer 1142W	13	.	94.7	6.2	15.5	58.0	83.7	34.0
ICI Seeds 8320W	14	.	94.0	17.9	19.5	55.7	83.3	23.0
IFSI 90-1	15	.	94.0	5.6	27.7	55.7	83.7	24.3
IFSI 93-4	16	.	78.7	5.0	31.6	54.3	83.0	24.4
<i>IFSI 94-1</i>	17	.	86.7	4.3	28.0	53.3	82.3	23.7
NC+ 6555W	18	.	85.3	5.4	39.1	61.7	83.7	24.9
<i>NC+ RE672W</i>	19	.	95.3	6.1	25.0	59.3	85.3	25.4
NobleBear NB571W	20	.	90.7	2.2	56.7	52.0	80.3	20.8
NobleBear NB710W	21	.	83.3	12.9	57.7	50.7	80.0	22.9
NobleBear NB739W	22	.	88.7	20.2	70.7	50.0	80.0	22.5
NobleBear NB742W	23	.	75.3	0.9	68.3	45.3	81.0	25.0
<i>Ohlde 197W</i>	24	.	90.7	10.3	34.9	57.0	84.0	25.6
Ohlde 198W	25	.	94.0	0.7	18.6	62.0	83.7	24.1
Ohlde 1219W	26	.	98.7	3.3	34.0	57.0	83.0	23.3
Pioneer Brand 3281W	27	.	92.0	6.6	43.5	53.7	83.0	23.6
Pioneer Brand 3287W	28	.	96.0	4.2	14.1	55.3	81.0	24.2
Pioneer Brand 3463W	29	.	86.0	5.8	35.1	51.7	79.3	20.2
<i>Pioneer Brand X1083WA</i>	30	.	94.7	0.7	43.6	55.7	80.3	19.9
<i>Pioneer Brand X1183WB</i>	31	.	90.7	1.5	30.7	50.0	84.0	25.3
Sturdy Grow SG745W	32	.	99.3	9.2	33.7	61.0	83.3	22.8
Sturdy Grow SG777W	33	.	80.0	16.4	30.0	53.3	83.3	24.7
Sturdy Grow SG797W	34	.	90.7	10.3	30.1	57.0	82.7	24.2
Sturdy Grow SG798W	35	.	94.7	26.8	40.3	52.7	83.3	23.8
Sturdy Grow EXP 731W	36	.	96.0	2.8	88.7	46.3	81.0	23.7
<i>Sturdy Grow EXP 765W</i>	37	.	95.3	6.7	48.9	53.3	82.0	23.5
Triumph 1429W	38	.	86.7	10.6	37.8	56.0	82.7	23.9
Vineyard V424W	39	.	87.3	9.9	26.9	57.0	82.0	27.2
Vineyard V438W	40	.	97.3	2.1	29.4	49.0	83.3	25.2
<i>Vineyard V442W</i>	41	.	88.7	3.7	50.0	50.0	81.3	26.2
Vineyard V449W	42	.	78.0	1.5	36.5	55.7	82.7	26.1
<i>Vineyard Vx4143W</i>	43	.	92.0	13.5	24.0	54.7	82.3	23.5
<i>Vineyard Vx4483W</i>	44	.	91.3	13.9	29.7	57.0	83.0	25.2
Whisnand 51AW	45	.	90.0	6.9	19.2	59.0	83.0	24.8

Table 27. Continued.

Entry	No.	Yield [†] (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 74W	46	.	92.0	8.9	38.5	55.0	85.0	31.4
Whisnand 92AW	47	.	94.7	11.4	15.0	58.0	84.0	31.4
Wilson 1780W	48	.	92.0	13.7	38.5	52.7	82.3	24.1
Wilson 1790W	49	.	94.0	4.2	42.4	55.3	82.7	26.3
<i>Zimmerman Z62W</i>	50	.	91.3	2.2	17.4	58.0	84.7	25.8
Yellow check B73 × Mo17	51	.	94.0	7.8	50.9	55.0	83.0	24.0
Mean		.	89.8	8.2	37.8	54.6	82.5	24.6
LSD 0.05			12.5	16.2	19.4	8.2	1.9	2.4
CV%			8.5	121.5	31.5	9.2	1.4	5.9

[†] A problem with grain hopper closure caused unknown losses for 46 plots and no data are reported.

Table 28. Yield and agronomic data from the 1994 Early White Food Corn Performance Test at St. Joseph, MO. New entries for 1994 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
AgriGold A6565W	1	213.3	100.0	49.4	0.0	.	.	20.6
<i>Asgrow X8983W</i>	2	211.8	100.0	56.0	0.0	.	.	19.3
Bo-Jac 523W	3	197.1	100.0	57.7	0.0	.	.	19.3
Cargill 8097W	4	229.5	100.0	31.5	0.0	.	.	19.3
<i>Cargill EXP 79002</i>	5	177.0	100.0	11.9	0.0	.	.	18.5
DeKalb Genetics 555W	6	188.9	100.0	54.2	0.0	.	.	21.4
DeKalb Genetics 563W	7	201.1	100.0	53.0	0.0	.	.	21.1
DeKalb Genetics 739W	8	192.4	100.0	44.0	0.0	.	.	19.1
DeKalb Genetics 742W	9	201.4	100.0	19.6	0.6	.	.	17.7
<i>DeKalb Genetics EXP368W</i>	10	213.2	100.0	50.0	0.0	.	.	20.9
Hoegemeyer 1125W	11	175.5	100.0	51.8	0.0	.	.	19.0
Hoegemeyer 1131W	12	218.9	100.0	43.5	0.0	.	.	19.3
Hoegemeyer 1142W	13	187.8	100.0	36.3	0.0	.	.	19.6
ICI Seeds 8320W	14	195.8	100.0	53.0	0.0	.	.	21.8
IFSI 90-1	15	219.6	100.0	34.5	0.0	.	.	19.8
IFSI 93-4	16	216.0	100.0	31.5	0.0	.	.	20.7
<i>IFSI 94-1</i>	17	199.1	100.0	45.8	0.0	.	.	17.5
NC+ 6555W	18	194.6	100.0	33.9	0.0	.	.	21.0
<i>NC+ RE672W</i>	19	197.9	100.0	44.0	0.0	.	.	21.5
NobleBear NB571W [†]	20	212.2	100.0	38.7	0.0	.	.	21.1
NobleBear NB710W	21	207.4	100.0	49.4	0.0	.	.	19.1
NobleBear NB739W	22	183.9	94.6	36.9	0.6	.	.	18.5
NobleBear NB742W	23	208.3	100.0	45.8	0.0	.	.	18.6
<i>Ohlde 197W</i>	24	217.4	100.0	70.8	0.0	.	.	23.6
<i>Ohlde 198W</i>	25	205.1	100.0	52.4	0.0	.	.	19.7
Ohlde 1219W	26	215.6	100.0	50.0	0.0	.	.	21.1
Pioneer Brand 3281W	27	192.9	100.0	58.3	0.0	.	.	21.9
Pioneer Brand 3287W [†]	28	204.3	100.0	64.3	0.0	.	.	21.5
Pioneer Brand 3463W	29	202.3	100.0	53.6	0.0	.	.	20.1
<i>Pioneer Brand X1083WA</i>	30	189.5	100.0	67.3	0.0	.	.	19.0
<i>Pioneer Brand X1183WB</i>	31	192.4	100.0	53.6	0.0	.	.	20.8
Sturdy Grow SG745W	32	216.1	100.0	39.3	0.6	.	.	19.3
Sturdy Grow SG777W	33	199.4	100.0	54.8	0.0	.	.	20.7
Sturdy Grow SG797W	34	214.1	100.0	45.8	0.0	.	.	19.5
Sturdy Grow SG798W	35	176.4	100.0	42.3	0.0	.	.	19.5
Sturdy Grow EXP 731W	36	200.2	100.0	45.8	0.0	.	.	19.3
<i>Sturdy Grow EXP 765W</i>	37	188.5	100.0	28.0	0.0	.	.	19.0
Triumph 1429W	38	232.8	100.0	33.3	0.0	.	.	21.5
Vineyard V424W	39	203.9	100.0	45.2	0.0	.	.	21.0
Vineyard V438W	40	197.5	100.0	27.4	0.0	.	.	21.0
<i>Vineyard V442W</i>	41	200.7	100.0	83.3	0.0	.	.	18.8
Vineyard V449W	42	207.1	100.0	73.2	0.0	.	.	17.8
<i>Vineyard Vx4143W</i>	43	177.3	100.0	60.7	0.0	.	.	19.3
<i>Vineyard Vx4483W</i>	44	219.2	100.0	42.3	0.0	.	.	22.0
Whisnand 51AW	45	182.2	100.0	58.9	0.0	.	.	19.1

