

White Maize

1983 National Crop Performance



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The 1983 National White Maize Variety Trial involved 97 hybrids plus three yellow checks submitted by 20 commercial seed producers or public institutions (Table 1). Fourteen locations were included in the agronomic evaluation. Acceptable data were received from sites in Indiana, Kansas, Tennessee, and Texas. Virus data were obtained from Waverly, Tennessee, and House Springs, Missouri; and European corn borer data were taken at Columbia and Portageville, Missouri. Grain samples were evaluated for quality aspects at The Quaker Oats Company research laboratory at Barrington, Illinois.

ENTRIES AND SEED SOURCES

Contributors of seed for the 1983 evaluation are listed in Table 1. Those entries that have an EXP as part of the hybrid name, such as Jacques EXP 83110, have not been released. The last three named hybrids in each table are yellow kernel hybrid checks.

For averages over years, entry names have been changed to present designations so an experimental hybrid would be identified as the released hybrid. Pioneer Brand EXP X5386 was released as Pioneer Brand 519. Sturdy Grow EXP 9649 was released as Sturdy Grow SG910W, and Sturdy Grow EXP 0614 was released as Sturdy Grow SG912W. The ACCO brand name was changed to Paymaster for all numbered hybrids. Meacham's MV48, MV58, MV68, and MV88 are now listed as White Seeds with the same numbers.

Seed of the yellow check entry B73 x Mo17 was provided by Dr. J. Thomas, formerly of the Missouri Farmers Association, Columbia, Missouri; Pioneer Brand 3320 was contributed by Dr. J. Wright, Pioneer Hi-Bred International, Union City, Tennessee; and US13 was provided by the University of Missouri.

SITE LOCATIONS AND AGRONOMIC PRACTICES

Table 2 lists the sites returning acceptable data, together with a record of the agronomic practices. Dots indicate that treatment was not applied or the information was not available.

DATA COLLECTED

Yield

Yields were measured on a plot basis, converted to bushels per acre, and adjusted to 15.5 percent moisture.

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 degrees from vertical, and as stalk lodged if it was broken over or off below the ear. Breakage above the ear was not counted.

Ear height

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

Days to flowering

The number of days from planting to mid-tassel or mid-silk is shown.

Grain moisture

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

European corn borer

Feeding by the second generation of the European corn borer was determined by splitting stalks of 10 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. Three egg masses and 20 larvae were applied at flowering, and stalks were split six or more weeks later.

Virus ratings

Virus infection percentage is the percentage of plants in the plot

showing symptoms. Virus severity is a rating of diseased plants, using a scale on which 2 represents a mildly diseased plant and 9 represents a severely damaged plant. Non-affected plants (scored 1) are not included. Average virus rating is the mean severity of all plants in the plot. Viruses included in the rating were maize dwarf mosaic virus and maize chlorotic dwarf virus which occur together under field conditions.

Environmental yield response (b_I) and standard deviation of fit

These statistics are shown only in Table 10 for the entry means combined over all sites. The yield response (b_I) is expressed as bu/a/unit increase in the environmental index, where the index for a site is the average performance of all hybrids at the site. The deviation of fit is given in bu/a. The origin and use of these statistics are fully described below.

Percent horneous endosperm

The percent horneous endosperm was visually estimated using a candling light. Ten to 15 kernels were observed for each entry.

Kernel weight

The 100-kernel weight in grams was obtained from 100 randomly selected whole kernels.

Kernel density

Kernel density was calculated from kernel weight and volume using water displacement. Values are in grams per cubic centimeter.

STATISTICAL ANALYSIS AND INTERPRETATION

The data were analyzed as a three-replication, triple lattice at each site. Means adjusted for blocks were used only for yield; other character means are those from a randomized complete block analysis. 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 site analyses

of variance (AOV). Where differences among hybrids were not significant for a character, no LSD or CV% is shown. Occasionally, data were 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, then the difference observed will be a true difference 19 out of 20 times the two hybrids are grown under conditions similar to those of the test.

