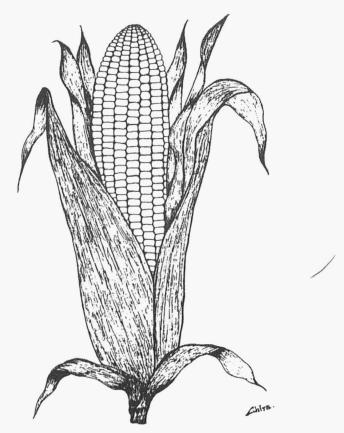
WHITE FOOD CORN

2000 Performance Tests



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

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INTRODUCTION

The 2000 Late White Food Corn Performance Test (LWFCPT) included 23 white hybrids and two yellow hybrid checks submitted by eight commercial seed producers (Table 1). Five white hybrids were new to the test in 2000. Fourteen locations were planted in the agronomic evaluation. Data were received from locations in Illinois, Kansas, Kentucky, Missouri, Tennessee, and Texas. Tests grown at Franklin, KY, and College Station, TX, were abandoned. Yield performance under three differing moisture regimes was evaluated at Halfway, TX. First- and second-generation European corn borer (Ostrinia nubilalis Hübner) data were observed at Columbia and Marshall, MO. Corn earworm (Helicoverpa zea Boddie), percentage moldy grain, and ear length were obtained at Lubbock, TX. Stewart's wilt (Erwinia stewartii [Smith] Dye) resistance was evaluated at Urbana, IL. Grain samples were evaluated for quality by the Illinois Crop Improvement Association, Inc.

The 2000 Early White Food Corn Performance Test (EWFCPT) included 24 white hybrids and two yellow hybrid checks. Entries were submitted by eight commercial seed producers (Table 1). Six white hybrids were new to the test in 2000. Fourteen total locations were planted in Illinois, Iowa, Missouri, Nebraska, Ohio, South Dakota, Tennessee, Texas, and Ontario, Canada. Data from Knoxville, TN, and Halfway, TX, were not included in the combined data analyses. Yield performance under three differing moisture regimes was evaluated at Halfway, TX. First- and second-generation European corn borer data were observed at Columbia and Marshall, MO. Corn earworm percentage, moldy grain, and ear length were obtained at Lubbock, TX. Stewart's wilt resistance was evaluated at Urbana, IL. Gibberella ear rot susceptibility was evaluated at Ottawa and Ridgetown, Ontario, Canada. Grain samples were evaluated for quality by the Illinois Crop Improvement Association, Inc.

ENTRIES AND SEED SOURCES

Contributors of seed for the 2000 evaluations are listed in Table 1. Hybrids entered in the LWFCPT and EWFCPT are listed in Table 2 giving company-provided days relative maturity. Those entries that have an "X" as part of the hybrid name, such as Vineyard Vx4359W¹, have not been released. The last hybrids in each table are yellow kernel hybrid checks.

For averages over years, entry names have been changed to current designations, so that an experimental hybrid from an earlier year is now identified as the released hybrid. Where a previously entered hybrid was entered by a new company, updates were made to prior naming so the hybrid appears in the summaries over years (if continuously entered). Changes affecting the 2000 tests follow: Diener D 114W and Diener D 115W were renamed from Diener DB 114W and Diener DB 115W, respectively. Pioneer Brand 33T17 was released from Pioneer Brand X1138AW. Vineyard V462W was released from Vineyard Vx4618W. The yellow hybrid check Pioneer Brand 3394 was contributed by Dr. C. T. Cunnyngham, Pioneer Hi-Bred International, Windfall, IN.

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 3 lists the locations of the LWFCPT and EWFCPT from which acceptable data were returned, together with a record of the agronomic practices. Note that tests at Scandia, KS; Clay Center and Gothenburg, NE; and Halfway, and Springlake, TX, were irrigated. Partial irrigation may have been used elsewhere. Figure 1 shows map locations where tests were planted.

DATA COLLECTED

Yield

Yields were measured on a plot basis, converted to bushels per acre (56 lb bu/a), and adjusted to 15.5% moisture. Adjustment of yield for plot stand was done when the efficiency of adjustment exceeded 104% (ratio of unadjusted to adjusted error mean squares). Adjustment was done for data from Powhattan, KS, and Columbia, MO, for the LWFCPT and from Ogden, IA; Gothenburg, NE; and Knoxville, TN, for the EWFCPT.

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.

Stalk brittle snapping

Brittle snapping is expressed as a percentage of total plants for each entry. Brittle snapping was observed only at Clay Center, NE, and resulted from a summer thunder storm with high winds. Stalks characteristically snap off at a node that is 12 to 24 inches above the ground, just prior to flowering during a "window of susceptibility."

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 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.

Environmental yield response (b₁) and standard deviation of fit

These statistics are shown in Table 16 for the entry means combined over all locations for the 2000 LWFCPT and in Table 41 for the EWFCPT. The yield response (b_l) 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.

Moisture regime yield responses

Moisture regime yield responses were evaluated at Halfway, TX, by using sub-surface, drip irrigation. Total growing season rainfall was 5.74 inches. Added to that was 17.48 inches of irrigation water for the low moisture stress regime, 12.82 inches of irrigation water for the moderate moisture stress regime, and 9.10 inches of irrigation water for the severe moisture stress regime. The low moisture stress regime represented about 80% replacement of measured evapotranspiration, the moderate moisture stress regime represented about 60% replacement, and the severe moisture stress regime represented about 50% replacement.

European corn borer

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

Feeding by the second generation of the European corn borer was determined by splitting stalks of five randomly infested plants per plot, counting the number of tunnels, and visually estimating the length of tunneling in inches. The minimum tunnel length associated with one hole was 1 inch. About 160 larvae were applied at flowering, and stalks were split six or more weeks later.

Corn earworm, molded grain, and ear length

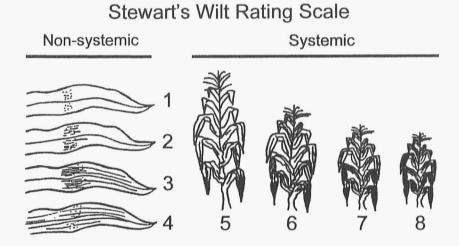
Corn earworm damage was measured on 10 infested plants as the distance from the ear tip to the last feeding spot towards the ear butt. Because the larvae must go through the silk channel, the feeding measurement starts at 0.4 inches beyond the tip to include that distance. Grain mold was visually estimated as the average percentage of all molded kernels for a 10-ear sample. Ear length was measured on a 10-ear sample of intact ears. Traits were measured at Lubbock, TX, on three replications watered by using sub-surface, drip irrigation to insure moisture stress did not occur.

Stewart's wilt and natural gray leaf spot

Planting for Stewart's wilt ratings was on 28APR at Urbana, IL. For these data, four replications of a randomized complete block design with 16 plants/plot were used. Entries from both the late and early tests, 64 other white food corn hybrids, and two sweet corn hybrid checks were included. Plants were inoculated by using the pinprick method on 22, 26, and 30MAY, and 6JUN. Plants were rated for Stewart's wilt on 20JUN. Rating was on a 1 to 9 scale where:

- 1 = No appreciable spread of symptoms from pinpricks,
- 2 = Limited water-soaking, chlorosis or necrosis within 3 cm of pinpricks,
- 3 = Limited spread from pinpricks; chlorosis or necrosis predominantly towards tips of leaves,
- 4 = Abundant spread from pinpricks; chlorosis or necrosis towards both ends of leaves,
- 5 = Minimal systemic infection; few symptomatic streaks on non-inoculated leaves,
- 6 = Moderate systemic infection; symptoms on 5 to 25% of leaf area, minimal stunting,
- 7 = Abundant systemic infection; symptoms on 25 to 50% of leaf area; distinct stunting,
- 8 = Severe systemic infection and stunting; symptoms on 50 to 90% of leaf area, and
- 9 = Symptoms on 90 to 100% of leaf area; dead plants.

The rating scale is depicted in the following diagram:



Natural gray leaf spot (*Cercospora zeae-maydis* Tehon & E.Y. Daniels) reaction was rated on 17AUG. Ratings were on a 1 to 9 scale and correspond approximately to the square root of the percentage of leaf area blighted.

Gibberella ear rot

Two methods of inoculation used. The silk method involved the injection of 0.5 mL of macroconidia at 10⁵ spores/mL of Fusarium graminearum (Gibberella zeae [Schwein.] Petch) directly into the silk channel seven days after silking for each ear. Wound inoculation was done about 14 days after silking by jabbing a pin block into the top-side of the ear (mid-ear) followed by injection of the same amount

of spore suspension. Plots were irrigated daily for about three weeks after inoculation. Plots were evaluated after physiological maturity for visible ear rot using a 1 to 7 scale where 1 was less than 0% of the ear area covered with ear rot and 7 was $\geq 75\%$ covered with ear rot.

Test weight

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

100-kernel weight

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

Kernel size

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

Thins

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

Density

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

Percentage horny endosperm

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

STATISTICAL ANALYSES AND INTERPRETATIONS

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

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

The CV% relates error of measurement and the mean of the observed character. Values of the CV% relates error of measurement and the mean of the observed character.

for root and stalk lodging are frequently much higher than for other characters and are generally associated with nonsignificant differences among hybrids.

Agronomic data combined from 12 locations of the 2000 LWFCPT with an appropriate LSD 0.05 for each character are shown in Table 16. Table 41 gives combined results for the 2000 EWFCPT. The combined LSD 0.05 is based on the entries × locations interaction vs. the pooled error from the combined AOV. When a character was not observed at a location, dots show in the location analysis; the combined mean and LSD 0.05 have been adjusted accordingly.

Stability analysis gives information on the responsiveness of hybrids to changes in environment and the reliability with which these responses may be predicted. Mean performance of all hybrids at a location was the measure used to rate the environment. This environmental index (I) was then used as the independent variable in a regression analysis with the individual hybrid's performance at each location. A hybrid that is stable will have a regression coefficient (b_I) 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_I values less than 1.0 would have a relative advantage in poor environments, if they had a high mean yield.

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

Overall, a desirable hybrid would have a high mean yield, b_I 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_I greater than 1.0 would be more responsive than one with $b_I = 1.0$, 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_I less than 1.0 would be less influenced by environment than one with $b_I = 1.0$, and would be likely to yield more if mean yield levels were equivalent.

NARRATIVE SUMMARY

2000 Late White Food Corn Performance Test

Yields from individual locations ranged from 78.2 bu/a at Powhattan, KS, to 208.0 bu/a at Lexington, KY. The overall average for 12 locations was 159.5 bu/a compared to 136.9 bu/a in 1999. Plot stands averaged 94.4%, and all locations exceeded 85%. Adjustment of yield for plot stand was done when the efficiency of adjustment exceeded 104% (ratio of unadjusted to adjusted error mean squares); adjustment was done for data from Powhattan, KS, and Columbia, MO.

Root lodging was near zero (0.4% average) and differences among entries were not significant in the combined analysis over locations. Stalk lodging averaged 12.0% with Halfway, TX, having 50.9% stalk lodging because of hot dry weather in August followed by a strong wind in the first week of September.

The number of days to flowering was recorded at seven locations. A 19.4-day spread was observed,

ranging from 63.6 days at Knoxville, TN, to 83.0 days at Scandia, KS. Low grain moisture percentages can be observed where plots were harvested and dried before shelling and weighing, however, most locations were combine harvested. Details of individual location data are in Tables 4 to 15 with the combined data in Table 16. Yield data from all 12 locations are given in Table 17.

Combined yield data from 12 locations (Table 16)

Four white hybrids yielded significantly more than the mean for all entries (159.5 bu/a): Pioneer Brand 32K72 (176.0 bu/a), Pioneer Brand 33T17 (174.2 bu/a), Zimmerman 1851W (174.2 bu/a), and Pioneer Brand 32Y52 (172.7 bu/a). An additional three white hybrids did not differ significantly from the top-yielding hybrid: Vineyard Vx4359W (170.1 bu/a), Zimmerman N71-T7 (167.7 bu/a), and Vineyard V433W (166.9 bu/a).

Two white entries and one yellow check hybrid yielded significantly less than the mean of all entries: IFSI 90-1 (147.1 bu/a), the yellow check B73 x Mo17 (144.9 bu/a), and Diener D 114W (144.3 bu/a). The entries × locations interaction was significant, indicating different entry responses in different environments.

The environmental response coefficients and standard deviations of fit are shown in the last two columns of Table 16. (A difference of ± 0.07 from 1.00 is necessary for significance. The LSD should be used when comparing coefficients of two hybrids.) Four white hybrids had b_I s that were significantly greater than 1.00, indicating greater than average response to better environmental conditions, but poorer performance in adverse environments. Six white hybrids and the yellow check hybrid Pioneer Brand 3394 had environmental responses that were significantly less than 1.00.

Vineyard Vx4359W (170.1 bu/a, $b_I = 1.15$ bu/a/I) had a yield not differing significantly from the highest yielding entry and a b_I that was significantly greater than 1.0. This hybrid would be a good selection 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 relatively low b_I . However, no hybrid in this year's test had a b_i significantly lower than 1.0 and high mean yield.

The standard deviations of fit varied for similar environmental response coefficients. For example, Pioneer Brand 32H39 (159.1 bu/a, $b_I = 1.01$ bu/a/I) and Zimmerman Z64W (163.0 bu/a, $b_I = 1.02$ bu/a/I) had standard deviations of 7.0 and 14.3 bu/a, respectively. Pioneer Brand 32H39 would be expected to be a more predictable performer in response to varied environments than Zimmerman Z64W.

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.

Moisture regime yield response data (Table 18)

Responses to three moisture regimes were evaluated with three replications at Halfway, TX. The low moisture stress regime was about 80% replacement of measured evapotranspiration, the moderate

moisture stress regime was about 60% replacement, and the severe moisture stress regime was about 50% replacement. Overall, mean yields decreased from 152.6 bu/a for the low moisture stress regime to 124.3 bu/a for the moderate moisture stress regime, and more drastically to 65.6 bu/a for the severe moisture stress regime.

No hybrid yielded significantly more than the mean under either low or moderate stress. Under severe stress, Asgrow RX901W (82.9 bu/a) yielded significantly more than the average entry (65.6 bu/a). No hybrid yielded significantly less than the mean under either the moderate or severe moisture regimes.

European corn borer resistance data for the 2000 LWFCPT (Table 19)

First-generation leaf-feeding ratings were obtained at Columbia and Marshall, MO, and averaged more than one score higher than in recent years. Significant differences were found among entries at both locations and for the combined data. For the combined means, Asgrow RX776W, Asgrow RX901W, Pioneer Brand 33T17, Zimmerman N71-T7, Zimmerman Z62W, and the resistant check Mycogen 7250 were significantly better (lower rating) than the mean of all entries (4.1 rating). Zimmerman N71-T7 is a Bt hybrid with transgenic resistance to the European corn borer. Ratings in the 1 to 3 range are generally considered as indicating good resistance.

Significant differences among entries were found for second-generation data for tunnel length at both locations and in the combined analysis for the two locations. Levels of damage were very low averaging only 1.3 inches of tunneling overall. The Bt hybrid, Zimmerman N71-T7, had only 0.1 inches of tunneling in the combined analysis, and that was significantly less that the average entry. The susceptible check, Wf9 × W182E, had significantly more tunneling (3.2 inches) than the mean.

Corn earworm resistance and molded grain data for the 2000 LWFCPT (Table 20)

Evaluated at Lubbock, TX, only Zimmerman 1851W (2.0 inches) had significantly less corn earworm damage than the average entry (3.1 inches). The yellow check hybrid B73 \times Mo17 had more (4.2 inches) corn earworm damage than the average entry. More molded grain than average occurred for Zimmerman Z64W and the yellow check hybrid B73 \times Mo17, but the highest amount of molded grain was only 7%.

Reactions to Stewart's bacterial wilt and natural gray leaf spot for the 2000 LWFCPT, EWFCPT, and other white food corn hybrids (Table 21)

Hybrid mean ratings for Stewart's wilt at Urbana, IL, ranged from 1.9 to 7.2 for all entries. Ratings ranged from 2.3 to 3.8 for entries in the WFCPT. Means for white hybrids that were not in the WFCPT ranged from 1.9 to 4.2. Hybrids with ratings of 2.5 or less were not significantly different from the hybrid with the lowest rating of 1.9. These hybrids were considered to be highly resistant. Hybrids with ratings between 2.5 and 3.0 also were considered to be resistant because the movement of *E. stewartii* was restricted to near inoculation wounds. Ratings of 3.0 to 4.5 correspond to moderate

reactions to Stewart's wilt. Fifteen hybrids in the WFCPT had moderate reactions. None of the hybrids in the WFCPT had susceptible reactions to Stewart's wilt.

Gray leaf spot reactions also were compared among white corn hybrids and ranged from 1.5 to 6.1.

Ratings of 2.4 and below were not significantly different from the hybrid with the lowest rating of 1.5.

Kernel quality evaluation of entries in the 2000 Late White Food Corn Performance Test (Table 22)

Milling quality of entries in the 2000 LWFCPT was evaluated by the Illinois Crop Improvement Association, Inc. Target values were kernel weight of 37 g or more per 100 kernels, density equal to or exceeding 1.20 g/cc, and 90% or more horny endosperm. Significant differences among entries were found for all quality traits measured.

For 2000, the mean 100-kernel weight was 35.3 g. Six white hybrids met or exceeded the target value of 37 g/100 kernels: Pioneer Brand 32K72 (37.4 g), Pioneer Brand 32Y52 (40.0 g), Vineyard V462W (38.5 g), Zimmerman 1851W (39.5 g), Zimmerman Z62W (37.7 g), and Zimmerman Z64W (37.1 g). Low 100-kernel weights may reflect a trend toward smaller, somewhat more dense kernels. All entries, except the yellow check B73 × Mo17, had kernel densities greater than or equal to 1.30 g/cc, which is very good. Eleven white hybrids met or exceeded the 90% or more horny endosperm criterion.

Two-, three-, four-, and five-year mean yields and agronomic performance (Tables 23 to 26)

Data were summarized for common entries in the last two, three, four, and five years of the LWFCPT. Individual year means were averaged without weighting for the varying numbers of locations over the years when they differed. For the past five years, the number of locations with acceptable data ranged from 11 for 1998 and 1999 to 13 for 1996. Approximate values of 8.1 bu/a for the two-year means, 7.1 bu/a for the three-year means, 6.4 bu/a for the four-year means, and 5.8 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 1996 to 2000 tests (five-year means), Pioneer Brand 32H39 (160.5 bu/a) was significantly better yielding than the average of the other entries. Relatively poorer performing over this period was the yellow check B73 × Mo17 (145.3 bu/a).

For the four-year means, no hybrid was judged to yield significantly above the average hybrid. Again, significantly lower yielding than the average for all entries was the yellow check $B73 \times Mo17$ at 143.4 bu/a.

2000 Early White Food Corn Performance Test

Yields in the EWFCPT ranged from 114.5 bu/a at Beresford, SD, to 181.3 bu/a at Gothenburg, NE, with an overall average for 12 locations of 145.6 bu/a. Stands averaged 87.3% overall, ranging from 86.9% at Harlan, IA, to 100.0% at Beresford, SD. Adjustment of yield for plot stand was done when the efficiency of adjustment exceeded 104% (ratio of unadjusted to adjusted error mean squares); adjustment was done for data from Ogden, IA; Gothenburg, NE; and Knoxville, TN.

Root lodging averaged 6.0% for eight locations reporting data and differences among entries were not significant. Stalk lodging averaged just 5.1% for the nine locations reporting data. Differences among entries were not significant.

Days to flowering were recorded only at Marion, IA, and Ridgetown, Ontario, with a mean of 88.6 days, which was 12.6 days more than for 1999. Harvest grain moistures averaged 19.8%. The Gothenburg, NE, location had 13.1% moisture at harvest, while Grande Pointe, ONT, had 27.8% grain moisture at harvest.

Thirteen white hybrids and the yellow checks B73 × Mo17 and Pioneer Brand 3394 were grown in both the LWFCPT and EWFCPT. Further testing may define the more suitable environments for each hybrid. There will be hybrids, however, that are intermediate to the maturity zones of the two tests and will continue to be entered in both tests.

The test was also grown at Knoxville, TN (Table 37) and Halfway, TX (Table 38), but these data were not included in the combined analysis for the northern Corn Belt locations. Individual location data are shown in Tables 27 to 40 with the combined data in Table 41. Yield data from the 12 northern Corn Belt locations are given in Table 42.

Combined yield data from 12 northern Corn Belt locations (Table 41)

The average yield from 12 Corn Belt locations was 145.6 bu/a. Only one white hybrid yielded significantly more than the average entry: Pioneer Brand 32K72 (165.3 bu/a). Not differing significantly from the highest-yielding hybrid were Pioneer Brand X1128BW (157.8 bu/a), Pioneer Brand 32Y52 (157.4 bu/a), Zimmerman N71-T7 (156.6 bu/a), Pioneer Brand 33T17 (156.2 bu/a), Vineyard Vx4359W (154.6 bu/a), Asgrow RX776W (152.5 bu/a), Vineyard Vx4319W (152.5 bu/a), Zimmerman 1790W (152.1 bu/a), Vineyard V433W (150.6 bu/a), and Pioneer Brand 34P93 (150.6 bu/a). Included among hybrids that yielded significantly lower than the average entry were NC+ 4089W (129.2 bu/a) and IFSI 90-1 (128.2 bu/a).