Table 28. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 74W	46	181.0	100.0	58.9	0.0	.	.	19.3
Whisnand 92AW	47	194.7	100.0	39.3	0.0	.	.	18.7
Wilson 1780W	48	194.8	100.0	41.1	0.0	.	.	18.7
Wilson 1790W	49	193.6	100.0	50.0	0.0	.	.	19.7
<i>Zimmerman Z62W</i>	50	209.8	100.0	51.2	0.0	.	.	20.0
Yellow check B73×Mo17	51	213.1	100.0	17.3	0.0	.	.	20.1
Mean		201.3	99.9	46.7	0.0	.	.	19.9
LSD 0.05		ns	ns	ns	ns			2.9
CV%								9.0

† Data from two replications.

Table 29. Yield and agronomic data from the 1994 Early White Food Corn Performance Test at Clay Center, NE. New entries for 1994 are shown in italics. Clay Center was an irrigated location.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged [†] (%)	Ear height (in)	Days to flower (no)	Moist. (%)
AgriGold A6565W	1	130.3	97.1	.	14.3	.	.	16.5
<i>Asgrow X8983W</i>	2	130.7	95.1	.	5.6	.	.	18.6
Bo-Jac 523W	3	128.1	93.8	.	10.2	.	.	17.3
Cargill 8097W	4	140.1	100.8	.	7.3	.	.	16.7
<i>Cargill EXP 79002</i>	5	135.0	100.8	.	7.4	.	.	16.4
DeKalb Genetics 555W	6	78.9	94.7	.	28.1	.	.	15.1
DeKalb Genetics 563W	7	60.5	87.7	.	39.2	.	.	14.8
DeKalb Genetics 739W	8	143.7	97.5	.	7.6	.	.	17.1
DeKalb Genetics 742W	9	135.5	95.5	.	12.6	.	.	16.5
<i>DeKalb Genetics EXP368W</i>	10	117.2	93.4	.	8.8	.	.	17.0
Hoegemeyer 1125W	11	126.5	95.5	.	12.7	.	.	17.0
Hoegemeyer 1131W	12	113.1	94.2	.	12.3	.	.	17.1
Hoegemeyer 1142W	13	149.6	100.0	.	2.8	.	.	20.6
ICI Seeds 8320W	14	110.5	99.2	.	15.0	.	.	15.9
IFSI 90-1	15	128.4	99.2	.	15.6	.	.	16.7
IFSI 93-4	16	131.6	91.4	.	8.7	.	.	16.2
<i>IFSI 94-1</i>	17	108.1	92.6	.	30.2	.	.	15.4
NC+ 6555W	18	128.2	95.1	.	5.7	.	.	17.9
<i>NC+ RE672W</i>	19	146.9	102.1	.	10.6	.	.	17.5
NobleBear NB571W	20	80.6	93.0	.	18.5	.	.	14.8
NobleBear NB710W	21	54.5	92.2	.	56.6	.	.	13.7
NobleBear NB739W	22	148.6	97.5	.	6.7	.	.	16.8
NobleBear NB742W	23	148.2	94.7	.	6.5	.	.	16.7
<i>Ohlde 197W</i>	24	137.7	95.5	.	1.3	.	.	17.7
<i>Ohlde 198W</i>	25	111.6	98.4	.	7.1	.	.	15.6
Ohlde 1219W	26	106.9	100.8	.	12.4	.	.	17.0
Pioneer Brand 3281W	27	86.8	102.5	.	44.9	.	.	16.5
Pioneer Brand 3287W	28	76.7	100.4	.	50.0	.	.	17.3
Pioneer Brand 3463W	29	89.7	109.5	.	19.0	.	.	15.3
<i>Pioneer Brand X1083WA</i>	30	120.1	100.4	.	14.4	.	.	15.5
<i>Pioneer Brand X1183WB</i>	31	119.5	101.6	.	7.7	.	.	16.6
Sturdy Grow SG745W	32	122.1	97.1	.	10.2	.	.	15.9
Sturdy Grow SG777W	33	114.5	86.8	.	15.5	.	.	16.3
Sturdy Grow SG797W	34	138.1	97.1	.	10.5	.	.	17.5
Sturdy Grow SG798W	35	119.5	96.7	.	8.2	.	.	16.9
Sturdy Grow EXP 731W	36	124.7	100.8	.	24.2	.	.	16.8
<i>Sturdy Grow EXP 765W</i>	37	135.6	97.5	.	8.0	.	.	15.5
Triumph 1429W	38	126.2	99.6	.	9.0	.	.	16.7
Vineyard V424W	39	133.8	100.0	.	12.5	.	.	16.9
Vineyard V438W	40	126.0	92.6	.	17.6	.	.	16.7
<i>Vineyard V442W</i>	41	139.2	97.5	.	8.5	.	.	17.9
Vineyard V449W	42	147.3	97.1	.	5.6	.	.	18.5
<i>Vineyard Vx4143W</i>	43	102.9	100.4	.	18.8	.	.	16.7
<i>Vineyard Vx4483W</i>	44	129.5	99.6	.	10.6	.	.	17.7
Whisnand 51AW	45	123.1	100.8	.	10.6	.	.	16.6

Table 29. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged [†] (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 74W	46	130.2	97.9	.	9.2	.	.	17.8
Whisnand 92AW	47	142.1	98.4	.	2.9	.	.	20.7
Wilson 1780W	48	136.3	100.4	.	6.7	.	.	18.2
Wilson 1790W	49	145.7	98.4	.	0.8	.	.	17.6
<i>Zimmerman Z62W</i>	50	88.7	95.9	.	19.3	.	.	15.2
Yellow check B73 × Mo17	51	122.1	95.9	.	5.9	.	.	16.1
Mean		121.0	97.3	.	14.0	.	.	16.8
LSD 0.05		26.5	7.1		12.4			1.5
CV%		13.4	4.5		54.2			5.4

[†] Stalk lodging includes stalk breakage occurring in late JUN and 1JUL94 storms prior to flowering.