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

Agronomic data combined from seven locations with an appropriate LSD 0.05 for each character are shown in Table 10. The combined LSD 0.05 is based on the entry x site interaction versus the pooled error from the combined AOV. When a character was not observed at a site, dots show in the site 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 site 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 site. A hybrid that is stable will have a regression coefficient (b_I) equal to 1.0, meaning 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.

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

Overall, a desirable hybrid would have a high mean yield, $b_I = 1.0$, and low deviation from fit. If a grower knew that he 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.

NARRATIVE SUMMARY

Yields from individual sites ranged from 139.9 bu/a at Halfway, TX to 43.4 bu/a at Highland, KS. The overall average for seven sites was 96.1 bu/a; considerably less than in 1982 (126.7 bu/a). Sites in Kentucky, Illinois, Iowa, and Missouri failed altogether and one site in Texas was lost. Plot stands averaged 86.5%, ranging from 66.8% at Highland, KS, to 100% at Union City, TN. Covariance adjustment of yield for stand was done at three sites where the relative efficiency ($100 \times \text{unadjusted error mean square} / \text{adjusted error mean square}$) exceeded 104%. Root lodging was low at all sites except Highland, KS (26.2%), and Manhattan, KS (32.8%). Stalk lodging was low at Lafayette, IN (1.3%), and Knoxville, TN (1.5%), and moderate elsewhere. Average days to flowering (four sites) was 80.8, ranging from 77.0 days at Rossville, KS, to 85.7 days at Halfway, TX. Low grain moisture percentages would have been observed where plots were harvested and dried before shelling and weighing, however, most sites were combine harvested. Details of site data are in Tables 3-9.

Combined agronomic data from seven sites (Table 10)

Five white hybrids and one yellow check yielded significantly more than the mean of all entries: DeKalb 24301 (116.4 bu/a), IFSI 83-1 (115.3 bu/a), Whisnand 93W (112.2 bu/a), Sturdy Grow EXP 17563 (111.3 bu/a), Ring Around RA2606W (111.2 bu/a), and the yellow check Pioneer Brand 3320 (118.0 bu/a). The site x entry interaction was highly significant indicating different entry responses in different environments.

Root lodging occurred more frequently than in 1982. Princeton SX910 (18.4%) and Whisnand 91W (18.4%) lodged significantly more than the mean of all entries (9.8%).

Stalk lodging percentages averaged 10.5 for all hybrids and sites. NC+ 6708W (3.3%) and Sturdy Grow EXP 17563 (2.3%) lodged significantly less than the mean of all hybrids. The yellow check US13, Meacham's MX50W, DeKalb 24126, IFSI 81-5, O's Gold SX2560W, and Whisnand 55W all stalk lodged significantly more than the mean.

Nine white hybrids were significantly shorter than the average of all hybrids. Among these, with an ear height less than 40 inches, were: Golden Harvest H-2664W (39.9 in), MO EXP 83-9 (38.6 in), and Whisnand 53W (36.7 in).

DeKalb 24126 and Paymaster 399W had ear heights exceeding 50 inches.

Twenty-two hybrids were significantly earlier than the mean of all hybrids with Whisnand 53W (74.5 days), Golden Harvest H-2664W (75.1 days), and Jacques W200 (76.0 days) being the earliest. DeKalb 24126 (86.8 days) and Funk G-4787W (85.2 days) were significantly later than most other entries.

Differences in grain moisture measured when combine harvesting at one location are reduced when averaged with moistures measured after uniform drying of hand-harvested plots. Seventeen white hybrids and the three yellow checks had significantly lower moisture percentages than the average of all entries (20.8%). Jacques W190 (17.3%) and Whisnand 57W (17.4%) were two LSD's less than the mean. The wide range of moistures observed suggests that seedsmen are offering a range of maturities in white hybrids. None of the four highest yielding white hybrids had moistures significantly less than the mean, and two were significantly above the mean moisture.