The environmental response coefficients (b_I) and standard deviations of fit for the EWFCPT are shown in the last two columns of Table 41. (A difference of ± 0.14 from 1.00 is necessary for significance. The LSD should be used when comparing coefficients of two hybrids.)

Seven white hybrids had b_I 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, Pioneer Brand 32Y52 (157.4 bu/a, $b_I = 1.15$ bu/a/I) and Zimmerman N71-T7 (156.6 bu/a, $b_I = 1.26$ bu/a/I) had mean yields not significantly different from the highest-yielding entry, and a high b_I . These hybrids would be very responsive in good environments.

Six white hybrids had environmental responses that were significantly lower than 1.00. Usually, low response is associated with low mean yields. Hybrids can usually be found, however, that have high mean yield and hold up under adverse environments. In this test, Pioneer Brand 32K72 (165.3 bu/a, $b_I = 0.76$ bu/a/I), Pioneer Brand 33T17 (156.2 bu/a, $b_I = 0.77$ bu/a/I), and Vineyard Vx4319W (152.5 bu/a, $b_I = 0.81$ bu/a/I) typified that response. Responses 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, Asgrow RX776W (152.5 bu/a, $b_I = 0.89$ bu/a/I) and Pioneer Brand X1128BW (157.8 bu/a, $b_I = 0.88$ bu/a/I) had standard deviations of 13.8 and 29.2 bu/a, respectively. Asgrow RX776W would be expected to be a more predictable performer in response to varied environments than Pioneer Brand X1128BW.

Stalk brittle snapping data (Table 33)

Brittle snapping data were observed following a summer thunderstorm at Clay Center, NE. Average percentage brittle snapping was 10.8 with three hybrids having significantly more brittle snapping than average: Pioneer Brand 33T17 (46.7%), Zimmerman Z62W (37.8%), and Pioneer Brand 32H39 (26.0%). Ten white hybrids has 5% or less brittle snapping.

Moisture regime yield response data (Table 43)

Responses to three moisture stress regimes were evaluated with three replications at Halfway, TX. The low moisture stress regime was about 80% replacement of measured evapotranspiration, the moderate moisture stress regime was about 60% replacement, and the severe moisture stress regime was about 50% replacement.

With increasing stress, mean yields decreased from 149.4 bu/a for the low moisture stress regime to 137.1 bu/a for the moderate moisture stress regime, and then to 66.8 bu/a for the severe moisture stress regime. Most hybrid yields decreased when comparing yields from low to moderate moisture stress and all hybrid yields decreased from moderate to severe moisture stress.

No hybrid yielded significantly more than the average of all entries under low moisture stress. Under moderate moisture stress, Zimmerman N71-T7 (166.7 bu/a) and Pioneer Brand X1128BW (165.4 bu/a) yielded more than the mean of 154.6 bu/a. NC+ 4950W yielded significantly less than the mean under the moderate moisture stress regime. No entry differed significantly from the mean under severe moisture stress.

European corn borer susceptibility data for the 2000 EWFCPT (Table 44)

First-generation leaf-feeding ratings were obtained at Columbia and Marshall, MO. Significant differences were found among entries for both locations and in the combined analysis. In the combined analysis, Pioneer Brand 32K72 (3.3 rating), Zimmerman N71-T7 (Bt hybrid, 1.5 rating), Zimmerman Z75W (3.2 rating), and the two resistant check hybrids had ratings significantly lower (better) than the mean rating of 4.3. Eight white hybrids and the two yellow check hybrids had significantly higher ratings than the average entry.

Significant differences among entries were found for second-generation number of tunnels and stalk tunnel length. For tunnel numbers, Zimmerman N71-T7 (0.2 tunnels) and the resistant check Pioneer Brand 3184 (0.3 tunnels) had significantly fewer tunnels than the average entry (1.1 tunnels), and NC+ 4950W (1.7 tunnels) and the susceptible check Wf9 × W182E (2.6 tunnels) had significantly

more tunnels.

Very little second-generation tunneling damage occurred and no combined tunnel length mean exceeded 1.8 inches, except for the susceptible check hybrid Wf9 × W182E (3.0 inches). Again, Zimmerman N71-T7 (0.2 inches) had significantly less tunneling than the average entry (1.2 inches). Zimmerman N71-T7 is a Bt hybrid with transgenic resistance to European corn borer.

Corn earworm resistance and molded grain data for the 2000 LWFCPT (Table 45)

Corn earworm resistance was evaluated in Lubbock, TX, under irrigated conditions. Asgrow RX776W (1.8 inches) and Zimmerman N71-T7 (1.9 inches) had less damage than the average entry (2.9 inches). Only Vineyard Vx4395W (4.3 inches) had more corn earworm damage than the average entry. Differences among entries for percentage of molded grain were significant. No entry had significantly less molded grain than average (4.7%). Three hybrids had more mold than the average hybrid: IFSI 95-2 (11.3%), Vineyard Vx4395W (10.3%), and the yellow check B73 \times Mo17 (10.0%).

Reactions to Stewart's bacterial wilt and natural gray leaf spot for the 2000 LWFCPT, EWFCPT, and other white food corn hybrids (Table 21)

See page 12 for discussion of the Stewart's wilt reactions for the EWFCPT. All white food corn entries were evaluated in a common test and not separated by maturity.

Gibberella ear rot evaluation of entries in the 2000 Early White Food Corn Performance Test (Table 46)

Ear rot susceptibility evaluation was done using both silk and wound inoculation at Ottawa and Ridgetown, Ontario, Canada. Considering both ratings in the combined data from the two locations, Diener D 115W and Zimmerman 1780W were significantly better than the average early white hybrid. Three hybrids were more susceptible than average: Pioneer Brand 32K52, Vineyard Vx4319W, and Zimmerman Z62W.

Kernel quality evaluation of entries in the 2000 Early White Food Corn Performance Test (Table 47)

Milling quality of entries in the 2000 EWFCPT was evaluated by the Illinois Crop Improvement Association, Inc. Target values were a kernel weight of 37 g or more per 100 kernels, density equal to or exceeding 1.20 g/cc, and 90% or more horny endosperm. Significant differences were found among entries for all quality traits.

No early maturity white hybrid met the 37 g/100 kernel target value in 2000 and no white hybrid was significantly better or worse than the mean for all entries.

All entries had kernel densities equal to or greater than 1.30 g/cc except for the yellow check B73 × Mo17. The overall range for the white hybrids was from 1.30 to 1.33 g/cc.

Thirteen white hybrids met the 90% or more horny endosperm criterion and four were judged very

good at 94%: Pioneer Brand 32Y52, Pioneer Brand 33T17, Pioneer Brand 34P93, and Zimmerman Z75W. Vineyard Vx4359W (84%) and the yellow check B73 × Mo17 (81%) had less than 85% horny endosperm.

Two-, three-, four-, and five-year mean yields and agronomic performance (Tables 48 to 51)

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 eight in 1996 to 12 in 1998 and 2000. Although an LSD cannot be directly calculated, approximate values of 11.3 bu/a for the two-year means, 8.8 bu/a for the three-year means, 7.5 bu/a for the four-year means, and 6.7 bu/a for the five-year means can be used to compare yields of individual entries.

For the five-year means, no white hybrid or yellow hybrid check was significantly better than the mean. Pioneer Brand 32H39(160.1 bu/a) and Zimmerman 1790W(160.0 bu/a) significantly out-yielded Whisnand 51AW(151.3 bu/a), IFSI 90-1(150.8 bu/a), and the yellow check hybrid $B73 \times Mo17(148.4 \text{ bu/a})$.

Results from calculating four-year means showed no hybrid was better than the mean of all hybrids. Similar to results for the five-year means, Whisnand 51AW, IFSI 90-1, and the yellow check hybrid $B73 \times Mo17$ were lower yielding.

Table 1. Sources of commercial white endosperm food corn hybrids entered in the 2000 Late White Food Corn Performance Test and the 2000 Early White Food Corn Performance Test.

Brand	\mathbf{Firm}^{\dagger}	Address/telephone/FAX
Asgrow	Monsanto	3100 Sycamore Road, DeKalb, IL 60115 Tel. 800/833-5252 FAX 888/811-9498
Diener	Diener Seed, Inc.	P. O. Box 589, Hudson, IL 61748 Tel. 888/730-7118 FAX 309/726-1484
IFSI	Illinois Foundation Seeds, Inc.	P. O. Box 722, Champaign, IL 61824-0722 Tel. 217/485-6420 FAX 217/485-5223
NC+	NC+ Hybrids	3820 North 56 th Street, Lincoln, NE 68504 Tel. 402/467-2517 FAX 402/467-4217
Pioneer Brand	Pioneer Hi-Bred International	7100 N.W. 62 nd Avenue, P. O. Box 1100 Johnston, IA 50131-1100 Tel. 515/334-6646 FAX 515/334-6922
Vineyard	Cargill Hybrid Seeds	P. O. Box 5645, Minneapolis, MN 55440 Tel. 612/984-8040 FAX 612/984-8209
Whisnand	Whisnand Hybrids	1220 East State Route 133, Arcola, IL 61910 Tel. 217/268-3714 FAX 217/268-3291
Zimmerman	Wilson Genetics, L.L.C.	P. O. Box 391, Harlan, IA 51537 Tel. 712/755-3841 FAX 712/755-5261

[†] 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. Hybrid entries and company-provided days relative maturity (DRM) for the 2000 LWFCPT and EWFCPT. New entries for 2000 are shown in italics.

	EWFCPT. New entries for	2000 are snown	in italics.		
Entry	no. Entry	DRM	Entry 1	no. Entry	DRM
		s are participati		e are five new entries	
	New en	tries for the 2000) test are sh	lown in italics	
01	Asgrow RX776W	114	14	Vineyard V433W	114
02	$Asgrow\ RX792W$	115	15	Vineyard V455W	117
03	Asgrow RX901W	118	16	Vineyard V462W	119
04	Diener D 114W	114	17	Vineyard Vx4359W	115
05	Diener D 115W	115	18	Whisnand 50AW	111
06	IFSI 90-1	114	19	Whisnand 51AW	112
07	IFSI 95-1	118	20	Zimmerman 1851W	116
08	IFSI 97-1	116	21	Zimmerman N71-T7	111
09	NC+ 6990W	118	22	Zimmerman Z62W	112
10	Pioneer Brand 32H39	115	23	Zimmerman Z64W	115
11	Pioneer Brand 32K72	114	24	Yellow check B73 × Mo17	115
12	Pioneer Brand 32Y52	115	25	Yellow check Pioneer Brand 3394	110
13	Pioneer Brand 33T17	114			

EWFCPT

Eight companies are participating and there are six new entries New entries for the 2000 test are shown in italics

01	Asgrow RX776W	114	14	Vineyard V433W	114
02	Diener D 114W	114	15	Vineyard Vx4319W	113
03	$Diener\ D\ 115W$	115	16	Vineyard Vx4359W	115
04	IFSI 90-1	114	17	Whisnand 50AW	111
05	IFSI 95-2	112	18	Whisnand 51AW	112
06	NC+ 4089W	108	19	Zimmerman 1780W	114
07	NC+ 4950W	114	20	Zimmerman 1790W	113
08	Pioneer Brand 32H39	115	21	Zimmerman N71-T7	111
09	Pioneer Brand 32K72	114	22	Zimmerman Z62W	112
10	Pioneer Brand 32Y52	115	23	Zimmerman Z75W	112
11	Pioneer Brand 33T17	114	24	Zimmerman Z76W	111
12	Pioneer Brand 34P93	111	25	Yellow check B73 \times Mo17	115
13	Pioneer Brand X1128BW	111	26	Yellow check Pioneer Brand 3394	110

Table 3. Locations and agronomic conditions for yield tests.

	Mean	Previous	Fe	Fertilizer (lb/a)		Date			Plant density
Location	yield (bu/a)	crop	N	P_2O_5	K ₂ O	planted	Herbicide	Insecticide	(plants/a)
			La	ite Whit	e Food	Corn Perform	ance Test		
Champaign, IL	151.6	Soybean	176	71	300	29APR00	Atrazine, metolachlor	Chlorpyrifos	30,000
Winchester, IL	173.8	Soybean	140	0	0	26APR00	Atrazine, metolachlor	Chlorpyrifos	30,000
Powhattan, KS	78.2	Soybean	120	0	0	24APR00	Atrazine, metolachlor		24,390
Scandia, KS‡	182.6	Grain sorghu	ım 200	30	0	18APR00	Atrazine, metolachlor		36,500
Lexington, KY	208.0	Corn	200	0	72	5MAY00	Alachlor, atrazine		23,770
Columbia, MO	167.8	Soybean	189	0	0	1MAY00	Atrazine, metolachlor	Esfenvalerate	23,200
Novelty, MO	142.1	Soybean	160	50	100	2MAY00	Atrazine, metolachlor, simazine		23,200
Tipton, MO	137.0	Fallow	185	70	70	3MAY00	Atrazine, metolachlor	Esfenvalerate	23,200
Knoxville, TN	158.6	Soybean	180	60	60	30APR00	Alachlor, simazine	Chlorpyrifos	28,750
Union City, TN	155.9	Soybean	240	195	120	9MAY00	Atrazine, bromoxynil, metolachlor, simazine	Cyhalothrin	27,000
Halfway, TX‡	152.6	Corn	180	60	0	28APR00	Acetochlor, atrazine		25,320
Springlake, TX‡	206.4	Cotton	243	69	30	25APR00	Atrazine, metolachlor, trifluralin	Polyacrylamide	30,500

Table 3. Continued.

	Mean	n .	Fertilizer (lb/a)		Dete			Plant	
Location	yield (bu/a)	Previous crop	N	P_2O_5	K ₂ O	Date planted	Herbicide	Insecticide	density (plants/a)
			Ea	rly Whi	te Food	Corn Perforn	nance Test		
Champaign, IL	146.8	Soybean	176	71	300	29APR00	Atrazine, metolachlor	Chlorpyrifos	30,000
Geneseo, IL	125.3	Soybean	175	137	120	10MAY00	Atrazine, metolachlor	Tefluthrin	30,500
Harlan, IA	178.1	Soybean	160	0	0	5MAY00	Atrazine, flufenacet, metribuzin		30,000
Marion, IA	161.7	Corn	230	206	72	25APR00	Atrazine, bentazon, metolachlor		30,000
Ogden, IA	117.9	Soybean	130	80	80	24APR00	Atrazine, metolachlor, nicosulfuron, rimsulfuron		29,000
St. Joseph, MO	165.5	Soybean	170	115	36	21APR00	Atrazine, metolachlor	Cyfluthrin, phosphorothio	29,000 ate
Clay Center, NE [‡]	161.6	Soybean	156	50	0	28APR00	Acetochlor, atrazine, carfentrazone-ethyl	Fipronil	26,000
Gothenburg, NE [‡]	181.3	Corn	200	46	0	18APR00	Atrazine, metolachlor	Tefluthrin	31,600
Hoytville, OH	115.1	Soybean	300	46	90	8MAY00	2,4-D; flutenacot, isoxaflutole, Metribuzin		30,000
Beresford, SD	114.5	Soybean	120	0	0	4MAY00	Flumetsulam, metolachlor	Permethrin, tefluthrin	26,810
Knoxville, TN	185.1	Soybean	180	60	60	30APR00	Alachlor, simazine	Chlorpyrifos	28,750
Halfway, TX‡	149.4	Corn	180	60	0	28APR00	Acetochlor, atrazine		25,320
Grande Pointe, Ontario	118.7	Soybean	185	124	65	16MAY00	Atrazine, benoxacor, dicamba, metolachlor		30,000
Ridgetown, Ontario	160.2	Winter wheat	185	124	65	27APR00	Atrazine, benoxacor, dicamba, metolachlor		28,640

[†] Dashes indicate none used or data missing. ‡ Irrigated location.



Fig. 1. Planted locations for the 2000 late and early white food corn performance tests.

Table 4. Yield and agronomic data from the 2000 Late White Food Corn Performance Test at Champaign, IL. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	146.4	97.7	0.0	4.6	48.0		23.4
$Asgrow\ RX792W$	2	125.4	98.6	1.8	4.1	54.0		23.9
Asgrow RX901W	3	167.3	99.5	2.3	2.3	56.3		28.3
Diener D 114W	4	155.8	91.4	0.0	1.9	54.7		26.7
Diener D 115W	5	128.6	96.4	0.9	1.9	56.7		26.7
IFSI 90-1	6	146.8	93.2	0.9	4.3	58.0		24.2
IFSI 95-1	7	165.0	97.7	0.9	6.0	57.0		26.9
IFSI 97-1	8	166.3	94.1	2.3	4.1	59.0		27.2
NC+ 6990W	9	166.3	95.9	0.0	0.9	59.3		27.7
Pioneer Brand 32H39	10	143.4	98.6	2.4	2.3	55.0		20.9
Pioneer Brand 32K72	11	164.9	98.2	0.5	4.6	56.0		23.1
Pioneer Brand 32Y52	12	159.3	100.0	3.2	2.3	56.3		24.6
Pioneer Brand 33T17	13	145.8	99.1	0.0	2.7	55.3		23.3
Vineyard V433W	14	158.6	99.1	2.3	2.7	54.0		24.8
Vineyard V455W	15	166.3	96.4	0.9	2.8	55.7		24.9
Vineyard V462W	16	141.2	96.8	2.8	2.3	50.0	*	26.2
Vineyard Vx4359W	17	176.0	99.1	3.7	4.1	55.3		25.3
Whisnand 50AW	18	172.3	97.7	0.9	2.3	66.0	,	23.5
Whisnand 51AW	19	142.4	100.0	0.0	2.3	61.7	,	23.9
Zimmerman 1851W	20	186.7	98.2	0.0	0.9	59.0		27.6
Zimmerman N71-T7	21	120.9	97.3	3.2	6.0	54.7		23.5
Zimmerman Z62W	22	122.4	94.6	0.0	1.0	61.3	,	25.3
Zimmerman Z64W	23	182.1	98.2	1.3	4.6	59.7	,	27.1
Yellow check B73×Mo17	24	118.1	90.5	2.8	2.9	58.0		23.3
Yellow check Pioneer Brand 3394		122.9	98.2	0.9	6.0	56.0		17.4
Mean		151.6	97.1	1.4	3.2	56.7		24.8
LSD 0.05		40.6	ns	ns	ns	5.1		2.0
CV%		16.4				5.6		4.8

Table 5. Yield and agronomic data from the 2000 Late White Food Corn Performance Test at Winchester, IL. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	166.1	98.6	0.0	2.3	41.7		25.0
Asgrow RX792W	2	156.8	97.3	0.0	2.8	48.3		22.5
Asgrow RX901W	3	150.7	95.5	0.0	3.7	45.3		32.5
Diener D 114W	4	151.9	95.0	0.0	4.7	51.0		26.8
Diener D 115W	5	158.7	94.1	0.0	4.8	46.7		27.9
IFSI 90-1	6	151.6	93.2	0.0	3.4	52.0		22.0
IFSI 95-1	7	163.7	97.7	0.0	6.9	54.3		31.9
IFSI 97-1	8	166.9	96.8	0.5	6.1	56.0		29.0
NC+ 6990W	9	174.2	97.7	0.0	4.1	49.3	,	28.8
Pioneer Brand 32H39	10	181.0	96.8	0.0	2.8	44.7		22.0
Pioneer Brand 32K72	11	208.5	99.1	0.0	2.7	47.0		22.3
Pioneer Brand 32Y52	12	186.3	98.2	0.0	3.2	53.3		20.9
Pioneer Brand 33T17	13	220.3	100.0	0.0	4.1	49.7		19.6
Vineyard V433W	14	191.2	98.6	0.0	9.2	51.7		22.2
Vineyard V455W	15	177.6	98.6	0.0	3.2	56.7		25.4
Vineyard V462W	16	154.6	98.2	0.9	4.1	49.7		27.6
Vineyard Vx4359W	17	172.1	97.7	0.0	8.3	54.7		22.9
Whisnand 50AW	18	182.5	96.8	0.0	4.7	59.0		20.6
Whisnand 51AW	19	174.5	96.4	0.5	2.3	58.3		21.6
Zimmerman 1851W	20	188.2	99.5	0.0	6.8	56.0		31.5
Zimmerman N71-T7	21	191.4	96.8	0.0	8.0	52.7		22.7
Zimmerman Z62W	22	161.1	95.9	0.0	0.9	55.0		20.4
Zimmerman Z64W	23	175.6	99.1	0.9	2.8	57.7		30.0
Yellow check B73×Mo17	24	161.5	90.5	0.0	5.0	57.0		22.8
Yellow check Pioneer Brand 3394	25	176.9	100.5	0.0	3.6	46.7		17.0
Mean		173.8	97.2	0.1	4.4	51.8		24.6
LSD 0.05		20.8	3.9	ns	4.2	8.1		2.9
CV%		7.3	2.5		58.3	9.6		7.3