Table 30. Yield and agronomic data from the 1994 Early White Food Corn Performance Test at Knoxville, TN. New entries for 1994 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
AgriGold A6565W	1	198.0	98.2	0.0	0.0	53.6	71.3	19.8
<i>Asgrow X8983W</i>	2	197.6	96.4	0.0	0.0	52.8	73.0	21.0
Bo-Jac 523W	3	221.0	99.4	0.0	0.0	57.2	72.0	19.6
Cargill 8097W	4	223.6	101.8	0.0	0.0	56.8	72.3	19.6
<i>Cargill EXP 79002</i>	5	193.3	98.8	0.0	0.6	54.4	72.7	21.3
DeKalb Genetics 555W	6	170.9	92.9	0.0	0.0	41.2	69.0	16.5
DeKalb Genetics 563W	7	162.3	91.7	0.0	0.0	46.4	69.3	15.4
DeKalb Genetics 739W	8	186.4	100.6	0.0	0.6	39.6	70.0	19.9
DeKalb Genetics 742W	9	159.3	101.8	0.0	0.0	41.2	69.7	19.9
<i>DeKalb Genetics EXP368W</i>	10	195.9	84.5	0.0	0.0	58.0	71.3	20.4
Hoegemeyer 1125W	11	219.1	101.2	0.0	0.0	54.0	73.3	20.5
Hoegemeyer 1131W	12	205.7	99.4	0.0	0.0	56.0	71.3	19.8
Hoegemeyer 1142W	13	195.7	99.4	0.0	0.0	53.6	73.0	23.2
ICI Seeds 8320W	14	234.4	101.8	0.0	0.6	59.2	71.3	19.3
IFSI 90-1	15	215.7	100.6	0.0	0.0	55.6	72.3	19.7
IFSI 93-4	16	225.3	96.4	0.0	0.0	56.8	71.7	20.1
<i>IFSI 94-1</i>	17	214.5	97.6	0.0	0.0	52.4	70.3	19.0
NC+ 6555W	18	220.6	99.4	0.0	0.0	57.2	72.0	20.5
<i>NC+ RE672W</i>	19	206.1	99.4	0.0	0.0	51.6	72.0	20.6
NobleBear NB571W	20	210.0	100.6	0.0	0.6	46.4	69.0	15.7
NobleBear NB710W	21	202.2	98.2	0.0	1.2	54.4	70.0	16.4
NobleBear NB739W	22	194.4	98.8	0.0	0.0	38.4	69.3	19.9
NobleBear NB742W	23	171.7	99.4	0.0	0.0	39.6	70.7	19.4
<i>Ohlde 197W</i>	24	202.0	100.0	0.0	0.0	55.2	71.7	20.6
Ohlde 198W	25	216.4	99.4	0.0	0.0	56.8	71.3	19.7
Ohlde 1219W	26	220.3	100.6	0.0	0.0	61.2	71.3	19.1
Pioneer Brand 3281W	27	198.9	99.4	0.0	0.0	52.4	73.0	19.6
Pioneer Brand 3287W	28	163.5	85.7	0.0	0.0	49.6	67.0	18.9
Pioneer Brand 3463W	29	162.6	102.4	0.0	0.6	50.8	67.0	17.6
<i>Pioneer Brand X1083WA</i>	30	199.2	100.0	0.0	0.0	54.4	70.3	18.1
<i>Pioneer Brand X1183WB</i>	31	223.8	95.8	0.0	0.0	56.0	72.7	20.3
Sturdy Grow SG745W	32	218.5	99.4	0.0	0.0	54.8	71.7	19.6
Sturdy Grow SG777W	33	187.6	95.8	0.0	0.0	56.4	72.0	19.8
Sturdy Grow SG797W	34	205.8	97.6	0.0	0.0	50.4	72.3	21.0
Sturdy Grow SG798W	35	233.8	100.6	0.0	0.0	57.6	72.7	20.6
Sturdy Grow EXP 731W	36	180.9	103.6	0.0	0.0	45.6	69.7	17.4
<i>Sturdy Grow EXP 765W</i>	37	193.3	98.8	0.0	0.6	56.8	71.3	19.4
Triumph 1429W	38	200.9	100.6	0.0	0.0	56.0	71.3	19.0
Vineyard V424W	39	187.6	99.4	0.0	0.0	54.0	71.0	18.8
Vineyard V438W	40	195.2	100.6	0.0	0.0	48.0	70.3	18.4
<i>Vineyard V442W</i>	41	185.8	98.2	0.0	0.6	50.0	70.3	20.3
Vineyard V449W	42	187.1	101.2	0.0	0.0	51.2	71.0	19.3
<i>Vineyard Vx4143W</i>	43	179.2	98.8	0.0	0.0	49.2	70.3	17.5
<i>Vineyard Vx4483W</i>	44	191.3	100.0	0.0	0.0	50.8	71.0	19.8
Whisnand 51AW	45	219.3	98.8	0.0	0.0	56.0	71.7	20.2

Table 30. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 74W	46	211.3	98.8	0.0	0.0	56.4	73.0	20.3
Whisnand 92AW	47	210.0	102.4	0.0	0.0	54.4	73.0	23.7
Wilson 1780W	48	212.9	98.8	0.0	0.0	50.0	70.7	19.2
Wilson 1790W	49	202.0	94.0	0.0	0.0	51.2	70.3	18.6
<i>Zimmerman Z62W</i>	50	212.2	100.0	0.0	0.0	54.0	71.7	18.4
Yellow check B73 × Mo17	51	191.6	97.0	0.0	0.0	54.4	70.7	16.6
Mean		200.3	98.6	0.0	0.1	52.4	71.1	19.4
LSD 0.05		21.2	5.3	ns	ns	4.2	1.4	0.7
CV%		6.5	3.3			5.0	1.2	2.2