The environmental response coefficients (b_I) and standard deviations of fit are shown in the last two columns of Table 10. (A difference of ± 0.18 from 1.0 is necessary for significance. The LSD 0.05 should be used when comparing coefficients of two hybrids.) The b_I for 24 entries was significantly greater than 1.0, indicating greater than average response to better environmental conditions, but poor performance in adverse environments. Hybrids that had environmental responses two or more LSD's above 1.0 were Funk G-4779W (1.36), O's Gold EXP 25501W (1.45), Ring Around RA2602W (1.47), Ring Around RA3605W (1.47), and Sturdy Grow EXP 17563 (1.39). Of these, only Sturdy Grow EXP 17563 was among the five white hybrids yielding significantly more than the mean of all hybrids. Twelve hybrids' responses were significantly lower than 1.0. Usually, nonresponsiveness is associated with low mean yields.

The standard deviations of fit varied for similar environmental response coefficients. For instance, Paymaster 399W ($b_I = 1.21$) had a standard deviation of 4.8 bu/a while White Seeds MV58 ($b_I = 1.20$) had a standard deviation of 15.7 bu/a. The latter's response to environment would be less predictable than the former's, though they both should respond far more than average ($b_I = 1.0$).

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

Virus susceptibility data (Table 11)

Virus ratings were made at House Springs, MO, and Waverly, TN, under conditions expected to result in high levels of incidence. Differences among entries were not significant for percent infected plants, mean virus severity, or average virus rating at House Springs, MO. Only the data from Waverly, TN, have been included in this report. Eighty-eight percent of the plants were infected and showed virus symptoms with an average virus rating of 3.8 on a 1-to-9 scale in which 9 represented a severely infected plant. Four hybrids had virus infection percentages significantly lower than the mean: IFSI 80-6 (71.2%), IFSI 82-4 (71.1%), O's Gold EXP 25501W (72.6%), and Paymaster 386036W (67.5%). Three entries, IFSI 80-4, MO EXP 83-10, and P-A-G SX 70W had 100% infected plants.

European corn borer susceptibility data (Table 12)

Feeding of the first generation larvae was insufficient for ratings to be made. Corn borer tunnel length observations were made at Columbia and Portageville, MO. Differences among entries for numbers of tunnels and tunnel length were not significant at Portageville and those data are not shown. Tunneling due to the second and later generations of the corn borer averaged 5.6 inches per stalk at Columbia. Two white hybrids, P-A-G EXP 106184W (3.9 in) and Whisnand EXP 1W (3.9 in), and the yellow check Pioneer Brand 3320 (2.9 in) had significantly less tunneling than the average of all entries. Significantly more tunneling was found for IFSI 83-2 (7.3 in), Sturdy Grow SG910W (7.3 in), and Sturdy Grow SG935W (7.6 in) than in most other entries.

Two-, three-, four-, and five-year mean yields and agronomic performance (Tables 13-16)

Data were summarized for common entries in the last two, three, four, and five years of the National White Maize Variety Trial. Individual year means were averaged without weighting for the varying numbers of sites over the years. However, recently, the number of acceptable sites has ranged from 7 in 1983, to 15 in 1979. This procedure does not permit an LSD to be directly calculated. Since the yearly combined yield LSD has been running about 10% of the mean, approximate values of 8 bu/a for the two-year means, 7 bu/a for the three-year means, 5-6 bu/a for the four-year means, and 5 bu/a for the five-year means could be used to compare yields of individual entries in the

respective tables.

Among the common entries from 1979 to 1983, Pioneer Brand 519 (121.6 bu/a) and Sturdy Grow SG935W (118.3 bu/a) might be judged better than the average white entry. A relatively poorer performer was Golden Harvest H-2644W (92.3 bu/a).