Table 6. Yield and agronomic data from the 2000 Late White Food Corn Performance Test at Powhattan, KS. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	75.8	104.5	0.0	0.5	33.0	80.0	14.1
Asgrow RX792W	2	70.5	97.5	0.0	0.0	39.3	83.3	14.1
Asgrow RX901W	3	79.2	87.4	0.0	0.6	38.3	84.3	16.3
Diener D 114W	4	75.9	67.2	0.0	0.7	36.7	83.0	15.3
Diener D 115W	5	75.3	82.8	0.0	0.0	35.3	84.7	14.4
IFSI 90-1	6	75.0	76.3	0.0	0.0	41.0	84.0	14.9
IFSI 95-1	7	74.0	80.8	0.0	0.7	40.3	84.3	20.4
IFSI 97-1	8	91.0	80.8	0.0	0.6	41.7	83.7	20.0
NC+ 6990W	9	72.3	80.3	0.0	0.0	38.0	83.3	17.1
Pioneer Brand 32H39	10	74.3	91.4	0.0	0.0	37.7	79.7	13.0
Pioneer Brand 32K72	11	86.4	80.3	0.0	0.5	36.0	78.7	13.5
Pioneer Brand 32Y52	12	81.2	92.9	0.0	0.0	39.3	81.0	13.6
Pioneer Brand 33T17	13	89.7	80.3	0.0	0.0	37.7	81.7	13.2
Vineyard V433W	14	78.0	84.8	0.0	0.0	40.7	83.7	14.2
Vineyard V455W	15	76.3	80.3	0.0	0.0	41.7	81.7	13.4
Vineyard V462W	16	74.1	92.9	0.0	0.0	35.3	85.0	14.6
Vineyard Vx4359W	17	84.7	85.4	0.0	0.0	41.0	82.0	15.2
Whisnand 50AW	18	89.3	89.4	0.0	0.0	46.0	82.3	14.5
Whisnand 51AW	19	76.6	91.9	0.0	0.6	43.0	83.0	13.9
Zimmerman 1851W	20	82.4	93.9	0.0	0.0	40.0	85.0	15.9
Zimmerman N71-T7	21	83.6	87.9	0.0	0.6	40.0	81.7	14.2
Zimmerman Z62W	22	65.0	80.3	0.0	0.0	37.7	83.7	13.6
Zimmerman Z64W	23	74.3	81.8	0.0	1.3	42.3	84.0	15.1
Yellow check B73×Mo17	24	69.9	68.2	0.0	0.0	40.0	80.7	12.4
Yellow check Pioneer Brand 3394	25	80.4	90.4	0.0	0.0	35.7	79.3	12.8
Mean		78.2	85.2	0.0	0.2	39.1	82.5	14.8
LSD 0.05		11.8	15.4	ns	ns	3.2	2.9	1.6
CV%		9.3	11.1			5.0	2.2	6.7

Table 7. Yield and agronomic data from the 2000 Late White Food Corn Performance Test at Scandia, KS. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	174.9	88.0	0.0	0.4	38.7	83.0	15.4
Asgrow RX792W	2	199.3	93.5	0.0	0.0	45.0	83.0	15.7
Asgrow RX901W	3	182.1	84.4	0.0	1.7	40.3	84.0	16.5
Diener D 114W	4	164.4	86.6	0.0	0.4	41.0	81.0	15.9
Diener D 115W	5	163.9	92.8	0.0	3.9	45.0	81.3	17.3
IFSI 90-1	6	147.7	86.2	0.0	5.5	48.7	83.3	15.2
IFSI 95-1	7	177.8	90.2	0.0	0.8	46.0	84.0	17.4
IFSI 97-1	8	161.0	91.3	0.0	1.2	45.7	83.0	16.7
NC+6990W	9	179.8	86.6	0.0	4.6	49.3	82.7	16.7
Pioneer Brand 32H39	10	185.6	90.9	0.0	0.8	46.0	82.0	15.0
Pioneer Brand 32K72	11	227.2	88.0	0.0	0.4	43.7	83.3	14.8
Pioneer Brand 32Y52	12	206.8	89.1	0.0	0.0	46.7	83.0	16.2
Pioneer Brand 33T17	13	211.3	87.3	0.0	0.4	41.7	83.0	14.3
Vineyard V433W	14	185.4	88.4	0.0	0.4	44.7	83.3	15.9
Vineyard V455W	15	185.0	87.7	0.0	0.9	48.0	82.7	15.8
Vineyard V462W	16	153.9	95.3	0.0	1.5	41.7	83.3	16.9
Vineyard Vx4359W	17	178.0	90.9	0.0	1.2	42.0	83.7	15.7
Whisnand 50AW	18	198.5	86.2	0.0	1.7	45.0	82.7	14.9
Whisnand 51AW	19	163.6	88.4	0.0	0.8	46.3	84.0	14.6
Zimmerman 1851W	20	204.8	87.3	0.0	1.2	43.0	83.3	17.6
Zimmerman N71-T7	21	214.2	90.2	0.0	0.4	47.0	82.7	16.1
Zimmerman Z62W	22	182.0	91.3	0.0	0.0	41.7	84.3	14.8
Zimmerman Z64W	23	191.1	88.4	0.0	1.2	48.3	84.3	17.3
Yellow check B73×Mo17	24	156.9	86.6	0.0	2.9	40.0	83.0	14.8
Yellow check Pioneer Brand 3394	25	169.1	88.4	0.0	0.0	42.3	81.0	12.8
Mean		182.6	89.0	0.0	1.3	44.3	83.0	15.8
LSD 0.05		10.0	ns	ns	1.9	0.8	1.2	1.5
CV%		3.4			87.7	1.1	0.9	5.7

Table 8. Yield and agronomic data from the 2000 Late White Food Corn Performance Test at Lexington, KY. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	195.9	100.0	0.5	0.0	27.3	63.0	20.5
Asgrow RX792W	2	198.8	100.0	0.0	0.9	40.2	63.0	20.0
Asgrow RX901W	3	203.8	100.0	0.0	1.4	39.0	66.0	21.3
Diener D 114W	4	196.2	100.0	0.0	2.3	37.8	64.0	19.9
Diener D 115W	5	203.4	100.0	1.4	2.3	42.8	66.0	20.5
IFSI 90-1	6	207.5	100.0	0.0	1.9	42.0	64.0	19.9
IFSI 95-1	7	207.6	100.0	0.0	0.9	46.5	65.0	23.5
IFSI 97-1	8	197.4	100.0	0.9	1.4	44.5	66.0	22.1
NC+ 6990W	9	184.4	100.0	0.5	0.0	38.4	66.0	21.1
Pioneer Brand 32H39	10	206.6	100.0	0.5	0.5	35.4	62.3	21.1
Pioneer Brand 32K72	11	215.4	100.0	0.9	0.0	31.2	63.0	19.5
Pioneer Brand 32Y52	12	223.2	100.0	0.0	1.4	38.0	64.0	20.3
Pioneer Brand 33T17	13	210.1	100.0	1.4	1.4	36.0	63.0	18.6
Vineyard V433W	14	219.8	100.0	0.9	0.0	35.6	63.0	19.9
Vineyard V455W	15	226.8	100.0	0.0	1.4	40.3	63.0	20.8
Vineyard V462W	16	206.7	100.0	0.0	2.3	34.8	64.0	21.7
Vineyard Vx4359W	17	238.1	100.0	0.0	0.0	41.0	63.0	20.0
Whisnand 50AW	18	201.1	100.0	1.9	1.4	48.8	66.0	19.1
Whisnand 51AW	19	207.7	100.0	2.8	2.8	43.0	66.0	20.4
Zimmerman 1851W	20	217.8	100.0	0.5	0.5	38.9	62.7	20.9
Zimmerman N71-T7	21	207.0	100.0	1.4	1.4	42.4	65.0	19.8
Zimmerman Z62W	22	190.9	100.0	0.0	2.8	44.3	66.0	19.6
Zimmerman Z64W	23	205.9	100.0	0.0	1.4	41.7	62.7	21.9
Yellow check B73×Mo17	24	211.8	100.0	1.4	0.5	36.3	63.0	19.0
Yellow check Pioneer Brand 3394	25	216.8	100.0	0.5	0.5	39.8	63.0	18.2
Mean		208.0	100.0	0.6	1.2	39.4	64.1	20.4
LSD 0.05		20.3	ns	ns	ns	5.5	2.8	1.1
CV%		6.0				8.5	2.7	3.2

Table 9. Yield and agronomic data from the 2000 Late White Food Corn Performance Test at Columbia, MO. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	158.3	94.6	0.0	3.2	39.0	72.3	15.4
$Asgrow\ RX792W$	2	144.8	96.4	0.6	15.7	48.8	72.0	15.0
Asgrow RX901W	3	149.6	78.6	1.4	7.1	46.8	72.7	15.8
Diener D 114W	4	158.7	78.0	0.0	7.3	46.8	72.7	15.6
Diener D 115W	5	194.0	95.2	1.2	19.0	49.4	73.0	15.5
IFSI 90-1	6	153.4	83.9	3.5	16.1	52.7	73.0	15.6
IFSI 95-1	7	171.7	98.2	1.2	3.6	51.4	73.0	17.7
IFSI 97-1	8	169.9	89.9	1.2	12.3	49.4	73.0	16.7
NC+6990W	9	161.4	93.5	2.0	5.1	51.4	73.0	15.4
Pioneer Brand 32H39	10	155.5	96.4	1.9	3.7	47.5	71.3	15.3
Pioneer Brand 32K72	11	178.8	91.7	1.8	3.3	42.9	72.3	14.9
Pioneer Brand 32Y52	12	187.1	98.2	1.2	13.3	46.8	73.3	14.9
Pioneer Brand 33T17	13	174.7	98.2	1.3	16.5	47.5	72.0	14.5
Vineyard V433W	14	177.0	97.6	5.4	12.0	45.5	72.0	15.1
Vineyard V455W	15	180.1	88.1	5.1	18.4	50.1	72.7	15.3
Vineyard V462W	16	157.3	95.2	1.9	13.0	44.9	72.7	15.7
Vineyard Vx4359W	17	216.2	90.5	0.0	21.4	52.0	71.3	15.1
Whisnand 50AW	18	167.1	94.6	3.1	10.6	55.9	73.0	15.0
Whisnand 51AW	19	159.6	94.6	4.7	13.3	55.3	73.7	15.1
Zimmerman 1851W	20	173.0	76.2	4.0	9.5	50.1	74.0	15.2
Zimmerman N71-T7	21	159.8	96.4	3.8	19.7	51.4	72.3	14.8
Zimmerman Z62W	22	163.4	84.5	0.8	6.1	52.7	75.0	14.4
Zimmerman Z64W	23	160.2	95.8	0.0	10.5	54.0	75.0	15.8
Yellow check B73×Mo17	24	159.8	79.2	0.0	15.5	46.8	72.7	14.1
Yellow check Pioneer Brand 3394	25	162.5	100.0	0.0	8.3	46.2	71.3	14.3
Mean		167.8	91.4	1.8	11.4	49.0	72.8	15.3
LSD 0.05		30.8	ns	ns	10.6	2.8	1.2	0.5
CV%		11.2			56.7	3.5	1.0	2.2

Table 10. Yield and agronomic data from the 2000 Late White Food Corn Performance Test at Novelty, MO. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	142.5	100.0	0.0	13.6	42.3		15.7
Asgrow RX792W	2	153.5	99.4	0.0	24.1	49.4		16.5
Asgrow RX901W	3	142.1	98.1	0.0	15.9	49.4		17.5
Diener D 114W	4	119.9	93.8	0.0	41.8	45.5		15.9
Diener D 115W	5	127.5	98.8	0.0	42.4	48.1	·	16.8
IFSI 90-1	6	128.8	93.2	0.0	44.4	54.0		15.7
IFSI 95-1	7	135.7	99.4	0.0	28.5	51.4		18.7
IFSI 97-1	8	146.7	99.4	0.0	41.6	55.9		18.0
NC+ 6990W	9	119.3	89.5	0.0	13.8	50.1		17.1
Pioneer Brand 32H39	10	136.7	99.4	0.0	27.3	47.5	•	15.7
Pioneer Brand 32K72	11	163.8	100.0	0.0	17.3	48.8		15.7
Pioneer Brand 32Y52	12	150.6	98.8	0.0	24.4	49.4		16.2
Pioneer Brand 33T17	13	173.8	100.0	0.0	35.7	49.4		15.3
Vineyard V433W	14	140.4	100.0	0.0	41.4	46.8		16.2
Vineyard V455W	15	157.6^{\dagger}	98.8	0.0	33.8	53.3		17.1^{\dagger}
Vineyard V462W	16	142.7	96.9	0.0	16.2	43.6		16.5
Vineyard Vx4359W	17	133.7	98.8	0.0	63.5	52.0		16.0
Whisnand 50AW	18	144.4	96.9	0.0	50.3	59.8		15.6
Whisnand 51AW	19	121.3	98.8	0.0	39.8	55.9		16.0
Zimmerman 1851W	20	170.5	98.1	0.0	10.7	46.2	*	16.5
Zimmerman N71-T7	21	148.3	96.9	0.0	31.8	51.4	,	16.0
Zimmerman Z62W	22	147.4	94.4	0.0	7.8	50.7		15.3
Zimmerman Z64W	23	152.3	100.0	0.0	14.2	55.9		16.8
Yellow check B73×Mo17	24	116.2	87.7	0.0	37.8	50.7		15.1
Yellow check Pioneer Brand 3394	25	135.7	103.7	0.0	39.3	46.8	,	14.6
Mean		142.1	97.6	0.0	30.3	50.2		16.3
LSD 0.05		29.2	4.8	ns	21.9	3.5		0.8
CV%		12.6	3.0		44.3	4.2		2.9

[†] Data from two replications.

Table 11. Yield and agronomic data from the 2000 Late White Food Corn Performance Test at Tipton, MO. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	143.1	91.7	0.0	6.0	45.5		16.4
$Asgrow\ RX792W$	2	125.6^{\dagger}	91.1	0.0	19.1	49.4	:•.	16.3^{\dagger}
Asgrow RX901W	3	121.7	86.7	0.0	17.7	50.7		17.3
Diener D 114W	4	118.3	78.9	0.0	16.8	49.4		15.7
Diener D 115W	5	131.9	84.4	0.0	16.9	50.7	,	16.8
IFSI 90-1	6	116.5	78.9	0.0	19.3	55.9		16.7
IFSI 95-1	7	144.0	86.7	0.0	10.7	53.3		20.2
IFSI 97-1	8	153.2	86.7	0.0	19.8	55.9	<i>y</i>	19.2
NC+ 6990W	9	130.9	82.8	0.0	10.2	52.0		16.7
Pioneer Brand 32H39	10	144.4	92.2	1.2	9.1	50.7		16.3
Pioneer Brand 32K72	11	151.5	88.9	0.0	12.0	52.0		15.8
Pioneer Brand 32Y52	12	173.6	93.9	0.0	20.2	49.4		15.5
Pioneer Brand 33T17	13	143.1	92.2	0.0	22.1	49.4		15.8
Vineyard V433W	14	147.3	88.9	0.0	13.5	48.1		16.4
Vineyard V455W	15	112.6^{\dagger}	87.8	0.6	29.3	50.7		17.1^{\dagger}
Vineyard V462W	16	148.7^\dagger	92.8	0.0	13.4	44.2		16.8^{\dagger}
Vineyard Vx4359W	17	147.9	93.9	0.6	41.0	52.0		16.9
Whisnand 50AW	18	103.7	87.2	0.0	28.5	61.1		16.4
Whisnand 51AW	19	134.1	91.1	0.0	25.2	52.0		16.7
Zimmerman 1851W	20	166.5	92.2	0.0	10.3	50.7		17.1
Zimmerman N71-T7	21	138.7	89.4	1.9	14.2	49.4		16.0
Zimmerman Z62W	22	139.6	85.6	0.0	18.8	49.4		16.1
Zimmerman Z64W	23	149.7	83.9	0.7	20.3	52.0		17.5
Yellow check B73×Mo17	24	102.6	74.4	0.0	21.8	49.4		15.1
Yellow check Pioneer Brand 3394	25	135.7	87.2	0.0	21.1	49.4		15.2
Mean		137.0	87.6	0.2	18.3	50.9		16.6
LSD 0.05		20.8	7.4	ns	15.1	4.9		0.7
CV%		9.3	5.2		50.5	5.9		2.5

[†] Data from two replications.

Table 12. Yield and agronomic data from the 2000 Late White Food Corn Performance Test at Knoxville, TN. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	143.3	99.0	0.0	2.0		62.3	21.0
Asgrow RX792W	2	155.8	99.0	0.0	5.6		63.3	22.5
Asgrow RX901W	3	157.5	98.0	0.0	3.1		64.0	22.4
Diener D 114W	4	152.6	91.9	0.0	6.1		64.0	22.7
Diener D 115W	5	168.7	97.5	0.0	7.5		63.0	23.7
IFSI 90-1	6	148.7	92.9	0.0	7.7		64.0	23.6
IFSI 95-1	7	139.4	100.0	0.0	10.6		65.3	27.2
IFSI 97-1	8	154.4	98.5	0.0	10.9		65.0	26.1
NC+ 6990W	9	152.8	95.5	0.0	4.4		65.3	24.4
Pioneer Brand 32H39	10	158.2	101.0	0.0	5.4		63.3	22.1
Pioneer Brand 32K72	11	179.1	98.5	0.0	1.1		62.7	20.2
Pioneer Brand 32Y52	12	176.5	98.5	0.0	5.2		62.7	21.8
Pioneer Brand 33T17	13	168.3	98.0	0.0	10.5		61.3	19.4
Vineyard V433W	14	176.0	95.5	0.0	5.8		62.7	21.4
Vineyard V455W	15	145.4	84.3	0.0	11.0		64.0	23.2
Vineyard V462W	16	134.6	98.0	0.0	5.2		63.3	25.7
Vineyard Vx4359W	17	160.4	94.4	0.0	11.7		63.3	23.4
Whisnand 50AW	18	162.0	94.4	0.0	13.9		64.0	22.0
Whisnand 51AW	19	169.5	97.5	0.0	10.9		63.7	22.8
Zimmerman 1851W	20	164.1	97.0	0.0	9.9		65.7	24.6
Zimmerman N71-T7	21	173.7	95.5	0.0	0.6		62.7	22.3
Zimmerman Z62W	22	166.9	101.5	0.0	4.0		64.0	21.8
Zimmerman Z64W	23	130.7	99.0	0.0	4.6		64.7	24.6
Yellow check B73×Mo17	24	146.0	94.4	0.0	7.5		62.0	21.0
Yellow check Pioneer Brand 3394	25	180.0	98.0	0.0	5.7	,	62.7	18.2
Mean		158.6	96.7	0.0	6.8		63.6	22.7
LSD 0.05		20.8	ns	ns	5.8		1.7	1.5
CV%		8.0			51.8	741	1.7	4.0

Table 13. Yield and agronomic data from the 2000 Late White Food Corn Performance Test at Union City, TN. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	143.8	100.0			,	•	18.5
Asgrow RX792W	2	150.1	100.0					18.8
Asgrow RX901W	3	134.7	100.0					19.3
Diener D 114W	4	134.2	100.0					18.4
Diener D 115W	5	136.9	100.0	٠	•	٠		19.7
IFSI 90-1	6	135.5	100.0					18.8
IFSI 95-1	7	165.9	100.0					22.2
IFSI 97-1	8	159.0	100.0		•			21.7
NC+ 6990W	9	158.9	100.0				:#5	21.5
Pioneer Brand 32H39	10	156.1	100.0					17.5
Pioneer Brand 32K72	11	176.7	100.0					17.6
Pioneer Brand 32Y52	12	162.9	100.0					17.2
Pioneer Brand 33T17	13	178.6	100.0					17.3
Vineyard V433W	14	136.8	100.0					17.6
Vineyard V455W	15	165.3	100.0			•		19.0
Vineyard V462W	16	134.6	100.0					19.0
Vineyard Vx4359W	17	158.0	100.0					18.2
Whisnand 50AW	18	164.6	100.0				,	17.9
Whisnand 51AW	19	164.5	100.0					17.6
Zimmerman 1851W	20	179.6	100.0					21.0
Zimmerman N71-T7	21	189.3	100.0		,			18.8
Zimmerman Z62W	22	153.2	100.0		,			17.8
Zimmerman Z64W	23	162.9	100.0					20.1
Yellow check B73×Mo17	24	144.3	100.0					17.5
Yellow check Pioneer Brand 3394	25	152.2	100.0					15.9
Mean		155.9	100.0	,			,	18.8
LSD 0.05		19.3	ns					0.8
CV%		7.6						2.7