Table 31. Yield and agronomic data from the 1994 Early White Food Corn Performance Test at Springlake, TX. New entries for 1994 are shown in italics. Springlake was an irrigated location.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
AgriGold A6565W	1	198.6	88.3	.	.	55.4	73.0	14.2
<i>Asgrow X8983W</i>	2	215.5	88.9	.	.	65.8	72.7	16.9
Bo-Jac 523W	3	206.1	97.2	.	.	54.3	72.0	13.9
Cargill 8097W	4	208.0	92.2	.	.	56.4	72.7	14.5
<i>Cargill EXP 79002</i>	5	216.2	89.4	.	.	58.6	72.0	15.0
DeKalb Genetics 555W	6	154.5	92.2	.	.	47.6	71.7	12.2
DeKalb Genetics 563W	7	128.3	88.9	.	.	44.1	72.0	11.3
DeKalb Genetics 739W	8	153.8	99.4	.	.	57.1	71.7	14.6
DeKalb Genetics 742W	9	164.2	82.8	.	.	57.3	72.0	14.7
<i>DeKalb Genetics EXP368W</i>	10	210.5	90.6	.	.	59.5	71.7	15.3
Hoegemeyer 1125W	11	216.9	100.6	.	.	61.1	72.7	15.7
Hoegemeyer 1131W	12	210.5	91.1	.	.	56.4	73.0	14.5
Hoegemeyer 1142W	13	197.4	93.9	.	.	69.5	73.3	17.8
ICI Seeds 8320W	14	210.1	86.1	.	.	52.6	72.3	13.5
IFSI 90-1	15	210.8	91.1	.	.	57.1	71.7	14.6
IFSI 93-4	16	199.2	91.1	.	.	57.6	73.3	14.8
<i>IFSI 94-1</i>	17	186.9	97.8	.	.	49.9	72.3	12.8
NC+ 6555W	18	197.0	85.0	.	.	60.2	71.7	15.4
<i>NC+ RE672W</i>	19	205.4	80.0	.	.	59.0	71.7	15.1
NobleBear NB571W	20	115.4	85.6	.	.	44.5	73.0	11.4
NobleBear NB710W	21	156.4	78.3	.	.	48.9	72.7	12.5
NobleBear NB739W	22	141.0	101.1	.	.	54.9	72.0	14.1
NobleBear NB742W	23	151.4	86.1	.	.	56.8	73.0	14.6
<i>Ohlde 197W</i>	24	197.9	113.9	.	.	58.5	72.0	15.0
<i>Ohlde 198W</i>	25	198.9	91.7	.	.	57.6	73.0	14.8
Ohlde 1219W	26	212.0	75.0	.	.	54.5	71.3	14.0
Pioneer Brand 3281W	27	191.5	94.4	.	.	56.7	71.7	14.5
Pioneer Brand 3287W	28	173.1	78.9	.	.	54.1	70.3	13.9
Pioneer Brand 3463W	29	141.1	87.8	.	.	45.6	69.0	11.7
<i>Pioneer Brand X1083WA</i>	30	162.4	96.7	.	.	49.4	70.0	12.7
<i>Pioneer Brand X1183WB</i>	31	197.7	89.4	.	.	57.6	73.0	14.8
Sturdy Grow SG745W	32	201.4	78.9	.	.	55.2	73.0	14.2
Sturdy Grow SG777W	33	187.9	91.1	.	.	56.7	72.7	14.5
Sturdy Grow SG797W	34	203.8	95.0	.	.	57.3	72.7	14.7
Sturdy Grow SG798W	35	215.7	92.2	.	.	54.9	72.7	14.1
Sturdy Grow EXP 731W	36	155.9	95.6	.	.	52.9	72.0	13.6
<i>Sturdy Grow EXP 765W</i>	37	190.0	81.7	.	.	55.2	71.0	14.2
Triumph 1429W	38	205.7	90.0	.	.	56.5	73.7	14.5
Vineyard V424W	39	176.2	86.1	.	.	56.7	72.3	14.5
Vineyard V438W	40	170.4	108.3	.	.	59.3	72.0	15.2
<i>Vineyard V442W</i>	41	180.0	89.4	.	.	60.2	71.7	15.4
Vineyard V449W	42	165.1	95.0	.	.	55.4	72.7	14.2
<i>Vineyard Vx4143W</i>	43	154.1	82.2	.	.	52.6	72.0	13.5
<i>Vineyard Vx4483W</i>	44	175.5	87.2	.	.	57.6	72.0	14.8
Whisnand 51AW	45	188.9	90.0	.	.	56.2	72.3	14.4

Table 31. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)
Whisnand 74W	46	179.7	90.0	.	.	61.9	74.0	15.9
Whisnand 92AW	47	178.9	90.0	.	.	70.7	72.3	18.1
Wilson 1780W	48	189.7	88.3	.	.	64.5	71.0	16.5
Wilson 1790W	49	184.7	89.4	.	.	59.5	71.0	15.3
<i>Zimmerman Z62W</i>	50	193.5	87.2	.	.	58.8	74.7	15.1
Yellow check B73 × Mo17	51	204.5	92.8	.	.	56.5	73.7	14.5
Mean		184.9	90.3	.	.	72.2	72.3	14.5
LSD 0.05		27.5	ns			4.4	1.2	1.1
CV%		9.1				4.8	1.1	4.8

Table 32. Combined yield and agronomic data from seven northern locations of the 1994 Early White Food Corn Performance Test. New entries for 1994 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)	b _I (bu/a/I)	Std. devn. (bu/a)
AgriGold A6565W	1	189.7	94.6	10.4	6.7	53.1	83.0	22.8	0.98	3.8
<i>Asgrow X8983W</i>	2	178.9	95.0	10.0	4.1	50.6	84.0	24.8	0.88	8.9
Bo-Jac 523W	3	188.1	94.5	13.5	9.1	52.5	82.3	22.5	0.95	12.5
Cargill 8097W	4	197.3	96.5	7.1	4.4	52.3	82.3	22.7	0.97	11.5
<i>Cargill EXP 79002</i>	5	183.2	92.7	3.5	6.7	52.7	84.0	24.0	0.76	14.7
DeKalb Genetics 555W	6	160.0	91.5	13.2	12.7	42.2	81.0	19.5	1.42	6.0
DeKalb Genetics 563W	7	160.5	87.6	9.2	17.0	43.3	81.0	19.9	1.72	14.2
DeKalb Genetics 739W	8	169.4	94.5	10.8	12.6	38.8	80.0	22.9	0.54	9.4
DeKalb Genetics 742W	9	171.8	95.4	6.0	12.7	40.3	80.7	22.1	0.73	11.0
<i>DeKalb Genetics EXP368W</i>	10	184.5	88.7	17.6	6.8	50.4	82.0	23.1	1.26	12.5
Hoegemeyer 1125W	11	181.6	95.0	11.6	7.8	52.7	83.3	24.3	0.89	16.4
Hoegemeyer 1131W	12	180.7	94.1	10.3	7.3	52.8	82.7	23.0	1.06	13.1
Hoegemeyer 1142W	13	171.3	94.7	7.5	3.7	48.9	83.7	27.7	0.51	12.7
ICI Seeds 8320W	14	180.6	96.2	14.7	5.8	51.7	83.3	22.7	1.13	9.6
IFSI 90-1	15	195.3	96.2	11.9	7.0	53.7	83.7	22.5	1.11	4.1
IFSI 93-4	16	186.0	89.4	7.3	6.5	48.4	83.0	23.6	1.03	8.8
<i>IFSI 94-1</i>	17	174.4	91.6	10.1	9.7	49.5	82.3	21.5	1.03	10.6
NC+ 6555W	18	191.0	93.9	8.8	6.8	53.8	83.7	23.8	0.99	14.9
<i>NC+ RE672W</i>	19	184.7	96.6	9.4	5.8	53.5	85.3	24.3	0.65	16.0
NobleBear NB571W	20	164.4	94.6	7.5	12.7	43.8	80.3	19.3	1.54	12.2
NobleBear NB710W	21	178.4	91.8	11.7	17.8	48.2	80.0	20.3	1.93	14.5
NobleBear NB739W	22	172.4	92.5	10.2	12.5	40.9	80.0	22.2	0.53	11.0
NobleBear NB742W	23	173.1	90.3	8.6	12.2	40.2	81.0	23.0	0.60	22.0
<i>Ohlde 197W</i>	24	193.1	95.3	14.9	6.6	52.6	84.0	24.2	0.94	7.5
<i>Ohlde 198W</i>	25	184.5	96.5	11.4	4.3	54.5	83.7	22.3	1.14	10.4
Ohlde 1219W	26	190.9	97.2	12.4	7.5	52.6	83.0	22.7	1.29	12.9
Pioneer Brand 3281W	27	175.6	96.8	11.5	13.1	48.6	83.0	21.9	1.32	13.6
Pioneer Brand 3287W	28	166.7	96.8	12.8	9.8	44.0	81.0	22.1	1.42	9.4
Pioneer Brand 3463W	29	167.3	95.9	10.5	8.2	47.2	79.3	19.5	1.23	9.1
<i>Pioneer Brand X1083WA</i>	30	175.8	96.8	12.6	9.3	50.2	80.3	19.5	0.93	8.5
<i>Pioneer Brand X1183WB</i>	31	193.0	95.1	9.7	6.6	49.7	84.0	23.5	1.16	17.6
Sturdy Grow SG745W	32	194.0	95.4	9.4	7.4	54.5	83.3	22.4	1.17	5.1
Sturdy Grow SG777W	33	174.4	87.2	13.2	6.8	52.2	83.3	23.5	1.13	9.2
Sturdy Grow SG797W	34	193.7	93.9	12.5	6.2	52.5	82.7	23.6	0.98	8.8
Sturdy Grow SG798W	35	179.4	95.7	12.7	7.8	51.2	83.3	23.5	0.97	13.7
Sturdy Grow EXP 731W	36	179.6	97.2	8.5	17.2	43.1	81.0	21.3	0.98	10.0
<i>Sturdy Grow EXP 765W</i>	37	187.9	94.8	8.1	8.7	49.7	82.0	21.4	0.76	14.6
Triumph 1429W	38	187.4	94.3	7.9	6.9	53.5	82.7	23.1	1.11	14.7
Vineyard V424W	39	185.3	94.9	11.5	5.9	50.4	82.0	23.9	0.87	4.2
Vineyard V438W	40	170.8	93.5	5.2	7.4	46.1	83.3	22.9	0.83	8.7
<i>Vineyard V442W</i>	41	177.7	94.3	17.4	9.9	46.4	81.3	23.4	0.80	11.6
<i>Vineyard V449W</i>	42	178.9	88.6	13.4	6.9	48.2	82.7	23.6	0.58	9.5
<i>Vineyard Vx4143W</i>	43	165.7	95.7	13.5	7.5	47.1	82.3	20.8	0.99	8.7
<i>Vineyard Vx4483W</i>	44	186.6	96.0	10.2	6.3	48.9	83.0	24.0	0.91	10.7
Whisnand 51AW	45	183.5	93.3	12.1	5.2	53.6	83.0	22.4	1.02	14.9

Table 32. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist. (%)	b_I (bu/a/I)	Std. devn. (bu/a)
Whisnand 74W	46	173.2	95.2	11.6	7.2	50.4	85.0	25.8	0.66	6.4
Whisnand 92AW	47	170.5	95.4	9.2	3.2	50.5	84.0	26.9	0.52	8.4
Wilson 1780W	48	184.8	95.6	9.9	6.8	47.6	82.3	23.6	0.89	11.2
Wilson 1790W	49	184.5	93.8	9.6	6.6	46.9	82.7	23.7	0.67	7.1
<i>Zimmerman Z62W</i>	50	176.3	93.5	9.3	6.2	51.2	84.7	23.6	1.44	3.9
Yellow check B73×Mo17	51	180.3	93.7	5.2	8.3	49.5	83.0	22.2	1.10	13.6
Mean		180.0	94.1	10.5	8.3	49.2	82.5	22.8	1.00	10.9
LSD 0.05		16.9	3.4	ns	ns	4.2	1.9	1.5	0.16	
CV%		9.0	5.2			9.3	1.4	6.2		
Location means:										
Champaign, IL		200.6	97.9	0.8	0.0	48.0	.	21.7		
Galesburg, IL		207.3	99.1	0.0	0.5	47.6	.	27.6		
Wanatah, IN		167.2	93.8	0.1	1.5	46.3	.	26.6		
Ogden, IA		182.4	81.0	7.4	4.2	.	.	22.5		
Marion, IA		.	89.8	8.2	37.8	54.6	82.5	24.6		
St. Joseph, MO		201.3	99.9	46.7	0.0	.	.	19.9		
Clay Center, NE [†]		121.0	97.3	.	14.0	.	.	16.8		

[†] Irrigated location.

Table 33. Yield (bu/a) data from six northern locations of the 1994 Early White Food Corn Performance Test. Yield data from Marion, IA, were not able to be used. New entries for 1994 are shown in italics.

Entry	No.	Cham- paign, IL	Gales- burg, IL	Wana- tah, IN	Ames, IA	St. Joseph, MO	Clay Center, NE [†]	Com- bined
AgriGold A6565W	1	208.6	211.5	178.3	196.4	213.3	130.3	189.7
<i>Asgrow X8983W</i>	2	195.2	200.1	162.8	173.0	211.8	130.7	178.9
Bo-Jac 523W	3	196.5	221.3	178.2	207.6	197.1	128.1	188.1
Cargill 8097W	4	198.5	229.9	187.1	198.4	229.5	140.1	197.3
<i>Cargill EXP 79002</i>	5	202.2	217.6	185.4	181.7	177.0	135.0	183.2
DeKalb Genetics 555W	6	197.6	195.2	134.8	164.7	188.9	78.9	160.0
DeKalb Genetics 563W	7	204.7	191.9	124.0	180.7	201.1	60.5	160.5
DeKalb Genetics 739W	8	183.0	183.2	152.3	162.1	192.4	143.7	169.4
DeKalb Genetics 742W	9	190.5	187.5	151.4	164.5	201.4	135.5	171.8
<i>DeKalb Genetics EXP368W</i>	10	227.0	217.5	159.1	173.1	213.2	117.2	184.5
Hoegemeyer 1125W	11	201.4	224.0	180.4	181.5	175.5	126.5	181.6
Hoegemeyer 1131W	12	190.1	202.9	181.1	178.2	218.9	113.1	180.7
Hoegemeyer 1142W	13	174.6	194.1	144.8	176.6	187.8	149.6	171.3
ICI Seeds 8320W	14	214.9	202.3	168.6	191.5	195.8	110.5	180.6
IFSI 90-1	15	213.0	225.5	181.5	204.1	219.6	128.4	195.3
IFSI 93-4	16	210.8	212.5	159.3	185.8	216.0	131.6	186.0
<i>IFSI 94-1</i>	17	193.4	190.3	163.0	192.7	199.1	108.1	174.4
NC+ 6555W	18	231.7	208.3	183.9	198.9	194.6	128.2	191.0
<i>NC+ RE672W</i>	19	176.4	224.2	182.9	179.7	197.9	146.9	184.7
NobleBear NB571W	20	194.3	202.2	127.5	169.5	212.2	80.6	164.4
NobleBear NB710W	21	225.0	223.5	176.0	184.2	207.4	54.5	178.4
NobleBear NB739W	22	195.0	186.8	148.9	170.9	183.9	148.6	172.4
NobleBear NB742W	23	191.4	175.3	133.2	182.0	208.3	148.2	173.1
<i>Ohlde 197W</i>	24	205.7	224.3	187.6	186.0	217.4	137.7	193.1
Ohlde 198W	25	194.8	222.3	182.2	191.1	205.1	111.6	184.5
Ohlde 1219W	26	211.4	226.2	197.4	188.0	215.6	106.9	190.9
Pioneer Brand 3281W	27	200.8	205.7	177.0	190.4	192.9	86.8	175.6
Pioneer Brand 3287W	28	188.7	196.9	159.5	174.2	204.3	76.7	166.7
Pioneer Brand 3463W	29	186.5	193.0	162.8	169.3	202.3	89.7	167.3
<i>Pioneer Brand X1083WA</i>	30	208.9	196.0	167.0	173.2	189.5	120.1	175.8
<i>Pioneer Brand X1183WB</i>	31	216.9	241.3	195.2	192.9	192.4	119.5	193.0
Sturdy Grow SG745W	32	212.2	227.7	183.5	202.2	216.1	122.1	194.0
Sturdy Grow SG777W	33	204.6	211.0	151.4	165.4	199.4	114.5	174.4
Sturdy Grow SG797W	34	214.9	227.8	186.2	181.0	214.1	138.1	193.7
Sturdy Grow SG798W	35	208.8	212.4	171.2	188.2	176.4	119.5	179.4
Sturdy Grow EXP 731W	36	216.1	198.9	163.5	174.4	200.2	124.7	179.6
<i>Sturdy Grow EXP 765W</i>	37	197.7	219.3	198.4	187.9	188.5	135.6	187.9
Triumph 1429W	38	199.4	218.9	173.3	174.1	232.8	126.2	187.4
Vineyard V424W	39	196.5	212.4	174.2	191.0	203.9	133.8	185.3
Vineyard V438W	40	194.5	185.3	150.7	170.6	197.5	126.0	170.8
<i>Vineyard V442W</i>	41	202.4	199.7	149.0	175.1	200.7	139.2	177.7
Vineyard V449W	42	182.6	192.7	166.5	177.4	207.1	147.3	178.9
<i>Vineyard Vx4143W</i>	43	184.7	191.7	156.3	181.5	177.3	102.9	165.7
<i>Vineyard Vx4483W</i>	44	191.0	206.7	178.6	194.3	219.2	129.5	186.6
Whisnand 51AW	45	223.1	214.0	169.1	189.3	182.2	123.1	183.5