Table 14. Yield and agronomic data from the 2000 Late White Food Corn Performance Test at Halfway, TX. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	167.0	100.0		40.4	28.9	67.0	10.5
$Asgrow\ RX792W$	2	154.4	96.8		68.5	36.1	69.3	9.6
Asgrow RX901W	3	178.2	99.4		51.6	34.6	69.7	10.4
Diener D 114W	4	131.8	89.1		57.1	36.4	70.7	9.0
Diener D 115W	5	154.0	92.9		63.0	37.2	69.3	9.7
IFSI 90-1	6	136.7	96.8		41.3	45.9	69.7	10.4
IFSI 95-1	7	133.9	100.0		55.8	41.7	71.0	8.6
IFSI 97-1	8	160.5	100.0		53.2	43.3	71.3	9.2
NC+ 6990W	9	144.5	92.9		55.0	35.2	73.0	9.5
Pioneer Brand 32H39	10	162.8	100.0	•	51.9	40.4	69.7	9.7
Pioneer Brand 32K72	11	148.5	98.1		41.1	34.8	72.0	9.7
Pioneer Brand 32Y52	12	152.9	94.2		55.5	35.8	70.7	9.7
Pioneer Brand 33T17	13	155.2	100.0		60.9	38.7	69.3	9.6
Vineyard V433W	14	169.4	99.4		41.9	41.1	68.7	9.7
Vineyard V455W	15	129.8	100.0	•	69.2	40.3	70.3	8.8
Vineyard V462W	16	175.1	100.0		52.6	35.2	68.7	10.1
Vineyard Vx4359W	17	148.9	94.9		53.0	40.7	69.7	9.2
Whisnand 50AW	18	150.1	100.0		51.9	49.5	69.7	9.7
Whisnand 51AW	19	139.8	99.4		47.1	42.6	70.0	9.5
Zimmerman 1851W	20	144.9	97.4		53.6	38.1	72.0	9.5
Zimmerman N71-T7	21	168.6	99.4		0.7	41.6	68.7	9.9
Zimmerman Z62W	22	157.4	100.0		41.7	41.7	73.3	9.5
Zimmerman Z64W	23	151.7	96.2		50.0	42.9	73.7	9.8
Yellow check B73×Mo17	24	157.9	91.0		49.4	41.3	69.3	9.9
Yellow check Pioneer Brand 3394	25	140.8	98.7		66.8	36.4	70.0	8.6
Mean		152.6	97.5	•	50.9	39.2	70.3	9.6
LSD 0.05		27.8	5.6		19.8	4.1	2.3	ns
CV%		11.1	3.5		23.8	6.5	2.0	

Table 15. Yield and agronomic data from the 2000 Late White Food Corn Performance Test at Springlake, TX. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	203.7	97.7	0.0	1.6	39.0	69.0	14.3
Asgrow RX792W	2	185.6	97.7	0.0	4.7	45.3	69.3	14.6
Asgrow RX901W	3	205.8	94.2	0.0	2.5	52.7	70.7	15.5
Diener D 114W	4	171.9	81.8	0.0	2.8	47.3	69.7	13.6
Diener D 115W	5	174.7	90.7	0.0	4.6	47.7	71.3	14.1
IFSI 90-1	6	217.3	93.8	0.0	4.6	52.0	70.3	16.2
IFSI 95-1	7	182.7^{\dagger}	96.9	0.0	4.5	49.3	72.0	17.8^{\dagger}
IFSI 97-1	8	210.1^{\dagger}	89.5	0.0	3.0	59.0	71.0	16.2^{\dagger}
NC+ 6990W	9	195.7	87.2	0.0	2.9	50.7	72.0	15.0
Pioneer Brand 32H39	10	204.4	94.2	0.0	2.9	47.3	69.0	13.8
Pioneer Brand 32K72	11	211.7	93.8	0.0	5.9	53.0	69.0	13.5
Pioneer Brand 32Y52	12	211.9	96.9	0.0	2.4	48.3	69.0	15.8
Pioneer Brand 33T17	13	219.5	98.4	0.0	0.8	51.0	69.0	13.6
Vineyard V433W	14	222.8^{\dagger}	95.3	0.0	3.2	52.0	71.0	14.5^{\dagger}
Vineyard V455W	15	231.2^{\dagger}	95.3	0.0	1.2	56.0	70.0	14.8^{\dagger}
Vineyard V462W	16	201.5^{\dagger}	92.2	0.0	2.1	41.0	70.0	16.1^{\dagger}
Vineyard Vx4359W	17	226.7	89.5	0.0	4.3	55.0	71.7	14.1
Whisnand 50AW	18	231,1	95.3	0.0	4.4	55.3	72.3	14.1
Whisnand 51AW	19	215.2	96.9	0.0	5.6	56.7	71.0	14.6
Zimmerman 1851W	20	212.5	98.8	0.0	5.5	54.3	72.7	17.2
Zimmerman N71-T7	21	216.5	96.1	0.0	1.9	48.3	69.7	14.0
Zimmerman Z62W	22	220.4	97.3	0.0	7.2	54.3	74.0	15.3
Zimmerman Z64W	23	220.0	93.4	0.0	7.0	61.0	75.0	17.3
Yellow check B73×Mo17	24	194.3	81.4	0.0	4.3	47.7	69.3	12.5
Yellow check Pioneer Brand 3394	25	172.1	98.4	0.0	3.6	44.3	68.3	11.2
Mean		206.4	93.7	0.0	3.7	50.7	70.7	14.8
LSD 0.05		20.9	7.0	ns	ns	4.9	1.2	1.1
CV%		6.2	4.6			6.0	1.0	4.5

[†] Data from two replications.

Table 16. Combined yield and agronomic data from 12 locations of the 2000 Late White Food Corn Performance Test. New entries for 2000 are 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)
Asgrow RX776W	1	155.1	97.7	0.0	6.8	38.3	71.0	17.5	0.92	8.4
Asgrow RX792W	2	151.7	97.3	0.2	13.2	45.6	71.9	17.5	0.96	13.8
Asgrow RX901W	3	156.1	93.5	0.4	9.8	45.3	73.0	19.4	0.95	15.1
Diener D 114W	4	144.3	87.8	0.0	12.9	44.7	72.1	18.0	0.86	9.9
Diener D 115W	5	151.5	93.8	0.4	15.1	45.9	72.7	18.6	0.90	16.2
IFSI 90-1	6	147.1	90.7	0.4	13.5	50.2	72.6	17.8	1.03	12.5
IFSI 95-1	7	155.1	95.6	0.2	11.7	49.1	73.5	21.1	0.92	12.2
IFSI 97-1	8	161.4	93.9	0.5	14.0	51.0	73.3	20.2	0.80	9.2
NC+ 6990W	9	153.4	91.8	0.2	9.2	47.4	73.6	19.3	0.94	10.6
Pioneer Brand 32H39	10	159.1	96.8	0.6	9.7	45.2	71.0	16.9	1.01	7.0
Pioneer Brand 32K72	11	176.0	94.7	0.3	8.1	44.5	71.6	16.7	1.05	13.8
Pioneer Brand 32Y52	12	172.7	96.7	0.4	11.6	46.3	72.0	17.2	1.04	10.6
Pioneer Brand 33T17	13	174.2	96.1	0.3	14.1	45.6	71.3	16.2	1.03	15.7
Vineyard V433W	14	166.9	95.6	0.9	11.8	46.0	72.0	17.3	1.11	10.5
Vineyard V455W	15	162.8	93.1	0.7	15.6	49.3	72.0	18.0	1.21	15.1
Vineyard V462W	16	152.1	96.5	0.6	10.3	42.0	72.4	18.9	0.90	15.3
Vineyard Vx4359W	17	170.1	94.6	0.4	19.0	48.6	72.1	17.7	1.15	17.1
Whisnand 50AW	18	163.9	94.9	0.6	15.4	54.6	72.9	16.9	1.07	15.7
Whisnand 51AW	19	155.7	96.2	0.8	13.7	51.5	73.0	17.2	1.05	10.9
Zimmerman 1851W	20	174.2	94.9	0.4	9.9	47.6	73.6	19.5	0.98	13.5
Zimmerman N71-T7	21	167.7	95.5	1.0	7.8	47.9	71.8	17.3	1.06	18.0
Zimmerman Z62W	22	155.8	93.8	0.1	8.2	48.9	74.3	17.0	1.06	12.8
Zimmerman Z64W	23	163.0	94.6	0.3	10.7	51.5	74.2	19.4	1.02	14.8
Yellow check B73 × Mo17	24	144.9	87.0	0.4	13.4	46.7	71.4	16.5	1.08	13.3
Yellow check Pioneer Brand 3394	25	153.8	97.0	0.1	14.1	44.4	70.8	14.7	0.91	15.6
Mean		159.5	94.4	0.4	12.0	47.1	72.4	17.9	1.00	13.1
LSD 0.05		11.2	2.9	ns	5.4	2.1	1.1	1.1	0.07	
CV%		9.3	5.4		55.7	6.1	1.7	5.0		
Location means: Champaign, IL		151.6	97.1	1.4	3.2	56.7		24.8		
Winchester, IL		173.8	97.2	0.1	4.4	51.8		24.6		
Powhattan, KS		78.2	85.2	0.0	0.2	39.1	82.5	14.8		
Scandia, KS [†]		182.6	89.0	0.0	1.3	44.3	83.0	15.8		
Lexington, KY		208.0	100.0	0.6	1.2	39.4	64.1	20.4		
Columbia, MO		167.8	91.4	1.8	11.4	49.0	72.8	15.3		
Novelty, MO		142.1	97.6	0.0	30.3	50.2		16.3		
Tipton, MO		137.0	87.6	0.2	18.3	50.9		16.6		
Knoxville, TN		158.6	96.7	0.0	6.8		63.6	22.7		
Union City, TN		155.9	100.0					18.8		
Halfway, TX^{\dagger}		152.6	97.5		50.9	39.2	70.3	9.6		
Springlake, TX [†]		206.4	93.7	0.0	3.7	50.7	70.7	14.8		

 $^{^{\}dagger}$ Irrigated location.

Table 17. Yield data (bu/a) from 12 locations of the 2000 Late White Food Corn Performance Test. New entries for 2000 are shown in italics.

Entry	No.	Cham- paign, IL	Win- chester, IL	Pow- hattan KS	Scan- dia, KS [†]	Lexing- ton, KY	Co- lumbia, MO	Nov- elty, MO	Tip- ton, MO	Knox- ville TN	Union City, TN	Half- way, TX [†]	Spring- lake, TX [†]	Com- bined
Asgrow RX776W	1	146.4	166.1	75.8	174.9	195.9	158.3	142.5	143.1	143.3	143.8	167.0	203.7	155.1
Asgrow RX792W	2	125.4	156.8	70.5	199.3	198.8	144.8	153.5	125.6	155.8	150.1	154.4	185.6	151.7
Asgrow RX901W	3	167.3	150.7	79.2	182.1	203.8	149.6	142.1	121.7	157.5	134.7	178.2	205.8	156.1
Diener D 114W	4	155.8	151.9	75.9	164.4	196.2	158.7	119.9	118.3	152.6	134.2	131.8	171.9	144.3
Diener D 115W	5	128.6	158.7	75.3	163.9	203.4	194.0	127.5	131.9	168.7	136.9	154.0	174.7	151.5
IFSI 90-1	6	146.8	151.6	75.0	147.7	207.5	153.4	128.8	116.5	148.7	135.5	136.7	217.3	147.1
IFSI 95-1	7	165.0	163.7	74.0	177.8	207.6	171.7	135.7	144.0	139.4	165.9	133.9	182.7	155.1
IFSI 97-1	8	166.3	166.9	91.0	161.0	197.4	169.9	146.7	153.2	154.4	159.0	160.5	210.1	161.4
NC+ 6990W	9	166.3	174.2	72.3	179.8	184.4	161.4	119.3	130.9	152.8	158.9	144.5	195.7	153.4
Pioneer Brand 32H39	10	143.4	181.0	74.3	185.6	206.6	155.5	136.7	144.4	158.2	156.1	162.8	204.4	159.1
Pioneer Brand 32K72	11	164.9	208.5	86.4	227.2	215.4	178.8	163.8	151.5	179.1	176.7	148.5	211.7	176.0
Pioneer Brand 32Y52	12	159.3	186.3	81.2	206.8	223.2	187.1	150.6	173.6	176.5	162.9	152.9	211.9	172.7
Pioneer Brand 33T17	13	145.8	220.3	89.7	211.3	210.1	174.7	173.8	143.1	168.3	178.6	155.2	219.5	174.2
Vineyard V433W	14	158.6	191.2	78.0	185.4	219.8	177.0	140.4	147.3	176.0	136.8	169.4	222.8	166.9
Vineyard V455W	15	166.3	177.6	76.3	185.0	226.8	180.1	157.6	112.6	145.4	165.3	129.8	231.2	162.8
Vineyard V462W	16	141.2	154.6	74.1	153.9	206.7	157.3	142.7	148.7	134.6	134.6	175.1	201.5	152.1
Vineyard Vx4359W	17	176.0	172.1	84.7	178.0	238.1	216.2	133.7	147.9	160.4	158.0	148.9	226.7	170.1
Whisnand 50AW	18	172.3	182.5	89.3	198.5	201.1	167.1	144.4	103.7	162.0	164.6	150.1	231.1	163.9
Whisnand 51AW	19	142.4	174.5	76.6	163.6	207.7	159.6	121.3	134.1	169.5	164.5	139.8	215.2	155.7
Zimmerman 1851W	20	186.7	188.2	82.4	204.8	217.8	173.0	170.5	166.5	164.1	179.6	144.9	212.5	174.2
Zimmerman N71-T7	21	120.9	191.4	83.6	214.2	207.0	159.8	148.3	138.7	173.7	189.3	168.6	216.5	167.7
Zimmerman Z62W	22	122.4	161.1	65.0	182.0	190.9	163.4	147.4	139.6	166.9	153.2	157.4	220.4	155.8
Zimmerman Z64W	23	182.1	175.6	74.3	191.1	205.9	160.2	152.3	149.7	130.7	162.9	151.7	220.0	163.0
Yellow check B73×Mo17	24	118.1	161.5	69.9	156.9	211.8	159.8	116.2	102.6	146.0	144.3	157.9	194.3	144.9
Yellow check Pioneer Brand 3394	25	122.9	176.9	80.4	169.1	216.8	162.5	135.7	135.7	180.0	152.2	140.8	172.1	153.8
Mean		151.6	173.8	78.2	182.6	208.0	167.8	142.1	137.0	158.6	155.9	152.6	206.4	159.5
LSD 0.05		40.6	20.8	11.8	10.0	20.3	30.8	29.2	20.8	20.8	19.3	27.8	20.9	11.2
CV%		16.4	7.3	9.3	3.4	6.0	11.2	12.6	9.3	8.0	7.6	11.1	6.2	9.3

[†] Irrigated location.

Table 18. Yield (bu/a) data from the 2000 Late White Food Corn Performance Test at Halfway, TX. The low moisture stress regime was 80% replacement of measured evapotranspiration, the moderate moisture stress regime was 60% replacement, and the severe moisture stress regime was 50% replacement. New entries for 2000 are shown in italics.

		I	Moisture stress level				
Entry	No.	Low	Moderate	Severe			
Asgrow RX776W	1	167.0	140.7	77.9	HOUSE SHARE SHARE		
Asgrow RX792W	2	154.4	128.0	65.6			
Asgrow RX901W	3	178.2	140.6	82.9			
Diener D 114W	4	131.8	118.4	72.0			
Diener D 115W	5	154.0	131.1	55.9			
IFSI 90-1	6	136.7	100.1	53.6			
IFSI 95-1	7	133.9	97.8	63.9			
IFSI 97-1	8	160.5	113.8	67.5			
NC+ 6990W	9	144.5	137.9	66.4			
Pioneer Brand 32H39	10	162.8	130.2	64.2			
Pioneer Brand 32K72	11	148.5	121.5	61.3			
Pioneer Brand 32Y52	12	152.9	133.0	67.2			
Pioneer Brand 33T17	13	155.2	127.9	56.0			
Vineyard V433W	14	169.4	105.3	69.3			
Vineyard V455W	15	129.8	131.2	61.7			
Vineyard V462W	16	175.1	122.8	75.0			
Vineyard Vx4359W	17	148.9	133.9	56.8			
Whisnand 50AW	18	150.1	134.9	77.0			
Whisnand 51AW	19	139.8	106.9	57.7			
Zimmerman 1851W	20	144.9	127.2	67.7			
Zimmerman N71-T7	21	168.6	146.4	74.1			
Zimmerman Z62W	22	157.4	124.3	58.8			
Zimmerman Z64W	23	151.7	104.1	58.1			
Yellow check B73 × Mo17	24	157.9	130.9	68.0			
Yellow check Pioneer Brand 3394	25	140.8	118.6	61.5			
Mean		152.6	124.3	65.6			
LSD 0.05		27.8	26.6	15.2			
CV%		11.1	13.1	14.2			

Table 19. European corn borer whorl-leaf feeding and stalk tunneling data from Columbia and Marshall, MO, for the 2000 Late White Food Corn Performance Test. New entries for 2000 are shown in italics.

		(Columbia	a		Marshal	l	(Combined		
Entry	No.	Leaf feeding (1-9)	No. of tunnels (no)	Tunnel length (in)	Leaf feeding (1-9)	No. of tunnels (no)	Tunnel length (in)		tunnels (no)	Tunnel length (in)	
Asgrow RX776W	1	3.7	0.3	0.4	3.0	2.1	2.3	3.3	1.2	1.4	
Asgrow RX792W	2	4.7	1.1	1.3	4.7	1.7	2.1	4.7	1.4	1.7	
Asgrow RX901W	3	3.0	0.5	0.5	2.7	1.6	2.3	2.8	1.0	1.4	
Diener D 114W	4	6.7	0.3	0.3	4.7	1.5	1.5	5.7	0.9	0.9	
Diener D 115W	5	6.7	1.1	1.2	5.3	1.6	1.9	6.0	1.4	1.6	
IFSI 90-1	6	4.7	0.6	0.6	4.3	0.8	0.9	4.5	0.7	0.8	
IFSI 95-1	7	5.0	0.1	0.1	4.7	1.5	1.6	4.8	0.8	0.8	
IFSI 97-1	8	4.0	0.3	0.4	3.7	1.8	2.1	3.8	1.0	1.3	
NC+ 6990W	9	5.7	0.5	0.5	4.0	1.1	1.4	4.8	0.8	0.9	
Pioneer Brand 32H39	10	4.3	0.7	0.7	4.3	1.8	2.7	4.3	1.2	1.7	
Pioneer Brand 32K72	11	3.3	0.3	0.3	3.7	2.1	2.8	3.5	1.2	1.6	
Pioneer Brand 32Y52	12	4.7	0.1	0.1	3.3	1.5	1.9	4.0	0.8	1.0	
Pioneer Brand 33T17	13	4.0	0.3	0.3	2.7	1.4	1.9	3.3	0.8	1.1	
Vineyard V433W	14	3.7	0.7	0.8	3.7	1.1	1.1	3.7	0.9	1.0	
Vineyard V455W	15	3.7	0.5	0.5	3.7	1.9	2.1	3.7	1.2	1.3	
Vineyard V462W	16	4.0	1.2	1.5	4.0	1.5	2.3	4.0	1.3	1.9	
Vineyard Vx4359W	17	4.0	0.7	0.7	4.0	1.7	2.1	4.0	1.2	1.4	
Whisnand 50AW	18	5.0	0.6	0.8	4.3	1.9	1.9	4.7	1.2	1.4	
Whisnand 51AW	19	5.7	0.7	0.9	4.7	1.6	1.9	5.2	1.2	1.4	
Zimmerman 1851W	20	4.0	0.5	0.5	3.3	1.3	1.5	3.7	0.9	1.0	
Zimmerman N71-T7	21	1.0	0.1	0.1	1.0	0.2	0.2	1.0	0.1	0.1	
Zimmerman Z62W	22	3.3	0.4	0.4	3.3	1.4	1.8	3.3	0.9	1.1	
Zimmerman Z64W	23	3.7	0.3	0.3	4.0	1.8	2.6	3.8	1.1	1.5	
Yellow check $B73 \times Mo17$	24	5.3	0.7	0.8	4.3	1.7	1.8	4.8	1.2	1.3	
Yellow check Pioneer Brand 3394	25	5.3	0.7	0.7	5.0	1.8	2.5	5.2	1.2	1.6	
Susc. check Wf9 × W182E		5.0	1.9	2.1	5.0	3.5	4.3	5.0	2.7	3.2	
Rest. check Mycogen 7250		3.7	0.2	0.2	2.7	1.7	2.1	3.2	0.9	1.2	
Rest. check Pioneer Brand 3184		3.7	0.3	0.4	3.3	1.4	1.5	3.5	0.9	1.0	
Mean		4.3	0.6	0.6	3.8	1.6	2.0	4.1	1.1	1.3	
LSD 0.05		1.3	0.7	0.7	0.9	1.0	ns	0.8	0.6	0.9	
CV%		18.4	72.9	72.5	15.0	37.3		17.0	47.3	58.6	

Table 20. Corn earworm damage, percentage molded grain, and ear length data from the 2000 Late White Food Corn Performance Test at Lubbock, TX. New entries for 2000 are shown in italics.