Table 33. Continued.

Entry	No.	Cham- paign, IL	Gales- burg, IL	Wana- tah, IN	Ames, IA	St. Joseph, MO	Clay Center, NE [†]	Com- bined
Whisnand 74W	46	185.0	193.3	174.9	174.9	181.0	130.2	173.2
Whisnand 92AW	47	172.4	183.7	158.7	171.4	194.7	142.1	170.5
Wilson 1780W	48	212.0	220.0	173.2	172.5	194.8	136.3	184.8
Wilson 1790W	49	203.1	200.5	168.3	195.6	193.6	145.7	184.5
<i>Zimmerman Z62W</i>	50	205.5	211.2	163.0	179.4	209.8	88.7	176.3
Yellow check B73 × Mo17	51	195.4	211.8	145.6	193.7	213.1	122.1	180.3
Mean		200.6	207.3	167.2	182.4	201.3	121.0	180.0
LSD 0.05		23.6	23.0	21.5	23.4	ns	26.5	16.9
CV%		7.2	6.8	7.9	7.9		13.4	9.0

[†] Irrigated location.

Table 34. Combined European corn borer whorl-leaf feeding and stalk tunneling data from Columbia and Novelty, MO, for the 1994 Early White Food Corn Performance Test. New entries for 1994 are shown in italics.

Entry	No.	Leaf feeding (1-9)	No. of tunnels (no)	Tunnel length (in)
AgriGold A6565W	1	4.7	1.3	1.7
<i>Asgrow X8983W</i>	2	3.7	1.5	2.0
Bo-Jac 523W	3	3.5	1.6	2.0
Cargill 8097W	4	3.7	1.5	1.9
<i>Cargill EXP 79002</i>	5	4.2	1.4	1.6
DeKalb Genetics 555W	6	3.3	1.2	1.3
DeKalb Genetics 563W	7	3.5	1.7	2.0
DeKalb Genetics 739W	8	4.0	1.7	1.9
DeKalb Genetics 742W	9	3.5	1.7	1.9
<i>DeKalb Genetics EXP368W</i>	10	5.3	1.5	1.5
Hoegemeyer 1125W	11	3.7	1.9	2.2
Hoegemeyer 1131W	12	4.0	1.8	2.3
Hoegemeyer 1142W	13	3.3	1.1	1.2
ICI Seeds 8320W	14	3.5	1.5	1.9
IFSI 90-1	15	3.5	2.2	2.6
IFSI 93-4	16	3.3	1.7	2.3
<i>IFSI 94-1</i>	17	4.2	1.6	1.7
NC+ 6555W	18	3.7	1.9	2.4
<i>NC+ RE672W</i>	19	4.2	3.1	3.4
NobleBear NB571W	20	3.7	1.1	1.4
NobleBear NB710W	21	4.8	1.3	1.4
NobleBear NB739W	22	4.2	1.3	1.6
NobleBear NB742W	23	4.2	2.2	2.6
<i>Ohlde 197W</i>	24	4.0	1.4	2.0
Ohlde 198W	25	4.5	2.0	2.4
Ohlde 1219W	26	4.5	1.7	2.0
Pioneer Brand 3281W	27	3.2	1.0	1.2
Pioneer Brand 3287W	28	4.0	1.2	1.6
Pioneer Brand 3463W	29	4.0	1.4	1.6
<i>Pioneer Brand X1083WA</i>	30	2.7	1.5	1.7
<i>Pioneer Brand X1183WB</i>	31	3.5	2.6	3.2
Sturdy Grow SG745W	32	4.8	1.9	2.3
Sturdy Grow SG777W	33	3.3	1.5	1.7
Sturdy Grow SG797W	34	3.8	1.8	2.1
Sturdy Grow SG798W	35	4.0	1.7	2.1
Sturdy Grow EXP 731W	36	3.8	1.4	1.5
<i>Sturdy Grow EXP 765W</i>	37	4.7	1.7	2.3
Triumph 1429W	38	4.3	1.7	2.1
Vineyard V424W	39	3.8	1.2	1.5
Vineyard V438W	40	4.5	1.3	1.6
<i>Vineyard V442W</i>	41	3.7	1.9	2.1
Vineyard V449W	42	2.5	1.1	1.2
<i>Vineyard Vx4143W</i>	43	3.0	1.9	2.2
<i>Vineyard Vx4483W</i>	44	3.7	1.7	2.0
Whisnand 51AW	45	3.5	2.4	2.6

Table 34. Continued.

Entry	No.	Leaf feeding (1-9)	No. of tunnels (no)	Tunnel length (in)
Whisnand 74W	46	4.7	1.5	1.8
Whisnand 92AW	47	3.2	0.9	1.0
Wilson 1780W	48	6.2	1.4	1.5
Wilson 1790W	49	5.3	1.3	1.6
<i>Zimmerman Z62W</i>	50	2.2	1.3	1.8
Yellow check B73 × Mo17	51	4.2	1.5	1.6
Susceptible check (Ki3)		5.5	2.0	2.5
Susceptible check (Wf9 × W182E)		5.5	2.1	2.5
Resistant check (Pioneer Brand 3184)		3.2	0.8	1.0
Mean		3.9	1.6	1.9
LSD 0.05 [†]		1.1	0.9	1.1
CV%		24.5	47.1	50.7

[†] Pooled error mean square used for testing differences among genotypes.

Table 35. Yield and agronomic data from common entries in the 1993-1994 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. (%)
Bo-Jac 523W	2	158.2	94.4	7.5	6.4	53.6	83.5	22.0
Cargill 8097W	2	164.9	95.9	4.1	3.5	53.3	83.5	22.2
DeKalb Genetics 555W	2	143.6	92.3	7.9	7.2	44.1	80.0	19.8
DeKalb Genetics 563W	2	141.7	86.7	5.5	10.8	43.7	80.2	20.2
DeKalb Genetics 739W	2	147.3	94.9	6.8	7.4	39.3	79.2	23.2
DeKalb Genetics 742W	2	149.2	94.2	3.2	9.5	40.8	79.9	22.6
Hoegemeyer 1125W	2	157.8	95.1	7.0	5.7	53.3	83.8	23.9
Hoegemeyer 1131W	2	148.2	93.2	5.7	5.8	54.0	83.7	22.8
Hoegemeyer 1142W	2	153.1	95.8	5.7	4.9	50.4	84.5	27.8
ICI Seeds 8320W	2	154.3	95.4	7.8	5.1	53.3	84.5	22.5
IFSI 90-1	2	162.1	95.6	6.6	5.1	52.9	84.0	22.3
IFSI 93-4	2	151.5	92.2	5.3	6.6	50.7	82.2	21.9
NobleBear NB710W	2	157.0	91.5	8.4	12.2	49.5	79.7	20.7
NobleBear NB739W	2	146.8	92.9	6.3	7.9	41.8	79.4	22.6
NobleBear NB742W	2	148.6	91.5	4.8	8.9	42.8	80.0	23.3
NC+ 6555W	2	161.5	94.1	5.3	5.4	54.6	84.7	23.6
Ohlde 1219W	2	155.7	97.0	6.9	6.2	53.3	83.9	22.9
Ohlde 198W	2	156.6	96.0	6.8	4.9	54.3	83.9	22.0
Pioneer Brand 3281W	2	151.3	95.8	6.9	8.0	49.2	83.7	22.3
Pioneer Brand 3287W	2	147.3	93.1	10.7	6.5	46.5	79.9	22.3
Pioneer Brand 3463W	2	144.0	95.1	5.8	5.0	47.6	78.2	19.4
Sturdy Grow EXP 731W	2	155.4	96.3	4.4	10.2	43.7	80.7	22.1
Sturdy Grow SG745W	2	160.3	95.3	5.6	5.9	54.2	84.5	22.4
Sturdy Grow SG777W	2	151.1	90.1	7.1	5.8	52.4	83.7	22.7
Sturdy Grow SG797W	2	160.9	94.7	7.4	5.7	52.4	84.0	23.5
Sturdy Grow SG798W	2	156.3	95.0	7.1	7.3	52.5	84.2	23.7
Triumph 1429W	2	154.3	92.1	5.4	4.9	54.2	83.7	22.8
Vineyard V424W	2	159.1	95.4	7.0	5.1	52.2	83.7	23.8
Vineyard V438W	2	145.3	94.3	4.5	5.4	48.3	83.2	23.1
Vineyard V449W	2	150.5	92.1	8.4	5.5	47.1	83.7	23.8
Whisnand 51AW	2	154.3	93.2	7.6	4.8	54.8	84.2	22.1
Whisnand 74W	2	148.7	95.9	6.1	5.7	49.9	85.9	25.6
Whisnand 92AW	2	151.1	96.8	5.4	3.9	51.3	84.0	27.3
Wilson 1780W	2	162.0	95.8	7.0	4.5	49.7	83.3	24.3
Wilson 1790W	2	164.2	96.1	5.6	5.5	48.4	83.4	24.0
Yellow check B73×Mo17	2	151.2	94.4	3.2	6.5	50.4	84.0	22.3
Mean		153.5	94.1	6.3	6.3	49.7	82.7	22.9

[†] Two entries entered in prior EWFCPTs and the 1994 EWFCPT do not show in the means across years because they were not entered in 1993: AgriGold A6565W (entered in 1991, 1992, and 1994) and NobleBear NB571W (entered in 1986-1992, and 1994).

Table 36. Yield and agronomic data from common entries in the 1992-1994 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. (%)
Cargill 8097W	3	168.4	95.4	2.9	3.4	52.1	85.2	23.9
DeKalb Genetics 555W	3	148.0	93.6	5.7	5.1	41.7	80.9	21.3
DeKalb Genetics 563W	3	150.1	89.7	4.0	8.2	41.8	80.7	21.9
DeKalb Genetics 742W	3	152.1	94.6	2.2	8.3	39.3	80.9	24.8
Hoegemeyer 1125W	3	164.4	95.1	4.8	5.6	52.0	85.6	25.8
Hoegemeyer 1131W	3	159.2	94.2	3.9	5.1	53.6	85.2	24.3
Hoegemeyer 1142W	3	153.8	96.0	3.8	5.0	49.1	86.6	29.4
ICI Seeds 8320W	3	164.5	96.0	5.3	4.5	52.3	86.0	24.3
IFSI 90-1	3	167.5	95.5	4.5	4.5	52.5	85.6	23.9
NobleBear NB710W	3	165.1	92.6	5.9	10.1	47.1	80.8	22.6
NobleBear NB742W	3	151.7	92.8	3.3	7.9	40.6	81.0	25.2
NC+ 6555W	3	168.5	94.9	3.8	5.3	52.8	86.4	25.5
Pioneer Brand 3281W	3	154.8	96.0	4.9	5.7	47.8	85.2	24.4
Pioneer Brand 3287W	3	153.0	94.6	7.6	4.7	45.5	80.7	24.0
Pioneer Brand 3463W	3	144.9	94.3	4.2	3.5	45.6	79.1	21.1
Sturdy Grow SG745W	3	162.7	95.6	3.8	5.0	53.8	86.2	24.6
Sturdy Grow SG777W	3	158.5	92.1	4.9	5.3	51.6	85.3	24.6
Sturdy Grow SG797W	3	168.3	95.2	5.0	5.7	51.3	86.0	25.6
Sturdy Grow SG798W	3	163.8	95.1	4.8	6.7	51.7	85.5	25.7
Vineyard V424W	3	162.2	95.3	4.8	4.0	50.1	84.7	25.7
Vineyard V449W	3	157.4	93.7	5.6	5.3	46.3	85.2	25.9
Whisnand 51AW	3	163.2	94.3	5.3	4.1	53.3	85.7	24.0
Whisnand 74W	3	151.7	96.2	4.2	4.8	49.6	87.1	27.8
Whisnand 92AW	3	153.8	97.0	3.6	3.7	50.7	85.9	29.2
Yellow check B73 × Mo17	3	161.1	95.3	2.4	5.3	49.5	85.6	24.1
Mean		158.8	94.6	4.4	5.5	48.9	84.3	24.8

Table 37. Yield and agronomic data from common entries in the 1991-1994 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. (%)
Cargill 8097W	4	164.6	96.1	2.5	4.1	51.4	80.9	23.2
DeKalb Genetics 563W	4	150.2	91.7	3.4	7.8	40.9	76.9	21.0
DeKalb Genetics 742W	4	150.6	95.6	2.0	8.4	38.3	77.2	23.8
Hoegemeyer 1142W	4	148.9	95.9	3.1	4.6	47.6	82.5	28.1
IFSI 90-1	4	163.3	96.7	3.5	5.1	51.6	81.4	23.3
NobleBear NB710W	4	161.3	92.8	5.1	9.8	45.8	76.8	21.9
NobleBear NB742W	4	150.3	94.2	2.8	8.1	39.3	77.3	24.2
NC+ 6555W	4	163.8	95.6	3.2	5.4	51.3	82.3	24.8
Pioneer Brand 3281W	4	150.5	96.5	3.7	5.4	46.9	81.6	23.4
Pioneer Brand 3463W	4	142.9	95.1	3.4	3.9	44.4	75.7	20.6
Sturdy Grow SG745W	4	156.8	96.5	3.1	5.3	52.2	81.9	23.6
Sturdy Grow SG798W	4	160.1	96.3	3.8	6.7	50.3	82.0	25.0
Vineyard V424W	4	157.9	96.4	4.1	4.2	49.1	80.6	24.8
Vineyard V449W	4	156.2	95.3	5.4	5.2	45.9	81.1	25.0
Whisnand 51AW	4	159.0	95.5	4.1	4.5	51.7	81.3	23.5
Whisnand 92AW	4	149.0	96.5	2.9	3.6	48.9	82.2	28.0
Yellow check B73×Mo17	4	155.1	95.9	2.0	5.9	48.2	81.4	23.2
Mean		155.3	95.4	3.4	5.8	47.3	80.2	24.0