Entry	No.	CEW damage (inches)	Molded grain (%)	Ear length (inches)
Asgrow RX776W	1	2.4	2.7	6.7
Asgrow RX792W	2	2.9	4.0	7.0
Asgrow RX901W	3	2.4	3.3	6.9
Diener D 114W	4	2.4	4.3	6.8
Diener D 115W	5	2.6	3.7	6.5
IFSI 90-1	6	3.9	5.7	7.7
IFSI 95-1	7	3.2	4.3	7.2
IFSI 97-1	8	3.2	6.3	6.9
NC+ 6990W	9	2.1	2.7	6.6
Pioneer Brand 32H39	10	2.6	3.7	6.4
Pioneer Brand 32K72	11	2.7	3.3	7.0
Pioneer Brand 32Y52	12	3.2	2.7	7.3
Pioneer Brand 33T17	13	2.4	3.0	7.2
Vineyard V433W	14	3.8	4.7	7.9
Vineyard V455W	15	3.6	5.0	7.6
Vineyard V462W	16	3.4	5.0	7.2
Vineyard Vx4359W	17	3.4	4.7	8.0
Whisnand 50AW	18	3.3	3.3	7.3
Whisnand 51AW	19	3.4	4.3	7.2
Zimmerman 1851W	20	2.0	2.0	6.7
Zimmerman N71-T7	21	3.1	3.7	7.0
Zimmerman Z62W	22	3.6	3.3	7.2
Zimmerman Z64W	23	3.5	7.0	6.4
Yellow check B73 × Mo17	24	4.2	6.7	7.0
Yellow check Pioneer Brand 3394	25	3.4	3.0	7.1
Mean		3.1	4.1	7.1
LSD 0.05		1.1	2.5	0.5
CV%		21.7	36.7	4.4

Table 21. Reactions to Stewart's bacterial wilt inoculation and natural gray leaf spot at Urbana, IL, for entries in the Late and Early White Food Corn Performance Tests and for 64 other white food corn hybrids. New entries for 2000 are shown in italics.

Entry	No.	Stewart's wilt [†] (1-9 rating)	Gray leaf spot [‡] (1-9 rating)
Late	White Food C	orn Performance Test	
Asgrow RX776W	1	3.3	2.6
Asgrow RX792W	2	3.1	3.0
Asgrow RX901W	3	3.7	1.9
Diener D 114W	4	2.8	2.9
Diener D 115W	5	2.8	2.5
FSI 90-1	6	2.3	3.1
FSI 95-1	7	2.6	3.6
FSI 97-1	8	2.3	4.3
VC+ 6990W	9	2.8	1.5
Pioneer Brand 32H39	10	3.5	3.3
Pioneer Brand 32K72	11	3.3	3.5
Pioneer Brand 32Y52	12	2.8	3.1
Pioneer Brand 33T17	13	3.5	3.5
Vineyard V433W	14	3.1	3.9
/ineyard V455W	15	2.8	3.9
Vineyard V462W	16	2.8	3.1
/ineyard Vx4359W	17	3.3	3.9
Whisnand 50AW	18	2.4	4.5
Whisnand 51AW	19	2.5	3.5
Zimmerman 1851W	20	3.1	2.0
Zimmerman N71-T7	21	2.8	3.0
Zimmerman Z62W	22	2.6	2.3
Zimmerman Z64W	23	3.1	2.3
Yellow check B73 × Mo 17	24	3.1	4.0
Kellow check Pioneer Brand 3394	4 25	3.8	6.3
Mean		2.9	3.3

Table 21. Continued

Entry	No.	Stewart's wilt [†] (1-9 rating)	Gray leaf spot [‡] (1-9 rating)
Early	White Food (Corn Performance Test	conditioned and the get first supplicative appetrace abstract on participation and general relations are not a
Asgrow RX776W	1	3.3	2.6
Diener D 114W	2	2.8	2.9
Diener D 115W	3	2.8	2.5
IFSI 90-1	4	2.3	3.1
IFSI 95-2	5	2.7	4.3
NC+ 4089W	6	2.8	5.4
NC+ 4950W	7	3.0	6.0
Pioneer Brand 32H39	8	3.5	3.3
Pioneer Brand 32K72	9	3.3	3.5
Pioneer Brand 32Y52	10	2.8	3.1
Pioneer Brand 33T17	11	3.5	3.5
Pioneer Brand 34P93	12	3.7	4.3
Pioneer Brand X1128BW	13	3.8	3.9
Vineyard V433W	14	3.1	3.9
Vineyard Vx4319W	15	2.5	3.9
Vineyard Vx4359W	16	3.3	3.9
Whisnand 50AW	17	2.4	4.5
Whisnand 51AW	18	2.5	3.5
Zimmerman 1780W	19	2.7	3.5
Zimmerman 1790W	20	2.7	3.0
Zimmerman N71-T7	21	2.8	3.0
Zimmerman Z62W	22	2.6	2.5
Zimmerman Z75W	23	3.2	2.4
Zimmerman Z76W	24	3.0	2.6
Yellow check B73 \times Mo17	25	3.1	4.0
Yellow check Pioneer Brand 3394	1 26	3.8	6.1
Mean		3.0	3.7

Table 21. Continued

Entry	No.	Stewart's wilt † (1-9 rating)	Gray leaf spot [‡] (1-9 rating)
TO STORM COLOR OF COL	Other White Fo	ood Corn Hybrids	
AgriGold A6530W	1	2.8	3.5
AgriGold A6680W	2	1.9	3.9
Asgrow XP7308W	3	3.7	1.9
Asgrow XP8118W	4	3.0	3.1
DEKALB DK555W	5	3.3	4.9
DEKALB DK631W	6	3.5	5.0
DEKALB DK665W	7	2.6	2.6
DEKALB DK703W	8	2.2	3.3
DEKALB DK739W	9	3.2	4.8
DEKALB DK742W	10	2.4	3.6
DEKALB EXP866W	11	2.8	4.3
DEKALB EXP868W	12	2.3	4.3
Exsegen Brand ES241W	13	2.4	4.3
Garst 8277W	14	2.9	2.1
Garst 8419W	15	2.6	3.3
Garst 8490W	16	2.3	3.8
Garst 8527W	17	2.8	4.1
Garst N6278W	18	2.5	4.1
IFSI 98-1	19	2.4	3.8
IFSI 98-2	20	1.9	3.1
IFSI 98-3	21	2.8	3.5
IFSI 98-4	22	2.9	3.6
IFSI 98-5	23	2.5	3.4
LG Seeds LG2558W	24	3.1	4.1
LG Seeds LG2596W	25	3.0	4.6
LG Seeds NB749W	26	2.3	4.3
NC+ 5633W	27	2.8	4.5
NC+ 6989W	28	3.1	1.9
NC+ RE652W	29	3.2	4.6
Zimmerman (Novartis) N71-T7	30	2.9	3.4
Pioneer Brand 3203W	31	3.2	2.6
Pioneer Brand 3245 (yellow)	32	3.6	3.8
Pioneer Brand 3283W	33	2.8	3.8
Pioneer Brand 3287W	34	3.3	4.3
Pioneer Brand 32Y65	35	3.6	3.6
Pioneer Brand 3392W	36	3.1	4.7
Pioneer Brand 3443W	37	3.3	3.6
Pioneer Brand 3463W	38	3.3	4.8
Pioneer Brand X1127DW	39	3.7	5.4
Pioneer Brand X1127FW	40	3.4	4.8

Table 21. Continued

Entry	No.	Stewart's wilt [†] (1-9 rating)	Gray leaf spot [‡] (1-9 rating)
	Other White F	ood Corn Hybrids	
Pioneer Brand X1138AW	41	4.2	3.6
Pioneer Brand X1167BW	42	3.1	4.3
Pioneer Brand X1177PW	43	2.8	3.3
Tennessee TN 98-1	44	2.8	3.8
Trisler 4113W	45	2.6	3.4
Trisler 4211W	46	2.5	3.6
Trisler 4214W	47	2.4	3.0
Vineyard V413W	48	3.1	3.3
Vineyard V414W	49	3.1	3.5
Vineyard V424W	50	2.8	4.4
Vineyard V438W	51	2.8	4.8
Vineyard V448W	52	3.3	4.8
Vineyard V449W	53	2.9	3.8
Vineyard V453W	54	3.3	4.4
Vineyard Vx4337	55	3.3	3.5
Vineyard Vx4517	56	3.0	4.8
Vineyard Vx4548W	57	2.9	3.8
Vineyard Vx4596	58	2.8	3.1
Vineyard Vx4618W	59	2.5	4.5
Wilson 1780W	60	2.7	2.9
Wilson 1790W	61	2.7	3.3
Wilson E8051	62	3.1	1.6
Zimmerman NX7208	63	2.9	3.3
Zimmerman Z74W	64	3.2	2.5
Mean		2.9	3.7
Checks:			
Bonus (resistant)		2.6	*
Jubilee (susceptible)		6.6	-
Overall mean		3.0	3.6
LSD 0.05		0.6	0.9
CV%		13.2	17.2

 $^{^{\}dagger}$ Stewart's wilt rated on a scale from 1 to 9 where 1 = little or no spread of *E. stewartii* and 9 = 90-100% symptomatic leaf tissue or plants dead from systemic infection.

Ratings correspond approximately to the square root of the percentage of leaf area blighted.

Table 22. Combined grain quality data from the 2000 Late White Food Corn Performance Test grown at Lexington, KY; Columbia, MO; Knoxville, TN; and Springlake, TX.

Entry	No.	Test weight (lb/bu)	100-kernel weight (g)	Kernel size (cc)	$ ext{Thins}^{\dagger} \ (\%)$	Kernel density (g/cc)	Horny endosp. (%)
Asgrow RX776W	1	61.9	31.8	0.24	55.1	1.33	89
Asgrow RX792W	2	63.7	29.6	0.22	63.6	1.34	90
Asgrow RX901W	3	63.9	33.7	0.25	43.2	1.34	91
Diener D 114W	4	61.3	33.0	0.25	17.8	1.30	85
Diener D 115W	5	61.6	33.9	0.26	18.8	1.31	85
IFSI 90-1	6	62.8	35.5	0.27	22.5	1.32	86
IFSI 95-1	7	64.1	35.6	0.27	20.6	1.34	91
IFSI 97-1	8	63.4	31.9	0.24	51.5	1.32	90
NC+ 6990W	9	64.6	33.7	0.25	25.9	1.35	91
Pioneer Brand 32H39	10	62.9	34.5	0.26	43.9	1.33	90
Pioneer Brand 32K72	11	63.1	37.4	0.28	30.4	1.32	91
Pioneer Brand 32Y52	12	63.3	40.0	0.30	14.7	1.33	90
Pioneer Brand 33T17	13	62.5	35.3	0.27	38.4	1.31	91
Vineyard V433W	14	62.6	35.2	0.27	61.8	1.31	88
Vineyard V455W	15	63.6	36.1	0.28	42.1	1.32	89
Vineyard V462W	16	61.5	38.5	0.30	24.1	1.30	88
Vineyard Vx4359W	17	61.6	35.0	0.27	64.5	1.30	86
Whisnand 50AW	18	62.8	35.4	0.27	31.9	1.32	86
Whisnand 51AW	19	63.4	36.4	0.27	24.5	1.33	88
Zimmerman 1851W	20	61.5	39.5	0.30	9.1	1.33	88
Zimmerman N71-T7	21	62.6	32.0	0.24	51.2	1.31	84
Zimmerman Z62W	22	61.6	37.7	0.29	9.7	1.32	90
Zimmerman Z64W	23	61.5	37.1	0.28	11.4	1.32	90
Yellow check B73 × Mo17	24	59.4	35.0	0.28	34.7	1.27	79
Yellow check Pioneer Brand 3394	25	61.8	38.8	0.30	21.7	1.31	86
Mean		62.5	35.3	0.26	33.3	1.32	88
LSD 0.05		0.9	2.3	0.02	14.8	0.01	4
CV%		1.0	4.7	4.8	31.4	0.8	3.1

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

Table 23. Yield and agronomic data from common entries in the 1999-2000 Late White Food Corn Performance Tests.

Entry	Years (no)	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX901W	2	146.8	93.7	0.4	5.9	44.5	72.6	18.9
Diener D 114W	2	140.6	89.7	0.0	8.0	43.4	71.7	17.9
IFSI 90-1	2	142.7	89.9	0.3	9.0	48.4	72.2	17.5
IFSI 95-1	2	139.9	94.5	0.3	6.8	47.3	73.4	21.1
IFSI 97-1	2	152.0	89.6	0.6	8.6	48.3	72.3	20.1
Pioneer Brand 32H39	2	149.8	95.7	1.5	5.8	44.2	70.7	16.8
Pioneer Brand 32K72	2	162.1	94.8	0.2	5.3	43.2	71.1	16.4
Pioneer Brand 32Y52	2	157.0	94.5	0.7	8.9	44.8	71.8	17.0
Pioneer Brand 33T17	2	166.8	94.8	1.9	10.0	45.2	70.8	16.1
Vineyard V433W	2	156.7	95.4	0.7	7.7	44.3	71.4	17.5
Vineyard V462W	2	141.3	94.2	0.4	5.8	41.3	72.2	18.7
Whisnand 50AW	2	151.2	92.8	0.8	9.4	51.6	72.4	17.2
Whisnand 51AW	2	147.6	96.6	0.6	9.7	49.7	72.5	17.2
Zimmerman 1851W	2	162.3	92.1	1.0	5.8	46.2	73.6	19.4
Zimmerman N71-T7	2	155.6	93.9	0.9	5.1	46.9	71.3	17.2
Zimmerman Z62W	2	144.7	93.0	0.2	5.5	47.6	74.3	16.8
Yellow check B73 × Mo17	2	137.4	88.3	0.8	8.3	44.9	71.4	16.4
Yellow check Pioneer Brand 3394	2	147.0	96.9	0.1	8.0	44.3	70.5	14.7
Mean	igidayahari sabaga karibu salari kebanasan farasa ka	150.1	93.3	0.6	7.4	45.9	72.0	17.6

Table 24. Yield and agronomic data from common entries in the 1998-2000 Late White Food Corn Performance Tests.

Entry	Years (no)	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX901W	3	148.5	94.6	0.3	4.8	44.5	73.4	19.7
IFSI 90-1	3	145.1	90.8	0.7	7.8	47.4	73.0	18.2
IFSI 95-1	3	146.1	94.4	0.4	5.5	46.8	74.2	21.5
Pioneer Brand 32H39	3	152.3	96.3	2.2	5.6	44.0	71.4	17.2
Pioneer Brand 32Y52	3	161.7	94.6	0.5	7.7	45.3	72.6	17.3
Vineyard V433W	3	156.4	95.3	1.0	8.0	43.8	72.0	17.8
Whisnand 50AW	3	156.3	94.5	1.8	7.7	51.2	73.1	17.6
Whisnand 51AW	3	151.9	96.0	0.5	8.5	48.7	73.3	17.8
Zimmerman 1851W	3	164.9	92.8	1.0	4.6	45.7	74.8	20.0
Zimmerman N71-T7	3	158.2	94.9	1.4	4.8	46.2	72.2	17.4
Zimmerman Z62W	3	147.7	94.3	0.2	5.5	47.0	75.2	17.6
Yellow check B73×Mo17	3	142.9	91.2	0.9	8.5	44.7	72.2	16.4
Yellow check Pioneer Brand 3394	3	148.4	97.4	0.2	7.8	43.9	71.6	14.9
Mean		152.3	94.4	0.9	6.7	46.1	73.0	18.0

Table 25. Yield and agronomic data from common entries in the 1997-2000 Late White Food Corn Performance Tests.

Entry	Years (no)	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
IFSI 90-1	4	148.1	91.7	0.6	7.5	48.9	74.8	18.5
IFSI 95-1	4	149.0	94.6	0.4	5.6	47.6	76.2	21.8
Pioneer Brand 32H39	4	156.5	96.0	2.2	4.6	44.4	73.5	17.6
Whisnand 50AW	4	155.9	94.7	2.0	6.7	52.3	75.2	17.9
Whisnand 51AW	4	151.6	96.0	0.9	7.5	49.7	75.2	18.3
Zimmerman Z62W	4	150.3	94.4	0.3	4.5	47.9	77.0	18.0
Yellow check B73 × Mo17	4	143.4	92.6	1.2	8.3	46.2	74.3	16.8
Yellow check Pioneer Brand 3394	4	153.3	97.5	0.3	6.4	44.6	73.6	15.3
Mean		151.0	94.7	1.0	6.4	47.7	75.0	18.0

Table 26. Yield and agronomic data from common entries in the 1996-2000 Late White Food Corn Performance Tests.

Entry	Years (no)	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
IFSI 90-1	5	152.3	92.8	0.6	8.0	49.0	74.5	18.6
IFSI 95-1	5	151.6	94.8	0.3	6.2	47.2	75.8	21.8
Pioneer Brand 32H39	5	160.5	96.6	2.0	5.5	44.2	72.9	17.9
Whisnand 51AW	5	153.0	96.0	0.8	8.0	49.4	74.9	18.5
Zimmerman Z62W	5	154.5	95.0	0.2	5.1	47.6	76.5	18.2
Yellow check B73 × Mo17	5	145.3	92.8	1.0	8.3	46.1	73.8	17.0
Yellow check Pioneer Brand 3394	5	156.2	97.5	0.3	6.6	44.3	73.0	15.7
Mean		153.3	95.1	0.8	6.8	46.8	74.5	18.2

Table 27. Yield and agronomic data from the 2000 Early White Food Corn Performance Test at Champaign, IL. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	164.9	93.2	0.5	5.0	45.7	•	25.4
Diener D 114W	2	131.0	93.7	0.0	4.0	52.0		26.3
Diener D 115W	3	164.2	97.7	0.0	3.3	54.3		26.8
IFSI 90-1	4	115.0	93.7	2.4	2.9	62.0		23.6
IFSI 95-2	5	171.2	98.2	1.0	1.4	66.3		22.9
NC+ 4089W	6	124.2	87.8	0.0	1.6	41.7	•	17.4
NC+ 4950W	7	159.4	95.9	0.0	3.8	56.3		19.5
Pioneer Brand 32H39	8	148.2	94.6	0.0	5.2	54.3		21.1
Pioneer Brand 32K72	9	145.4	97.7	0.0	4.6	50.3		22.7
Pioneer Brand 32Y52	10	162.3	99.1	0.0	3.7	52.0		22.8
Pioneer Brand 33T17	11	133.8	96.4	2.3	3.3	59.0		22.7
Pioneer Brand 34P93	12	158.9	94.1	0.0	5.7	48.7		21.0
Pioneer Brand X1128BW	13	98.8	97.3	2.3	4.6	45.7		18.5
Vineyard V433W	14	123.0	97.3	0.0	4.2	50.7		24.1
Vineyard Vx4319W	15	148.7	95.5	3.7	7.5	55.0	•	21.3
Vineyard Vx4359W	16	160.4	98.6	0.0	4.0	57.0	,	24.2
Whisnand 50AW	17	180.7	98.2	0.5	2.3	65.0		22.8
Whisnand 51AW	18	142.1	98.2	2.3	2.3	56.0		22.5
Zimmerman 1780W	19	138.3	98.6	1.3	4.5	59.3		25.5
Zimmerman 1790W	20	188.7	93.2	0.0	3.4	57.7		26.1
Zimmerman N71-T7	21	184.7	92.3	1.5	4.9	59.7	,	23.2
Zimmerman Z62W	22	149.5	95.5	0.0	1.9	57.0		26.6
Zimmerman Z75W	23	183.7	95.5	0.0	2.8	55.0		26.0
Zimmerman Z76W	24	127.0	99.1	2.2	1.8	56.3		21.3
Yellow check $B73 \times Mo17$	25	114.8	89.2	2.4	1.9	56.0		21.2
Yellow check Pioneer Brand 3394	26	98.5	96.8	0.9	6.1	53.7		15.7
Mean		146.8	95.7	0.9	3.7	54.9		22.7
LSD 0.05		50.6	ns	ns	ns	7.4		2.3
CV%		21.1				8.3		6.1

Table 28. Yield and agronomic data from the 2000 Early White Food Corn Performance Test at Geneseo, IL. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	133.1	88.8			•		21.4
Diener D 114W	2	101.3	87.5					22.1
Diener D 115W	3	109.2	84.6	,				22.1
IFSI 90-1	4	91.5	84.6	,				19.2
IFSI 95-2	5	102.1	88.3					18.8
NC+ 4089W	6	106.2	86.3					15.2
NC+ 4950W	7	114.7	87.9				-	16.9
Pioneer Brand 32H39	8	139.4	92.9					17.8
Pioneer Brand 32K72	9	166.3	90.4					21.0
Pioneer Brand 32Y52	10	131.3	85.0					20.1
Pioneer Brand 33T17	11	170.1	91.3					19.0
Pioneer Brand 34P93	12	141.4	88.3					19.5
Pioneer Brand X1128BW	13	154.8	92.1					18.4
Vineyard V433W	14	139.3	91.3					20.6
Vineyard Vx4319W	15	132.6	85.8					20.0
Vineyard Vx4359W	16	142.4	84.2					20.5
Whisnand 50AW	17	120.5	92.5					19.4
Whisnand 51AW	18	106.0	77.9					19.6
Zimmerman 1780W	19	121.2	92.1	·				22.2
Zimmerman 1790W	20	142.3	89.6	·				21.5
Zimmerman N71-T7	21	124.9	86.3					22.2
Zimmerman Z62W	22	102.6	83.3					20.7
Zimmerman Z75W	23	110.9	94.2					19.2
Zimmerman Z76W	24	109.8	89.6					18.4
Yellow check $B73 \times Mo17$	25	112.3	91.3					18.7
Yellow check Pioneer Brand 3394	26	131.7	90.8				•	15.8
Mean		125.3	88.3					19.6
LSD 0.05		24.2	ns					1.7
CV%		11.8		,				5.4

Table 29. Yield and agronomic data from the 2000 Early White Food Corn Performance Test at Harlan, IA. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	188.1	86.1	0.0	0.0		*	20.1
Diener D 114W	2	189.5	72.8	0.0	0.0			17.7
Diener D 115W	3	211.3	85.6	0.0	1.3			17.5
IFSI 90-1	4	185.1	80.0	0.0	0.0	,		15.6
IFSI 95-2	5	171.2	92.2	0.0	0.6			16.5
NC+ 4089W	6	163.0	90.6	0.0	0.0			14.0
NC+ 4950W	7	170.3	86.1	0.0	0.0			14.4
Pioneer Brand 32H39	8	169.9	96.1	0.0	0.0			17.8
Pioneer Brand 32K72	9	166.2	89.4	0.0	1.9			19.6
Pioneer Brand 32Y52	10	171.3	88.3	0.0	0.7			17.5
Pioneer Brand 33T17	11	169.2	88.9	0.0	1.7			16.5
Pioneer Brand 34P93	12	165.2	92.8	0.0	0.6			17.6
Pioneer Brand X1128BW	13	151.0	93.3	0.0	0.0			18.6
Vineyard V433W	14	183.5	78.3	0.0	0.0			18.5
Vineyard Vx4319W	15	170.8	86.1	0.0	0.0			17.3
Vineyard Vx4359W	16	178.4	93.9	0.0	0.0			18.2
Whisnand 50AW	17	173.3	82.8	0.0	0.0			16.4
Whisnand 51AW	18	171.0	91.7	0.0	0.5			16.5
Zimmerman 1780W	19	203.6	90.0	0.0	1.2			18.5
Zimmerman 1790W	20	198.1	91.7	0.0	1.1			17.7
Zimmerman N71-T7	21	184.9	85.0	0.0	0.0			14.6
Zimmerman Z62W	22	197.6	76.7	0.0	0.0			14.7
Zimmerman Z75W	23	196.6	83.9	0.0	0.0			22.6
Zimmerman Z76W	24	171.3	95.0	0.0	0.6			14.2
Yellow check $B73 \times Mo17$	25	177.8	67.2	0.0	0.8			15.2
Yellow check Pioneer Brand 3394	26	150.9	95.6	0.0	1.8			15.0
Mean		178.1	86.9	0.0	0.5			17.0
LSD 0.05		14.2	11.0	ns	ns			4.0
CV%		4.9	7.7					14.3

Table 30. Yield and agronomic data from the 2000 Early White Food Corn Performance Test at Marion, IA. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	177.4	100.0	•		44.7	82.3	23.0
Diener D 114W	2	160.9	85.5			52.0	85.0	21.5
Diener D 115W	3	162.7	97.0			54.3	83.0	22.4
IFSI 90-1	4	145.2	81.2			57.7	85.3	21.8
IFSI 95-2	5	174.5	91.5			66.0	84.0	17.2
NC+ 4089W	6	138.2	97.6	,		45.7	80.3	15.1
NC+ 4950W	7	147.5	96.4			57.3	80.3	16.1
Pioneer Brand 32H39	8	184.9	98.2			51.3	81.0	18.6
Pioneer Brand 32K72	9	213.6	100.0			56.7	83.0	20.3
Pioneer Brand 32Y52	10	196.8	99.4			57.3	83.0	21.1
Pioneer Brand 33T17	11	193.5	100.0		,	51.0	81.0	17.6
Pioneer Brand 34P93	12	182.6	100.0	,		51.7	80.3	17.9
Pioneer Brand X1128BW	13	187.1	100.0			48.7	82.0	17.8
Vineyard V433W	14	136.7	94.5			49.0	82.7	18.0
Vineyard Vx4319W	15	163.5	96.4			54.3	82.7	17.4
Vineyard Vx4359W	16	111.6	99.4		,	51.3	82.3	18.0
Whisnand 50AW	17	182.0	97.0			65.0	84.3	17.3
Whisnand 51AW	18	179.2	100.0			62.0	87.0	19.3
Zimmerman 1780W	19	161.2	99.4			53.7	85.3	22.6
Zimmerman 1790W	20	153.8	99.4			57.3	84.3	21.8
Zimmerman N71-T7	21	155.2	98.2			56.3	83.3	18.6
Zimmerman Z62W	22	148.0	95.8			60.0	89.0	20.8
Zimmerman Z75W	23	142.2	94.5			61.0	89.7	19.4
Zimmerman Z76W	24	137.9	99.4			58.7	86.7	16.9
Yellow check $B73 \times Mo17$	25	147.4	95.8			59.3	82.0	17.3
Yellow check Pioneer Brand 3394	26	119.9	100.0			54.7	82.3	14.0
Mean		161.7	96.8			55.3	83.6	18.9
LSD 0.05		23.0	6.4			4.6	1.5	1.7
CV%		8.7	4.1			5.0	1.1	5.4

Table 31. Yield and agronomic data from the 2000 Early White Food Corn Performance Test at Ogden, IA. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	109.5	94.3	0.0	14.0	•		17.6
Diener D 114W	2	122.5	70.1	5.4	10.8		,	21.4
Diener D 115W	3	117.5	90.8	0.0	16.0			19.3
IFSI 90-1	4	102.5	71.8	5.0	17.5		,	16.2
IFSI 95-2	5	122.5	91.4	3.7	14.6			15.7
NC+ 4089W	6	117.6	93.7	0.6	8.1			13.5
NC+ 4950W	7	102.0	93.1	0.0	8.7			14.2
Pioneer Brand 32H39	8	108.6	90.2	7.0	17.7		,	14.2
Pioneer Brand 32K72	9	138.3	97.7	0.0	9.4			15.5
Pioneer Brand 32Y52	10	121.7	90.2	0.0	9.7			15.5
Pioneer Brand 33T17	11	126.3	94.3	1.9	23.9			14.7
Pioneer Brand 34P93	12	114.5	92.5	0.0	20.6			14.4
Pioneer Brand X1128BW	13	123.3	96.6	2.4	14.2			13.5
Vineyard V433W	14	111.8	92.0	0.6	26.6			16.4
Vineyard Vx4319W	15	126.0	83.3	1.4	6.3			15.7
Vineyard Vx4359W	16	128.3	93.7	0.0	29.0			16.6
Whisnand 50AW	17	121.7	92.5	1.4	11.6			15.9
Whisnand 51AW	18	97.0	94.8	4.8	21.8			15.3
Zimmerman 1780W	19	121.7	93.1	1.9	16.7			21.5
Zimmerman 1790W	20	129.6	93.1	2.5	22.8			18.9
Zimmerman N71-T7	21	111.2	89.7	3.2	35.9			16.5
Zimmerman Z62W	22	111.7	86.8	0.0	3.9			15.2
Zimmerman Z75W	23	125.7	82.2	1.5	6.4			16.4
Zimmerman Z76W	24	106.3	87.4	0.0	7.3			14.8
Yellow check $B73 \times Mo17$	25	120.1	77.0	0.0	19.3			14.8
Yellow check Pioneer Brand 3394	26	128.3	94.3	0.6	19.9	æ.		13.5
Mean		117.9	89.5	1.7	15.9			16.0
LSD 0.05		17.8	6.7	3.9	ns			1.3
CV%		9.3	4.6	141.8		•5		4.8

Table 32. Yield and agronomic data from the 2000 Early White Food Corn Performance Test at St. Joseph, MO. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	149.5	100.0	2.9	0.0			15.4
Diener D 114W	2	135.4	100.0	70.7	2.9			14.8
Diener D 115W	3	131.1	100.0	64.9	8.6			14.7
IFSI 90-1	4	121.2	100.0	90.8	0.0			15.1
IFSI 95-2	5	152.8	100.0	78.2	2.9	٠		13.2
NC+ 4089W	6	146.4	90.2	0.0	0.0	•		12.6
NC+ 4950W	7	173.0	100.0	17.2	0.0			13.2
Pioneer Brand 32H39	8	205.1	100.0	43.1	0.0	¥		13.9
Pioneer Brand 32K72	9	184.2	100.0	8.6	2.9			14.0
Pioneer Brand 32Y52	10	192.0	100.0	37.4	1.1			14.0
Pioneer Brand 33T17	11	201.6	100.0	70.7	0.0	,		14.3
Pioneer Brand 34P93	12	185.0	100.0	27.6	0.0			12.9
Pioneer Brand X1128BW	13	215.8	100.0	25.9	6.3			13.9
Vineyard V433W	14	177.0	100.0	34.5	8.6			13.1
Vineyard Vx4319W	15	136.6	100.0	43.1	11.5			13.3
Vineyard Vx4359W	16	172.9	100.0	11.5	2.9	ř	î	14.0
Whisnand 50AW	17	113.6	100.0	95.4	0.0			14.0
Whisnand 51AW	18	168.5	100.0	48.9	8.6			15.6
Zimmerman 1780W	19	107.4	100.0	83.9	17.2		,	14.6
Zimmerman 1790W	20	171.6	100.0	46.6	0.0			14.3
Zimmerman N71-T7	21	196.2	100.0	46.0	0.0	,	¥	12.2
Zimmerman Z62W	22	161.9	100.0	33.3	0.6			14.5
Zimmerman Z75W	23	179.8	100.0	17.2	2.9			14.4
Zimmerman Z76W	24	195.1	100.0	28.7	4.6			13.4
Yellow check $B73 \times Mo17$	25	149.6	100.0	63.2	2.9			14.5
Yellow check Pioneer Brand 3394	26	178.8	100.0	56.3	1.1			12.6
Mean		165.5	99.6	44.1	3.3			13.9
LSD 0.05		45.0	ns	50.7	ns			1.2
CV%		16.7		70.4				5.1

Table 33. Yield and agronomic data from the 2000 Early White Food Corn Performance Test at Clay Center, NE. New entries for 2000 are shown in italics. Data were not observed for number of days to flowering. Data for percentage brittle snapping were observed following a severe storm.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Moist.	Brittle snap (%)
Asgrow RX776W	1	157.5	112.1	1.4	0.0	44.3	20.9	8.5
Diener D 114W	2	168.7	84.5	0.6	2.1	48.0	22.3	0.0
Diener D 115W	3	186.3	97.7	1.0	0.0	46.3	23.1	4.1
IFSI 90-1	4	147.7	93.1	3.1	0.6	55.3	22.9	8.2
IFSI 95-2	5	194.7	104.0	2.7	0.6	59.7	20.7	9.9
NC+ 4089W	6	142.4	94.3	0.0	0.0	44.3	18.2	6.1
NC+ 4950W	7	141.1	82.8	0.0	0.7	54.7	19.0	7.5
Pioneer Brand 32H39	8	114.7	109.2	1.2	0.5	49.0	22.6	26.0
Pioneer Brand 32K72	9	192.6	98.9	0.0	1.6	51.0	20.9	5.9
Pioneer Brand 32Y52	10	196.9	91.4	0.0	0.0	53.0	22.9	4.7
Pioneer Brand 33T17	11	108.1	104.6	3.5	0.0	50.7	20.1	46.7
Pioneer Brand 34P93	12	171.6	106.3	2.7	1.1	48.3	20.3	4.9
Pioneer Brand X1128BW	13	199.4	113.2	0.0	0.5	49.3	18.4	3.1
Vineyard V433W	14	183.0	96.0	0.0	4.1	48.7	21.0	1.7
Vineyard Vx4319W	15	176.3	96.0	0.0	3.0	53.0	20.8	4.9
Vineyard Vx4359W	16	193.0	101.1	0.6	0.6	56.0	19.9	4.7
Whisnand 50AW	17	170.5	101.7	1.1	1.1	59.3	20.6	9.7
Whisnand 51AW	18	162.3	104.6	3.6	2.3	59.3	21.3	13.7
Zimmerman 1780W	19	179.2	100.0	0.0	0.0	50.7	23.6	3.0
Zimmerman 1790W	20	171.5	101.7	2.3	0.5	47.3	21.9	5.0
Zimmerman N71-T7	21	177.1	98.3	0.0	3.2	55.7	20.6	7.8
Zimmerman Z62W	22	108.8	97.1	1.2	0.0	52.3	21.7	37.8
Zimmerman Z75W	23	118.7	103.4	0.0	0.0	51.0	24.9	19.1
Zimmerman Z76W	24	138.4	102.3	0.0	0.6	51.3	19.5	14.1
Yellow check $B73 \times Mo17$	25	176.1	85.6	1.5	4.7	53.7	19.1	5.0
Yellow check Pioneer Brand 3394	26	124.2^\dagger	108.6	0.0	5.6	50.0	16.6^{\dagger}	18.4
Mean		161.6	99.6	1.0	1.3	51.6	20.9	10.8
LSD 0.05		31.4	16.3	2.6	2.7	4.4	2.1	12.3
CV%		11.9	10.0	152.9	129.3	5.2	6.2	69.9

[†] Data from two replications.

Table 34. Yield and agronomic data from the 2000 Early White Food Corn Performance Test at Gothenburg, NE. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	173.1	97.7		2.1			14.2
Diener D 114W	2	164.6	83.0		8.1			14.3
Diener D 115W	3	171.8	100.0		9.4			15.9
IFSI 90-1	4	188.3	79.3		2.3			13.5
IFSI 95-2	5	201.8	97.0		1.4			13.6
NC+ 4089W	6	126.1	99.3		1.7	•		10.8
NC+ 4950W	7	136.5	90.7		0.7			11.3
Pioneer Brand 32H39	8	158.2	99.3		1.7			12.6
Pioneer Brand 32K72	9	180.1	99.7		4.0			12.0
Pioneer Brand 32Y52	10	183.8	102.3		0.6			12.1
Pioneer Brand 33T17	11	194.8	97.0		3.8			12.4
Pioneer Brand 34P93 [†]	12	164.7	101.0		1.7			11.8
Pioneer Brand X1128BW	13	175.2	97.3		2.7			11.6
Vineyard V433W	14	208.4	98.0		1.4			13.4
Vineyard Vx4319W	15	199.3	98.0		2.4			13.9
Vineyard Vx4359W	16	203.8	98.0	,	1.1			13.5
Whisnand 50AW	17	209.7	98.3		0.3			13.1
Whisnand 51AW	18	188.5	96.7		2.8			13.4
Zimmerman 1780W	19	187.7	97.7	*	5.5			15.9
Zimmerman 1790W	20	160.5	102.7		13.0			14.3
Zimmerman N71-T7	21	211.1	98.3	,	1.4			13.2
Zimmerman Z62W [†]	22	207.5	91.0		2.1			12.5
Zimmerman Z75W	23	213.5	96.3		1.0			13.2
Zimmerman Z76W	24	184.2	98.7		3.0			13.1
Yellow check $B73 \times Mo17$	25	171.9	83.3		3.6			13.0
Yellow check Pioneer Brand 3394	26	149.7	100.0		3.7			11.1
Mean		181.3	96.2		3.1			13.1
LSD 0.05		23.6	6.5		4.7			0.9
CV%		8.0	4.1		91.9			4.4

[†] Data from two replications.

Table 35. Yield and agronomic data from the 2000 Early White Food Corn Performance Test at Hoytville, OH. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	121.8		,		*	*	22.7
Diener D 114W	2	105.0						22.3
Diener D 115W	3	99.7						24.7
IFSI 90-1	4	101.1						20.0
IFSI 95-2	5	110.2	,	ï			,	20.5
NC+ 4089W	6	94.7					,	26.3
NC+ 4950W	7	105.2						19.7
Pioneer Brand 32H39	8	110.9						25.2
Pioneer Brand 32K72	9	133.3					,	22.5
Pioneer Brand 32Y52	10	103.1	,	,				21.2
Pioneer Brand 33T17	11	134.1		,				20.3
Pioneer Brand 34P93	12	110.8						22.5
Pioneer Brand X1128BW	13	137.8						21.7
Vineyard V433W	14	118.0						21.2
Vineyard Vx4319W	15	134.5		,				22.3
Vineyard Vx4359W	16	126.2						21.8
Whisnand 50AW	17	100.3						21.0
Whisnand 51AW	18	100.2						20.0
Zimmerman 1780W	19	114.8					,	26.6
Zimmerman 1790W	20	101.2						25.2
Zimmerman N71-T7	21	119.5	,					22.7
Zimmerman Z62W	22	100.8					,	21.1
Zimmerman Z75W	23	124.2						22.8
Zimmerman Z76W	24	122.1						23,4
Yellow check $B73 \times Mo17$	25	131.7						24.7
Yellow check Pioneer Brand 3394	26	131.2			3*			20.1
Mean		115.1						22.4
LSD 0.05		17.3						1.5
CV%		9.2				•		4.1

Table 36. Yield and agronomic data from the 2000 Early White Food Corn Performance Test at Beresford, SD. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	129.0	100.0	0.0	3.3	42.1		21.1
Diener D 114W	2	116.0	100.0	0.0	2.1	54.5		21.0
Diener D 115W	3	108.6	100.0	0.0	3.3	48.6		21.3
IFSI 90-1	4	114.1	100.0	0.0	3.8	55.5		20.0
IFSI 95-2	5	108.6	100.0	0.0	1.7	65.0	*	18.9
NC+ 4089W	6	117.9	100.0	0.0	0.8	44.3	6•1	16.9
NC+ 4950W	7	132.5	100.0	0.0	0.0	51.5	,	18.8
Pioneer Brand 32H39	8	131.5	100.0	0.0	3.8	48.1		18.4
Pioneer Brand 32K72	9	142.4	100.0	0.0	7.5	52.1		18.5
Pioneer Brand 32Y52	10	122.8	100.0	0.0	2.5	51.2	×	19.8
Pioneer Brand 33T17	11	135.7	100.0	0.0	5.0	50.7	,	18.8
Pioneer Brand 34P93	12	126.1	100.0	0.0	4.2	39.7		17.9
Pioneer Brand X1128BW	13	122.7	100.0	0.0	1.3	43.3		16.4
Vineyard V433W	14	110.8	100.0	0.0	3.3	54.5		20.4
Vineyard Vx4319W	15	134.4	100.0	0.0	0.8	52.4	•	19.9
Vineyard Vx4359W	16	116.5	100.0	0.0	2.9	58.1		21.2
Whisnand 50AW	17	113.5	100.0	0.0	0.8	64.6		19.7
Whisnand 51AW	18	110.4	100.0	0.0	2.1	62.0		18.7
Zimmerman 1780W	19	118.9	100.0	0.0	1.3	54.6	16	20.7
Zimmerman 1790W	20	114.5	100.0	0.0	4.2	51.9		20.0
Zimmerman N71-T7	21	117.7	100.0	0.0	2.9	53.3		19.5
Zimmerman Z62W	22	67.8	100.0	0.0	1.3	47.7		19.5
Zimmerman Z75W	23	70.1	100.0	0.0	3.3	50.8		20.8
Zimmerman Z76W	24	89.4	100.0	0.0	2.5	49.7		18.8
Yellow check $B73 \times Mo17$	25	81.5	100.0	0.0	0.0	55.0		21.1
Yellow check Pioneer Brand 3394	26	124.0	100.0	0.0	1.3	43.9		18.7
Mean		114.5	100.0	0.0	2.5	51.7		19.5
LSD 0.05		18.1	ns	ns	3.3	4.2		1.8
CV%		9.7			80.2	5.0		5.6

Table 37. Yield and agronomic data from the 2000 Early White Food Corn Performance Test at Knoxville, TN. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	167.4	101.0	0.0	1.0	,	61.0	19.9
Diener D 114W	2	176.6	91.4	0.0	8.4		62.0	22.1
Diener D 115W	3	183.5	99.0	0.0	3.1		62.7	23.0
IFSI 90-1	4	161.4	94.4	0.0	6.3		63.7	22.5
IFSI 95-2	5	195.3	97.5	0.0	10.3		63.0	22.1
NC+ 4089W	6	171.6	99.0	0.0	0.5		60.7	17.6
NC+ 4950W	7	167.8	77.8	0.0	3.4		60.3	19.2
Pioneer Brand 32H39	8	193.5	96.5	0.0	3.1		61.3	19.9
Pioneer Brand 32K72	9	203.8	100.5	0.0	3.0		62.0	19.7
Pioneer Brand 32Y52	10	196.8	99.0	0.0	4.1		62.0	21.1
Pioneer Brand 33T17	11	186.7	101.0	0.0	8.0		61.0	19.0
Pioneer Brand 34P93	12	163.6	102.0	0.0	3.0		60.0	18.6
Pioneer Brand X1128BW	13	209.6	92.9	0.0	2.9		60.7	18.1
Vineyard V433W	14	213.5	94.9	0.0	3.7		61.3	22.7
Vineyard Vx4319W	15	180.3	96.5	0.0	4.6		61.7	22.0
Vineyard Vx4359W	16	202.9	97.0	0.0	7.2		62.3	22.7
Whisnand 50AW	17	190.5	99.0	0.0	4.5		63.3	20.8
Whisnand 51AW	18	184.1	103.0	0.0	5.4		63.7	21.7
Zimmerman 1780W	19	186.0	98.0	0.0	3.1		62.3	23.2
Zimmerman 1790W	20	180.8	100.5	0.0	3.0		62.7	22.8
Zimmerman N71-T7	21	200.8	98.5	0.0	1.0		61.7	22.1
Zimmerman Z62W	22	179.0	95.5	0.0	7.0		63.7	22.1
Zimmerman Z75W	23	170.8	100.0	0.0	3.0		64.3	21.3
Zimmerman Z76W	24	167.5	102.5	0.0	5.4		63.3	19.5
Yellow check B73×Mo17	25	190.9	89.9	0.0	6.7		61.7	22.0
Yellow check Pioneer Brand 3394	26	188.6	99.5	0.0	6.6	•	61.3	18.5
Mean		185.1	97.2	0.0	4.6		62.1	20.9
LSD 0.05		23.3	8.1	ns	ns		1.2	1.1
CV%		7.7	5.1				1.2	3,3

Table 38. Yield and agronomic data from the 2000 Early White Food Corn Performance Test at Halfway, TX. New entries for 2000 are shown in italics.