Table 38. Yield and agronomic data from common entries in the 1990-1994 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. (%)
DeKalb Genetics 563W	5	153.9	92.9	2.8	7.8	40.4	76.9	20.5
IFSI 90-1	5	163.1	96.9	3.3	5.4	51.3	81.3	22.7
NobleBear NB710W	5	163.3	93.6	4.6	9.4	45.4	76.9	21.5
Pioneer Brand 3463W	5	143.0	94.5	2.8	3.7	44.0	75.8	20.2
Vineyard V424W	5	158.8	96.4	3.3	4.2	48.9	80.4	24.2
Whisnand 92AW	5	150.6	96.8	2.6	4.6	48.3	82.1	27.7
Yellow check B73 × Mo17	5	157.4	95.9	1.8	6.6	47.6	81.1	22.7
Mean		155.7	95.3	3.0	6.0	46.6	79.2	22.8

Table 39. Combined grain quality data from the 1994 Early White Food Corn Performance Test grown at Champaign, IL; Wanatah, IN; and Marion, IA.

Entry	No.	Test weight (lb/bu)	100-kernel weight (g)	Kernel size (cc)	Thins (%)	Kernel density (g/cc)	Horny endosp. (%)	Pericarp removal [‡] (1-5)
AgriGold A6565W	1	64.2	35.4	0.26	29.3	1.35	85	2.6
Asgrow X8983W	2	65.2	35.8	0.26	34.0	1.35	85	2.6
Bo-Jac 523W	3	64.4	36.2	0.27	24.9	1.34	83	2.9
Cargill 8097W	4	64.2	37.0	0.27	17.8	1.35	83	2.6
Cargill EXP 79002	5	63.6	36.1	0.27	31.9	1.34	80	3.2
DeKalb Genetics 555W	6	60.4	36.3	0.28	10.0	1.29	77	2.3
DeKalb Genetics 563W	7	61.0	39.1	0.30	6.0	1.30	80	2.7
DeKalb Genetics 739W	8	60.3	33.8	0.26	14.7	1.31	78	3.2
DeKalb Genetics 742W	9	60.6	34.8	0.26	16.8	1.32	80	2.9
DeKalb Genetics EXP368W	10	61.1	42.7	0.33	3.2	1.31	77	2.2
Hoegemeyer 1125W	11	63.4	37.6	0.28	25.3	1.34	80	3.2
Hoegemeyer 1131W	12	63.1	37.5	0.28	20.4	1.34	80	2.8
Hoegemeyer 1142W	13	65.4 [§]	37.9	0.28	26.0	1.35	90	3.4
ICI Seeds 8320W	14	64.2	35.7	0.26	28.3	1.35	83	2.5
IFSI 90-1	15	64.1	37.0	0.27	19.0	1.35	83	2.8
IFSI 93-4	16	61.6	35.7	0.27	27.2	1.32	80	3.3
IFSI 94-1	17	61.5	39.5	0.30	13.2	1.30	75	3.0
NC+ 6555W	18	63.7	36.1	0.27	32.2	1.34	78	1.9
NC+ RE672W	19	63.3	36.7	0.28	30.6	1.34	78	3.5
NobleBear NB571W	20	60.3	37.2	0.29	9.0	1.30	80	3.5
NobleBear NB710W	21	58.2	33.7	0.26	20.5	1.29	75	2.8
NobleBear NB739W	22	59.2	33.1	0.25	18.2	1.30	77	3.0
NobleBear NB742W	23	61.4	35.7	0.27	9.8	1.32	82	4.0
Ohlde 197W	24	64.0	37.4	0.28	26.3	1.34	82	2.9
Ohlde 198W	25	65.1 [§]	36.5	0.27	18.8	1.35	83	2.2
Ohlde 1219W	26	62.4	36.8	0.28	20.3	1.33	78	3.4
Pioneer Brand 3281W	27	63.4	35.8	0.27	10.5	1.34	87	2.9
Pioneer Brand 3287W	28	63.3	33.8	0.25	43.8	1.35	85	4.3
Pioneer Brand 3463W	29	62.0	33.2	0.25	31.9	1.33	83	2.2
Pioneer Brand X1083WA	30	62.2	33.6	0.25	28.5	1.34	87	2.1
Pioneer Brand X1183WB	31	62.6	39.5	0.30	14.6	1.33	83	4.0
Sturdy Grow SG745W	32	63.0	37.0	0.28	19.8	1.34	82	2.6
Sturdy Grow SG777W	33	64.7	37.7	0.28	19.4	1.35	82	3.2
Sturdy Grow SG797W	34	64.0	36.8	0.27	28.0	1.35	82	2.8
Sturdy Grow SG798W	35	64.5 [§]	37.1	0.28	31.6	1.35	80	3.3
Sturdy Grow EXP 731W	36	60.3	30.9	0.23	40.4	1.32	75	2.3
Sturdy Grow EXP 765W	37	62.7	32.7	0.25	42.8	1.34	77	3.2
Triumph 1429W	38	63.1	38.5	0.29	16.5	1.34	82	3.5
Vineyard V424W	39	63.0	35.5	0.27	28.7	1.34	80	2.2
Vineyard V438W	40	63.8	36.0	0.27	28.0	1.34	85	2.1
Vineyard V442W	41	62.6	34.6	0.26	20.0	1.35	92	3.6
Vineyard V449W	42	63.7	35.6	0.26	20.9	1.36	88	2.1
Vineyard Vx4143W	43	64.8	37.6	0.28	7.8	1.35	95	2.1
Vineyard Vx4483W	44	63.8	34.7	0.26	29.6	1.35	88	2.5
Whisnand 51AW	45	64.1	37.9	0.28	22.7	1.35	83	2.8

Table 39. Continued.

Entry	No.	Test weight (lb/bu)	100-kernel weight (g)	Kernel size (cc)	Thins (%)	Kernel density (g/cc)	Horny endosp. (%)	Pericarp removal [†] (1-5)
Whisnand 74W	46	63.6	38.8	0.29	18.0	1.34	85	1.8
Whisnand 92AW	47	65.3 [§]	38.8	0.29	22.6	1.34	88	3.5
Wilson 1780W	48	61.2	33.9	0.26	17.3	1.32	82	4.0
Wilson 1790W	49	61.7	34.9	0.27	12.7	1.32	80	3.6
<i>Zimmerman Z62W</i>	50	61.5 [§]	40.0	0.30	4.0	1.33	88	2.8
Yellow check B73 × Mo17	51	60.0	34.9	0.27	25.0	1.30	73	4.2
Mean		67.7	36.3	0.27	21.9	1.33	82	2.9
LSD 0.05		1.2	2.7	0.02	9.8	0.01	5	1.2
CV%		1.1	4.5	4.4	27.4	0.7	3.7	25.8

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

[‡] Rated on a scale in which 1 represents complete removal and 5 represents no removal.

[§] Data missing from one of the three locations because of inadequate sample size for testweight measurement.

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