RESPONDED TO THE PROPERTY AND ADMINISTRATION OF THE PROPERTY O			LANAOVÉ ELLITIERE CONTERVIMENTA N	Root	Stalk	Ear	Days to	
Entry	No.	Yield	Stand	lodged	lodged	height	flower	Moist.
		(bu/a)	(%)	(%)	(%)	(in)	(no)	(%)
Asgrow RX776W	1	155.2	99.4		42.5	30.9	66.7	7.5
Diener D 114W	2	152.1	94.2		53.7	36.9	68.0	8.0
Diener D 115W	3	154.3	99.4		59.3	37.3	69.0	7.8
IFSI 90-1	4	143.1	98.1		47.7	44.6	70.0	8.2
IFSI 95-2	5	156.3	94.2		48.2	47.8	69.0	7.9
NC+ 4089W	6	111.4	100.0	,	52.6	31.6	65.3	7.6
NC+ 4950W	7	131.4	94.2		37.0	36.7	65.0	7.9
Pioneer Brand 32H39	8	132.8	100.0		51.3	37.8	67.7	7.5
Pioneer Brand 32K72	9	156.4	100.0		33.3	35.9	68.0	7.4
Pioneer Brand 32Y52	10	140.4	100.0		51.3	38.2	69.0	8.4
Pioneer Brand 33T17	11	166.9	98.1		55.2	39.0	67.0	8.1
Pioneer Brand 34P93	12	147.1	100.0		37.2	35.6	66.0	7.7
Pioneer Brand X1128BW	13	150.6	100.0		54.5	30.4	66.3	8.0
Vineyard V433W	14	173.2	100.0		44.9	39.4	67.7	7.8
Vineyard Vx4319W	15	163.7	96.8		49.5	43.2	68.3	8.1
Vineyard Vx4359W	16	170.7	98.7		49.4	41.5	68.7	7.8
Whisnand 50AW	17	158.6	96.8		50.2	48.4	68.7	7.9
Whisnand 51AW	18	138.2	94.9		49.0	44.9	70.0	7.8
Zimmerman 1780W	19	169.3	97.4		63.8	38.1	69.0	8.0
Zimmerman 1790W	20	159.4	100.0		69.2	35.8	67.7	7.7
Zimmerman N71-T7	21	176.3	100.0		0.0	39.1	68.7	8.1
Zimmerman Z62W	22	136.1	100.0		42.9	40.4	72.3	7.3
Zimmerman Z75W	23	136.1	95.5		47.9	38.9	72.0	7.8
Zimmerman Z76W	24	124.9	100.0		53.8	46.3	69.7	7.4
Yellow check $B73 \times Mo17$	25	133.3	86.5	•	53.4	38.2	68.0	7.4
Yellow check Pioneer Brand 3394	26	146.1	99.4		50.2	36.3	67.3	8.3
Mean		149.4	97.8		48.0	39.0	68.3	7.8
LSD 0.05		33.3	ns		18.8	4.4	1.7	ns
CV%		13.7		*	24.0	6.9	1.6	

Table 39. Yield and agronomic data from the 2000 Early White Food Corn Performance Test at Grande Pointe, Ontario. New entries for 2000 are shown in italics.

	PARENTHAL MANAGEMENT COMM			Root	Stalk	Ear	Days to	
Entry	No.	Yield	Stand	lodged	lodged	height	flower	Moist.
		(bu/a)	(%)	(%)	(%)	(in)	(no)	(%)
Asgrow RX776W	1	138.4	96.5	0.0	3.7	42.7		30.5
Diener D 114W	2	114.5	93.9	0.0	1.6	56.0		30.2
Diener D 115W	3	109.9	99.0	0.0	5.7	47.7		30.7
IFSI 90-1	4	99.2	92.9	0.0	8.8	54.3		26.1
IFSI 95-2	5	101.8	92.4	0.0	15.5	63.3		26.6
NC+ 4089W	6	114.5	91.9	0.0	10.9	46.7		26.4
NC+ 4950W	7	87.6	91.9	0.0	9.3	53.0		23.8
Pioneer Brand 32H39	8	131.8	97.5	0.0	8.1	53.7		25.8
Pioneer Brand 32K72	9	139.3	89.4	0.0	5.1	46.0		28.3
Pioneer Brand 32Y52	10	137.0	96.0	0.0	12.0	49.0		29.5
Pioneer Brand 33T17	11	124.5	100.5	0.0	11.9	51.3		24.2
Pioneer Brand 34P93	12	113.3	94.4	0.0	8.1	44.7		27.0
Pioneer Brand X1128BW	13	137.3	96.5	0.0	3.2	45.7		26.2
Vineyard V433W	14	138.2	94.4	0.0	9.1	49.3		30.4
Vineyard Vx4319W	15	126.7	97.5	0.0	8.2	50.3		29.1
Vineyard Vx4359W	16	120.0	93.4	0.0	19.4	52.3		30.1
Whisnand 50AW	17	109.5	91.9	0.0	8.9	66.3		25.8
Whisnand 51AW	18	101.2	89.9	0.0	9.5	63.0		24.1
Zimmerman 1780W	19	121.0	97.5	0.0	2.6	50.3		30.0
Zimmerman 1790W	20	119.2	96.5	0.0	3.6	50.0		29.6
Zimmerman N71-T7	21	129.0	98.5	0.0	3.0	56.0		28.8
Zimmerman Z62W	22	119.0	90.4	0.0	4.5	52.7		30.9
Zimmerman Z75W	23	99.8	97.5	0.0	6.7	54.3		30.4
Zimmerman Z76W	24	103.2	99.0	0.0	2.5	49.7		27.3
Yellow check $B73 \times Mo17$	25	108.7	92.9	0.0	6.1	54.7		27.0
Yellow check Pioneer Brand 3394	26	141.5	97.0	0.0	11.5	56.3	,	23.5
Mean		118.7	95.0	0.0	7.7	52.3		27.8
LSD 0.05		19.9	ns	ns	8.2	6.6		2.5
CV%		10.3			65.6	7.7		5.5

Table 40. Yield and agronomic data from the 2000 Early White Food Corn Performance Test at Ridgetown, Ontario. New entries for 2000 are shown in italics.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days to flower (no)	Moist.
Asgrow RX776W	1	188.0	100.0	0.0	3.1	43.3	93.3	24.4
Diener D 114W	2	152.5	97.5	0.0	3.8	54.0	94.7	29.1
Diener D 115W	3	144.6	100.0	0.0	12.3	57.7	95.3	28.2
IFSI 90-1	4	127.2	100.0	0.0	12.3	65.0	95.3	22.8
IFSI 95-2	5	156.2	99.4	0.0	9.9	67.0	94.7	23.1
NC+ 4089W	6	159.4	98.8	0.0	5.0	49.3	90.0	23.1
NC+ 4950W	7	132.8	100.0	0.0	6.2	57.0	92.0	22.5
Pioneer Brand 32H39	8	181.4	100.0	0.0	7.4	58.3	91.3	24.4
Pioneer Brand 32K72	9	182.6	100.0	0.0	8.6	57.0	92.3	27.7
Pioneer Brand 32Y52	10	170.3	100.0	0.0	6.2	56.7	92.0	24.4
Pioneer Brand 33T17	11	182.5	99.4	0.0	11.8	58.0	92.0	23.7
Pioneer Brand 34P93	12	173.3	99.4	0.0	4.4	54.7	90.7	24.4
Pioneer Brand X1128BW	13	191.0	100.0	0.0	1.2	51.3	90.0	24.3
Vineyard V433W	14	177.9	100.0	0.0	15.4	58.0	94.0	25.2
Vineyard Vx4319W	15	180.9	100.0	0.0	10.5	54.0	93.7	23.9
Vineyard Vx4359W	16	201.7	100.0	0.0	14.2	57.3	94.3	25.8
Whisnand 50AW	17	131.9	100.0	0.0	17.9	66.0	94.7	23.4
Whisnand 51AW	18	137.5	100.0	0.0	13.0	65.7	94.7	22.9
Zimmerman 1780W	19	165.7	100.0	0.0	4.3	57.3	94.7	28.7
Zimmerman 1790W	20	174.3	100.0	0.0	1.2	56.3	94.7	27.4
Zimmerman N71-T7	21	167.3	100.0	0.0	3.7	59.0	93.7	24.5
Zimmerman Z62W	22	147.0	100.0	0.0	4.3	58.3	98.0	26.4
Zimmerman Z75W	23	153.6	100.0	0.0	2.5	55.3	97.3	28.2
Zimmerman Z76W	24	131.1	98.1	0.0	8.1	56.0	96.0	22.7
Yellow check $B73 \times Mo17$	25	107.8	100.0	0.0	10.5	55.3	92.0	28.3
Yellow check Pioneer Brand 3394	26	146.6	100.0	0.0	1.9	57.0	91.7	23.9
Mean		160.2	99.7	0.0	7.7	57.1	93.6	25.1
LSD 0.05		24.3	ns	ns	7.7	5.6	1.2	1.3
CV%		9.3			61.5	6.1	0.8	3.3

Table 41. Combined yield and agronomic data from 12 northern locations of the 2000 Early White Food Corn Performance Test. New entries for 2000 are in italics.

Ent	ry	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)
Asgrow RX776W		1	152.5	89.0	0.6	3.5	43.8	87.8	21.4	0.89	13.8
Diener D 114W		2	138.5	80.7	9.6	3.9	52.7	89.8	21.9	0.98	13.4
Diener D 115W		3	143.1	87.7	8.2	6.7	51.5	89.2	22.2	1.21	19.4
IFSI 90-1		4	128.2	81.4	12.7	5.4	58.3	90.3	19.7	1.09	17.0
IFSI 95-2		5	147.3	87.9	10.7	5.4	64.6	89.3	19.0	1.29	16.6
NC+ 4089W		6	129.2	85.9	0.1	3.1	45.3	85.2	17.4	0.65	13.4
NC+4950W		7	133.6	85.4	2.2	3.3	55.0	86.2	17.5	0.80	18.5
Pioneer Brand 32	2H39	8	148.7	89.8	6.4	4.9	52.5	86.2	19.4	0.84	24.1
Pioneer Brand 32	2K72	9	165.3	88.6	1.1	5.1	52.2	87.7	20.3	0.76	17.7
Pioneer Brand 32	2Y52	10	157.4	87.6	4.7	4.1	53.2	87.5	20.1	1.15	15.2
Pioneer Brand 33	3 T 17	11	156.2	89.4	9.8	6.8	53.5	86.5	18.7	0.77	27.0
Pioneer Brand 34		12	150.6	89.1	3.8	5.1	47.9	85.5	18.9	0.97	13.5
Pioneer Brand X		13	157.8	90.5	3.8	3.8	47.3	86.0	18.3	0.88	29.2
Vineyard V433W		14	150.6	86.8	4.4	8.1	51.7	88.3	20.2	1.13	17.5
Vineyard Vx4319	W	15	152.5	86.5	6.0	5.6	53.2	88.2	19.6	0.81	14.0
Vineyard Vx4359	W	16	154.6	88.5	1.5	8.2	55.4	88.3	20.3	1.03	23.5
Whisnand 50AW		17	143.9	87.9	12.3	4.8	64.4	89.5	19.1	1.09	24.9
Whisnand 51AW		18	138.7	87.8	7.4	7.0	61.3	90.8	19.1	1.28	10.7
Zimmerman 1780		19	145.1	89.0	10.9	5.9	54.3	90.0	22.5	1.00	21.3
Zimmerman 1790	OW	20	152.1	89.0	6.4	5.5	53.4	89.5	21.6	1.01	17.6
Zimmerman N71	-T7	21	156.6	87.2	6.3	6.1	56.7	88.5	19.7	1.26	13.7
Zimmerman Z62	W	22	135.2	84.7	4.3	2.1	54.7	93.5	20.4	1.38	22.0
Zimmerman Z75		23	143.2	87.3	2.3	2.9	54.6	93.5	21.5	1.37	26.1
Zimmerman Z76		24	134.6	89.0	3.9	3.4	53.6	91.3	18.6	1.12	17.4
Yellow check B73	$8 \times Mo17$	25	133.3	81.9	8.4	5.5	55.7	87.0	19.6	0.93	20.8
Yellow check Pior	neer Brand 3394	26	135.4	90.3	7.2	5.9	52.6	87.0	16.7	0.30	19.5
Mean			145.6	87.3	6.0	5.1	53.8	88.6	19.8	1.00	18.8
LSD 0.05			16.3	3.5	ns	ns	3.2	1.7	1.1	0.14	
CV%			11.8	5.3			6.4	0.9	6.2		
Location means:	Champaign, IL		146.8	95.7	0.9	3.7	54.9		22.7		
	Geneseo, IL		125.3	88.3					19.6		
	Harlan, IA		178.1	86.9	0.0	0.5			17.0		
	Marion, IA		161.7	96.8			55.3	83.6	18.9		
	Ogden, IA		117.9	89.5	1.7	15.9			16.0		
	St. Joseph, MO		165.5	99.6	44.1	3.3			13.9		
	Clay Center, NE [†]		161.6	99.6	1.0	1.3	51.6		20.9		
	Gothenburg, NE [†]		181.3	96.2		3.1	:*		13.1		
	Hoytville, OH		115.1	0.				٠	22.4		
	Beresford, SD	TITO	114.5	100.0	0.0	2.5	51.7	•	19.5		
	Grande Pointe, ON	VT.	118.7	95.0	0.0	7.7	52.3	02.6	27.8		
	Ridgetown, ONT		160.2	99.7	0.0	7.7	57.1	93.6	25.1		

 $^{^{\}dagger}$ Irrigated location.

Table 42. Yield data (bu/a) from 12 locations of the 2000 Late White Food Corn Performance Test. New entries for 2000 are shown in italics.

	2.7	Cham-	Gen-	Har-	Mar-	Og-	St. Jo-		Gothen-	-		Grande	0	0
Entry	No.	paign, IL	eseo,	lan,	ion, IA	den, IA	seph, MO	Center, NE [†]	burg, NE [†]	ville, OH	ford, SD	Pointe ONT	town, ONT	Com- bined
				IA									Secretary and the second	
Asgrow RX776W	1	164.9	133.1	188.1	177.4	109.5	149.5	157.5	173.1	121.8	129.0	138.4	188.0	152.5
Diener D 114W	2	131.0	101.3	189.5	160.9	122.5	135.4	168.7	164.6	105.0	116.0	114.5	152.5	138.5
Diener D 115W IFSI 90-1	3	164.2	109.2	211.3 185.1	162.7 145.2	117.5 102.5	131.1 121.2	186.3 147.7	171.8 188.3	99.7 101.1	108.6 114.1	109.9 99.2	144.6 127.2	143.1 128.2
IFSI 90-1 IFSI 95-2	4 5	115.0 171.2	91.5 102.1	171.2	145.2 174.5	102.5 122.5	152.8	194.7	201.8	110.2	108.6	101.8	156.2	147.3
11 51 95-2	Ð	111.2	102.1	111.2	174.5	122.0	152.6	134.1	201.0	110.2	100.0	101.0	150.2	147.0
NC+ 4089W	6	124.2	106.2	163.0	138.2	117.6	146.4	142.4	126.1	94.7	117.9	114.5	159.4	129.2
NC+ 4950W	7	159.4	114.7	170.3	147.5	102.0	173.0	141.1	136.5	105.2	132.5	87.6	132.8	133.6
Pioneer Brand 32H39	8	148.2	139.4	169.9	184.9	108.6	205.1	114.7	158.2	110.9	131.5	131.8	181.4	148.7
Pioneer Brand 32K72	9	145.4	166.3	166.2	213.6	138.3	184.2	192.6	180.1	133.3	142.4	139.3	182.6	165.3
Pioneer Brand 32Y52	10	162.3	131.3	171.3	196.8	121.7	192.0	196.9	183.8	103.1	122.8	137.0	170.3	157.4
Pioneer Brand 33T17	11	133.8	170.1	169.2	193.5	126.3	201.6	108.1	194.8	134.1	135.7	124.5	182.5	156.2
Pioneer Brand 34P93	12	158.9	141.4	165.2	182.6	114.5	185.0	171.6	164.7	110.8	126.1	113.3	173.3	150.6
Pioneer Brand X1128BW	13	98.8	154.8	151.0	187.1	123.3	215.8	199.4	175.2	137.8	122.7	137.3	191.0	157.8
Vineyard V433W	14	123.0	139.3	183.5	136.7	111.8	177.0	183.0	208.4	118.0	110.8	138.2	177.9	150.6
Vineyard Vx4319W	15	148.7	132.6	170.8	163.5	126.0	136.6	176.3	199.3	134.5	134.4	126.7	180.9	152.5
Vineyard Vx4359W	16	160.4	142.4	178.4	111.6	128.3	172.9	193.0	203.8	126.2	116.5	120.0	201.7	154.6
Whisnand 50AW	17	180.7	120.5	173.3	182.0	121.7	113.6	170.5	209.7	100.3	113.5	109.5	131.9	143.9
Whisnand 51AW	18	142.1	106.0	171.0	179.2	97.0	168.5	162.3	188.5	100.2	110.4	101.2	137.5	138.7
Zimmerman 1780W	19	138.3	121.2	203.6	161.2	121.7	107.4	179.2	187.7	114.8	118.9	121.0	165.7	145.1
Zimmerman 1790W	20	188.7	142.3	198.1	153.8	129.6	171.6	171.5	160.5	101.2	114.5	119.2	174.3	152.1
Zimmerman N71-T7	21	184.7	124.9	184.9	155.2	111.2	196.2	177.1	211.1	119.5	117.7	129.0	167.3	156.6
Zimmerman Z62W	22	149.5	102.6	197.6	148.0	111.7	161.9	108.8	207.5	100.8	67.8	119.0	147.0	135.2
Zimmerman Z75W	23	183.7	110.9	196.6	142.2	125.7	179.8	118.7	213.5	124.2	70.1	99.8	153.6	143.2
Zimmerman Z76W	24	127.0	109.8	171.3	137.9	106.3	195.1	138.4	184.2	122.1	89.4	103.2	131.1	134.6
Yellow check B73 × Mo17	25	114.8	112.3	177.8	147.4	120.1	149.6	176.1	171.9	131.7	81.5	108.7	107.8	133.3
Yellow check Pioneer Brand 3394	26	98.5	131.7	150.9	119.9	128.3	178.8	124.2	149.7	131.2	124.0	141.5	146.6	135.4
Mean		146.8	125.3	178.1	161.7	117.9	165.5	161.6	181.3	115.1	114.5	118.7	160.2	145.6
LSD 0.05		50.6	24.2	14.2	23.0	17.8	45.0	31.4	23.6	17.3	18.1	19.9	24.3	16.3
CV%		21.1	11.8	4.9	8.7	9.3	16.7	11.9	8.0	9.2	9.7	10.3	9.3	11.8

[†] Irrigated location.

Table 43. Yield (bu/a) data from the 2000 Early White Food Corn Performance Test at Halfway, TX. The low moisture stress regime was 80% replacement of measured evapotranspiration, the moderate moisture stress regime was 60% replacement, and the severe moisture stress regime was 50% replacement. New entries for 2000 are shown in italics.

		I	Moisture stress lev	el
Entry	No.	Low	Moderate	Severe
Asgrow RX776W	1	155.2	159.4	77.4
Diener D 114W	2	152.1	140.1	66.7
Diener D 115W	3	154.3	131.2	63.2
IFSI 90-1	4	143.1	125.4	53.1
IFSI 95-2	5	156.3	144.8	69.0
NC+ 4089W	6	111.4	122.6	62.9
NC+ 4950W	7	131.4	106.8	63.1
Pioneer Brand 32H39	8	132.8	127.2	65.4
Pioneer Brand 32K72	9	156.4	138.3	59.9
Pioneer Brand 32Y52	10	140.4	130.2	76.8
Pioneer Brand 33T17	11	166.9	136.2	60.1
Pioneer Brand 34P93	12	147.1	122.0	72.6
Pioneer Brand X1128BW	13	150.6	165.4	71.2
Vineyard V433W	14	173.2	152.0	57.9
Vineyard Vx4319W	15	163.7	123.5	62.6
Vineyard Vx4359W	16	170.7	138.4	71.9
Whisnand 50AW	17	158.6	139.2	76.5
Whisnand 51AW	18	138.2	133.3	58.2
Zimmerman 1780W	19	169.3	137.1	75.5
Zimmerman 1790W	20	159.4	147.2	80.0
Zimmerman N71-T7	21	176.3	166.7	77.7
Zimmerman Z62W	22	136.1	126.7	64.1
Zimmerman Z75W	23	136.1	123.0	57.1
Zimmerman Z76W	24	124.9	125.1	55.4
Yellow check $B73 \times Mo17$	25	133.3	148.7	66.4
Yellow check Pioneer Brand 3394	26	146.1	154.6	71.5
Mean		149.4	137.1	66.8
LSD 0.05		33.3	26.1	16.2
CV%		13.7	11.7	14.9

Table 44. European corn borer whorl-leaf feeding and stalk tunneling data from Columbia and Marshall, MO, for the 2000 Early White Food Corn Performance Test. New entries for 2000 are shown in italics.

			Columbia			Marshal	1	Combined			
T. (3.7	Leaf		Tunnel			Tunnel			Tunnel	
Entry	No.	feeding (1-9)	tunnels (no)	length (in)	feeding (1-9)	tunnels (no)	length (in)	feeding (1-9)			
A compare DVIIICUI	1	3.7	0.5	CONTRACTOR OF THE PARTY OF THE	According to the last of the l	NAME OF TAXABLE PARTY.		THE RESERVE OF THE PERSON NAMED IN	(no)	(in)	
Asgrow RX776W Diener D 114W	$\frac{1}{2}$	$\frac{3.7}{7.0}$	0.9	0.5 0.9	3.3 5.0	2.2 1.3	2.5 1.3	3.5 6.0	1.3 1.1	1.5	
Diener D 115W	3	6.7	0.6	0.7	5.0	1.3	1.8	5.8	1.0	$\frac{1.1}{1.3}$	
IFSI 90-1	4	4.7	0.5	0.5	4.0	1.4	1.9	4.3	0.9	1.3	
IFSI 95-2	5	5.3	0.5	0.5	4.3	1.7	1.7	4.8	1.1	1.1	
NC+ 4089W	6	5.0	0.5	0.5	3.3	2.0	2.2	4.2	1.2	1.4	
NC+4950W	7	5.0	0.9	0.9	4.3	2.5	2.7	4.7	1.7	1.8	
Pioneer Brand 32H39	8	5.3	0.4	0.7	4.3	1.5	1.7	4.8	0.9	1.2	
Pioneer Brand 32K72	9	3.3	0.7	0.7	3.3	1.3	1.9	3.3	1.0	1.3	
Pioneer Brand 32Y52	10	4.3	0.7	0.7	3.0	2.1	2.3	3.7	1.4	1.5	
Pioneer Brand 33T17	11	4.0	0.3	0.3	3.3	2.3	2.7	3.7	1.3	1.5	
Pioneer Brand 34P93	12	5.3	0.7	0.8	3.3	1.8	2.1	4.3	1.3	1.4	
Pioneer Brand X1128BW	13	4.0	0.3	0.3	3.3	2.1	2.3	3.7	1.2	1.3	
Vineyard V433W	14	4.3	0.7	0.7	3.7	1.4	1.6	4.0	1.0	1.1	
Vineyard Vx4319W	15	4.3	0.6	0.6	3.7	2.0	2.3	4.0	1.3	1.4	
Vineyard Vx4359W	16	4.0	0.3	0.3	3.3	1.5	1.9	3.7	0.9	1.1	
Whisnand 50AW	17	6.0	0.6	0.6	4.3	1.0	1.1	5.2	0.8	0.9	
Whisnand 51AW	18	6.3	0.4	0.5	4.3	1.7	1.8	5.3	1.1	1.1	
Zimmerman 1780W	19	7.3	0.6	0.7	4.7	2.1	2.1	6.0	1.3	1.4	
Zimmerman 1790W	20	6.7	0.3	0.3	5.0	1.1	1.3	5.8	0.7	0.8	
Zimmerman N71-T7	21	2.0	0.3	0.3	1.0	0.1	0.1	1.5	0.2	0.2	
Zimmerman Z62W	22	3.7	0.4	0.5	3.3	1.9	2.1	3.5	1.2	1.3	
Zimmerman Z75W	23	3.0	0.5	0.5	3.3	1.5	1.7	3.2	1.0	1.1	
Zimmerman Z76W	24	4.7	0.3	0.3	3.7	1.7	1.9	4.2	1.0	1.1	
Yellow check $B73 \times Mo17$	25	6.3	0.5	0.6	5.0	1.8	1.9	5.7	1.2	1.3	
Yellow check Pioneer Brand 3394	26	6.0	0.3	0.3	4.7	1.1	1.2	5.3	0.7	0.8	
Susc. check Wf9 × W182E		5.3	2.3	2.8	3.3	2.9	3.3	4.3	2.6	3.0	
Rest. check Mycogen 7250		4.0	0.1	0.2	2.7	1.5	1.7	3.3	0.8	1.0	
Rest. check Pioneer Brand 3184		3.3	0.2	0.2	3.0	0.5	0.5	3.2	0.3	0.3	
Mean		4.9	0.5	0.6	3.8	1.6	1.8	4.3	1.1	1.2	
LSD 0.05		1.7	0.6	0.7	1.1	0.9	1.1	1.0	0.6	0.6	
CV%	STATE OF THE PARTY	22.0	70.7	69.4	17.9	34.7	35.8	20.7	44.5	45.2	

Table 45. Corn earworm damage, percentage molded grain, and ear length data from the 2000 Early White Food Corn Performance Test at Lubbock, TX. New entries for 2000 are shown in italics.

Entry	No.	CEW damage (inches)	Molded grain (%)	Ear length (inches)
Asgrow RX776W	1	1.8	3.0	6.7
Diener D 114W	2	2.4	4.7	6.9
Diener D 115W	3	2.3	3.0	6.6
IFSI 90-1	4	3.2	4.3	7.4
IFSI 95-2	5	3.4	11.3	7.1
NC+ 4089W	6	3.1	4.3	6.8
NC+ 4950W	7	2.6	4.7	6.7
Pioneer Brand 32H39	8	2.6	3.0	7.1
Pioneer Brand 32K72	9	2.7	3.7	7.0
Pioneer Brand 32Y52	10	3.0	3.7	7.4
Pioneer Brand 33T17	11	2.6	3.0	7.1
Pioneer Brand 34P93	12	2.6	4.7	7.3
Pioneer Brand X1128BW	13	2.3	3.3	7.0
Vineyard V433W	14	2.7	3.0	7.5
Vineyard Vx4319W	15	2.8	3.3	7.1
Vineyard Vx4359W	16	4.3	10.3	7.7
Whisnand 50AW	17	2.9	5.3	7.1
Whisnand 51AW	18	3.3	5.0	7.3
Zimmerman 1780W	19	2.6	3.0	6.7
Zimmerman 1790W	20	2.5	4.0	6.8
Zimmerman N71-T7	21	1.9	2.0	6.7
Zimmerman Z62W	22	3.0	3.3	7.2
Zimmerman Z75W	23	3.0	3.7	6.9
Zimmerman Z76W	24	3.4	7.3	6.4
Yellow check $B73 \times Mo17$	25	3.7	10.0	7.2
Yellow check Pioneer Brand 3394	26	3.4	5.3	7.1
Mean		2.9	4.7	7.0
LSD 0.05		1.0	4.3	0.6
CV%		21.8	55.8	4.9

Table 46. Gibberella (Fusarium graminearum) ear rot data from Ottawa and Ridgetown, Ontario, for the 2000 Early White Food Corn Performance Test. New entries for 2000 are shown in italics.

		Ott	awa	Ridge	etown	Combined		
Entry	No.	Silk inoculation (1-7) [†]	Wound inoculation (1-7)	Silk inoculation (1-7)	Wound inoculation (1-7)	Silk inoculation (1-7)	Wound inoculation (1-7)	
Asgrow RX776W	1	5.2	3.0	3.9	3.5	4.5	3.3	
Diener D 114W	2	1.9	2.7	2.1	4.7	2.0	3.7	
Diener D 115W	3	2.5	2.7	2.0	3.3	2.3	3.0	
IFSI 90-1	4	2.1	2.8	4.8	5.5	3.4	4.2	
IFSI 95-2	5	3.8	3.5	5.2	5.0	4.5	4.2	
NC+ 4089W	6	4.9	3.3	4.4	4.4	4.6	3.9	
NC+ 4950W	7	3.6	3.2	5.2	3.9	4.4	3.6	
Pioneer Brand 32H39	8	5.7	3.8	3.7	3.9	4.7	3.8	
Pioneer Brand 32K72	9	5.7	3.7	4.5	4.1	5.1	3.9	
Pioneer Brand 32Y52	10	3.6	3.2	3.6	3.4	3.6	3.3	
Pioneer Brand 33T17	11	6.0	3.7	4.6	4.7	5.3	4.2	
Pioneer Brand 34P93	12	5.9	3.2	4.5	3.2	5.2	3.2	
Pioneer Brand X1128BW	13	5.5	3.6	4.0	3.9	4.7	3.8	
Vineyard V433W	14	4.5	3.2	4.4	4.2	4.5	3.7	
Vineyard Vx4319W	15	5.3	3.8	5.2	5.1	5.2	4.4	
Vineyard Vx4359W	16	4.2	3.1	2.5	4.6	3.3	3.9	
Whisnand 50AW	17	3.5	3.7	4.9	4.6	4.2	4.1	
Whisnand 51AW	18	1.6	3.1	4.5	4.6	3.1	3.9	
Zimmerman 1780W	19	2.6	3.0	2.2	3.2	2.4	3.1	
Zimmerman 1790W	20	1.9	3.0	2.9	2.8	2.4	2.9	
Zimmerman N71-T7	21	3.0	2.6	5.0	3.9	4.0	3.2	
Zimmerman Z62W	22	5.1	4.3	5.9	5.1	5.5	4.7	
Zimmerman Z75W	23	2.7	3.7	4.4	5.9	3.6	4.8	
Zimmerman Z76W	24	3.3	4.0	4.4	3.8	3.9	3.9	
Yellow check B73 \times Mo17	25	5.2	2.7	4.9	4.3	5.1	3.5	
Yellow check Pioneer Brand 3394	26	3.2	2.9	2.8	3.1	3.0	3.0	
Mean		3.9	3.3	4.1	4.2	4.0	3.7	
LSD 0.05		1.2	0.7	1.8	0.9	1.1	0.6	
CV%		19.3	12.4	26.3	13.3	23.2	13.1	

[†] Rated on a scale in which 1 is no ear rot and 7 is 75% or more of the ear area covered with ear rot.

Table 47. Combined grain quality data from the 2000 Early White Food Corn Performance Test grown at Marion, IA; Columbia, MO; Knoxville, TN; and Ridgetown, Ontario.

Entry	No.	Test weight (lb/bu)	100-kernel weight (g)	Kernel size (cc)	$ ext{Thins}^{\dagger} \ (\%)$	Kernel density (g/cc)	Horny endosp. (%)
Asgrow RX776W	1	61.2	30.5	0.23	56.8	1.31	89
Diener D 114W	2	61.6	32.4	0.25	18.6	1.30	86
Diener D 115W	3	61.3	32.2	0.25	21.0	1.31	89
IFSI 90-1	4	62.9	33.1	0.25	38.1	1.32	89
IFSI 95-2	5	63.0	32.6	0.25	34.3	1.32	90
NC+ 4089W	6	61.5	31.6	0.24	43.7	1.32	90
NC+ 4950W	7	62.6	28.7	0.22	75.5	1.33	91
Pioneer Brand 32H39	8	63.5	33.5	0.25	46.7	1.33	90
Pioneer Brand 32K72	9	62.7	35.5	0.27	35.2	1.32	93
Pioneer Brand 32Y52	10	63.0	35.8	0.27	25.2	1.33	94
Pioneer Brand 33T17	11	62.5	31.8	0.24	46.8	1.31	94
Pioneer Brand 34P93	12	62.4	32.3	0.25	46.0	1.32	94
Pioneer Brand X1128BW	13	60.7	33.4	0.26	40.1	1.31	90
Vineyard V433W	14	61.0	33.2	0.25	65.4	1.31	89
Vineyard Vx4319W	15	62.6	32.0	0.25	63.7	1.32	93
Vineyard Vx4359W	16	60.9	32.1	0.25	61.7	1.30	84
Whisnand 50AW	17	62.5	31.7	0.24	31.4	1.32	89
Whisnand 51AW	18	62.3	31.1	0.24	36.8	1.32	88
Zimmerman 1780W	19	60.5	30.7	0.24	23.2	1.30	86
Zimmerman 1790W	20	61.5	30.6	0.24	31.1	1.30	89
Zimmerman N71-T7	21	61.2	31.4	0.24	50.4	1.30	86
Zimmerman Z62W	22	60.6	35.3	0.27	18.1	1.31	91
Zimmerman Z75W	23	60.1	35.5	0.27	18.2	1.31	94
Zimmerman Z76W	24	60.7	35.6	0.28	23.7	1.30	90
Yellow check B73 × Mo17	25	58.9	32.2	0.26	43.7	1.27	81
Yellow check Pioneer Brand 3394 [‡]	26	61.3	35.3	0.27	29.6	1.30	85
Mean		61.6	32.7	0.25	39.5	1.31	89
LSD 0.05		1.5	3.4	0.03	19.6	0.02	4
CV%		1.7	7.4	7.9	35.0	1.0	3.4

 $^{^\}dagger$ Percent of a 250-kernel sample passing through a 20/64" round-hole sieve. ‡ Data from three locations.

Table 48. Yield and agronomic data from common entries in the 1999-2000 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.
Asgrow RX776W	2	156.2	86.5	0.8	2.6	42.9	81.8	21.0
Diener D 114W	2	148.4	82.7	7.9	4.6	51.8	83.3	21.4
IFSI 90-1	2	142.1	81.8	7.4	4.8	57.3	83.3	20.0
IFSI 95-2	2	154.3	85.7	7.9	5.5	60.4	83.0	19.1
Pioneer Brand 32H39	2	150.2	88.8	3.8	3.9	51.2	80.9	19.6
Pioneer Brand 32K72	2	164.7	88.0	1.0	5.9	52.1	82.0	20.0
Pioneer Brand 32Y52	2	160.9	87.4	4.0	6.2	52.5	81.9	19.8
Pioneer Brand 33T17	2	165.5	88.7	7.2	5.5	53.8	81.2	19.0
Pioneer Brand 34P93	2	157.9	87.9	2.3	6.0	47.1	79.0	18.5
Pioneer Brand X1128BW	2	157.9	88.3	3.2	6.2	46.8	79.8	17.6
Vineyard V433W	2	161.6	87.6	3.6	6.7	53.2	82.2	20.2
Whisnand 50AW	2	152.6	86.2	9.6	4.5	62.4	83.1	19.2
Whisnand 51AW	2	147.8	86.0	4.3	6.6	60.8	84.0	19.6
Zimmerman 1780W	2	152.2	87.0	7.3	8.9	51.5	83.4	22.3
Zimmerman 1790W	2	159.0	88.3	4.7	8.1	52.0	83.3	21.2
Zimmerman N71-T7	2	159.0	86.4	7.9	5.0	55.8	82.4	19.9
Zimmerman Z76W	2	137.5	86.8	2.2	3.6	53.7	84.3	18.6
Yellow check B73 × Mo17	2	140.5	84.6	6.6	5.6	55.7	81.4	19.7
Yellow check Pioneer Brand 3394	2	140.3	88.7	4.1	6.8	52.4	81.7	16.8
Mean		153.0	86.7	5.0	5.6	53.3	82.2	19.6

Table 49. Yield and agronomic data from common entries in the 1998-2000 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.
Asgrow RX776W	3	160.5	89.9	1.4	2.6	41.4	80.5	21.6
Diener D 114W	3	157.2	87.0	8.9	3.7	50.9	81.5	22.0
IFSI 90-1	3	154.7	85.6	8.0	4.2	57.0	81.6	21.0
IFSI 95-2	3	162.4	89.5	10.1	5.1	60.8	81.5	20.1
Pioneer Brand 32H39	3	161.1	91.6	6.2	3.2	50.1	79.6	20.4
Pioneer Brand 32K72	3	178.0	91.2	3.2	5.0	50.6	80.7	20.6
Pioneer Brand 34P93	3	165.1	91.7	4.3	5.4	46.2	78.3	19.0
Vineyard V433W	3	168.2	90.0	5.2	6.3	51.5	80.1	21.0
Whisnand 50AW	3	164.1	90.3	11.0	4.7	61.7	81.9	20.2
Whisnand 51AW	3	156.3	90.0	6.5	5.3	59.0	82.6	20.6
Zimmerman 1780W	3	163.0	90.6	8.8	6.4	50.2	81.5	23.0
Zimmerman 1790W	3	168.3	91.1	7.0	6.1	51.1	81.3	21.9
Zimmerman N71-T7	3	165.7	90.3	8.4	4.1	55.0	80.8	20.6
Yellow check B73 × Mo17	3	155.5	88.9	8.2	4.5	54.1	80.0	20.3
Yellow check Pioneer Brand 3394	3	152.9	92.0	5.2	5.9	51.3	80.0	17.7
Mean		162.2	90.0	6.8	4.8	52.7	80.8	20.7

Table 50. Yield and agronomic data from common entries in the 1997-2000 Early White Food Corn Performance Tests.

Terrormanice resus.	**************************************		CONTRACTOR OF THE PARTY NAMED IN	-		_	-	****
E-4	37	37: _1.1	C4	Root	Stalk	Ear	Days to	
Entry	Years	Yield	Stand	lodged	lodged	height	flower	Moist.
	(no)	(bu/a)	(%)	(%)	(%)	(in)	(no)	(%)
Asgrow RX776W	4	158.8	91.5	1.9	3.5	41.7	81.4	21.8
Diener D 114W	4	154.6	88.4	8.3	5.9	50.5	82.6	22.6
IFSI 90-1	4	150.1	87.8	6.4	6.8	55.8	82.7	21.3
IFSI 95-2	4	158.4	91.6	8.4	8.6	60.3	82.6	20.5
Pioneer Brand 32H39	4	160.7	93.1	7.0	4.6	49.6	80.5	20.9
Whisnand 50AW	4	157.9	91.6	10.1	8.7	60.6	82.9	20.6
Whisnand 51AW	4	150.5	91.4	6.6	8.8	57.5	83.3	21.2
• • • • • • • • • • • • • • • • • • • •		150.5 158.7	91.4	8.4	8.0	50.0	82.7	23.5
Zimmerman 1780W	4							
Zimmerman 1790W	4	160.8	91.2	6.1	7.3	50.5	82.1	22.4
Yellow check $B73 \times Mo17$	4	148.3	90.9	6.4	7.4	53.6	80.8	20.6
Yellow check Pioneer Brand 3394	4	154.9	93.7	4.1	6.6	50.4	81.0	17.9
Mean	APARAMAN TORSESTER SANCTON OF	155.8	91.2	6.7	6.9	52.7	82.1	21.2

Table 51. Yield and agronomic data from common entries in the 1996-2000 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.
IFSI 90-1	5	150.8	88.6	5.4	11.0	54.9	83.5	21.3
IFSI 95-2	5	157.6	92.5	7.0	13.2	58.9	83.3	20.5
Pioneer Brand 32H39	5	160.1	94.3	5.9	9.1	48.7	81.3	20.9
Whisnand 50AW	5	157.5	92.8	8.8	13.1	59.0	83.6	20.6
Whisnand 51AW	5	151.3	92.8	6.1	13.5	56.0	84.1	21.2
Zimmerman 1780W	5	158.0	93.4	6.8	11.5	48.9	83.5	23.7
Zimmerman 1790W	5	160.0	92.2	5.4	10.7	49.2	83.1	22.8
Yellow check B73 × Mo17	5	148.4	91.7	5.6	11.8	52.3	81.6	20.7
Yellow check Pioneer Brand 3394	5	155.0	94.0	3.4	10.6	48.8	81.8	18.2
Mean		155.4	92.5	6.0	11.6	53.0	82.9	21.1