Comparison of white and yellow kernel entries (Table 17)

Grain yield, stalk lodging, ear height, and days to flowering for the 97 white entries and two yellow checks, B73 x Mo17 and Pioneer Brand 3320, are compared in Table 17. At all sites, the average yield of the yellow checks was better than the white hybrids, having a 15.5 bu/a advantage overall. The yellow check, US13, was omitted since it is not currently grown, but can be used as a benchmark for performance in past years. The white entries generally lodged more, had slightly greater ear height, and were 3.3 days later to flowering than the two yellow checks.

Milling quality evaluation of entries in the 1982 Trial

Milling quality of entries in the 1982 National White Maize Variety Trial was evaluated by The Quaker Oats Company's research laboratories. Because of the time necessary for evaluation, results are not obtained until the following year. Target values used by The Quaker Oats Company are 90% or more horneous endosperm, a weight of 37 g or more per 100 kernels, and a density equal to or exceeding 1.20 g/cc.

According to their criteria, the following hybrids grown in 1982 would be most desirable: Asgrow RX813W, IFSI 74-3, Jacques W200, White Seeds MV78, Paymaster U398W, O's Gold SX2680W, and Sturdy Grow SG935W.

Table 1. Sources of commercial white kernel maize hybrids entered in the 1983 National White Maize Variety Trial.

Brand	Firm [†]	Address
Asgrow	Asgrow Seed Company	Kalamazoo, MI 49001
Coker	Coker's Pedigreed Seed Co.	Box 340, Hartsville, SC 29550
DeKalb	DeKalb-Pfizer Genetics	Sycamore Road, DeKalb, IL 60115
Funk	Funk Seeds International	1300 West Washington Street Bloomington, IL 61701
Golden Harvest	Columbiana Seed Company	Eldred, IL 62027
IFSI	Illinois Foundation Seeds	Box 722, Champaign, IL 61820
Jacques	Jacques Seed Company	Prescott, WI 54021
Meacham's	Meacham's Hybrids	Box 239, Morganfield, KY 42437
NC+	NC+ Hybrids	3820 North 56th Street, Lincoln, NE 68504
O's Gold	O's Gold Seed Company	Box 460, Parkersburg, IA 50665
P-A-G	P-A-G Seeds	Box 470 Aurora, IL 60507
Paymaster	ACCO Seeds	Box 9, Belmond, IA 50421
Pioneer	Pioneer Hi-Bred Int'l.	1206 Mulberry Street, Des Moines, IA 50308
Princeton	Princeton Farms	Princeton, IN 47670
Ring Around	Ring Around Products	Box 589, Montgomery, AL 36195
Sturdy Grow	Sturdy Grow Hybrids	Box 94, Arcola, IL 61910
Whisnand	Whisnand Hybrids	RFD 1, Arcola, IL 61910
White Seeds	Vineyard Seed Farms	Box 547, Morganfield, KY 42437
Zimmerman	Zimmerman Hybrids	Box 275B, Evansville, IN 47712

[†] Mention of a trademark or proprietary product does not constitute a guarantee or warranty of the product by the U. S. Dept. 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. Site locations and agronomic conditions for yield trials.

Site	Mean yield (bu/a)	Previous crop	Fertilizer (lbs/a)			Date planted	Herbicide	Insecticide	Plant density (/a)
			N	P ₂ O ₅	K ₂ O				
Lafayette, IN	68.0	.	.	.	.	.	.	.	.
Highland, KS	43.4	Soybeans	186	64	32	10MAY83	Alachlor, atrazine, cyanazine	.	19,000
Manhattan, KS	84.8	Wheat	200	0	0	5MAY83	Alachlor, cyanazine	.	19,000
Rossville, KS	94.8	Soybeans	185	42	21	4MAY83	Atrazine, butylate	Carbofuran	21,000
Knoxville, TN	108.6	Soybeans	168	120	120	28APR83	Alachlor, atrazine	.	21,780
Union City, TN	133.0	Maize	160	69	93	21APR83	Atrazine, metolachlor	Carbofuran	20,000
Halfway, TX	139.9	Maize	.	.	.	21APR83	.	.	20,000

Dots indicate 'not applied' or information not available.

Table 3. Yield and agronomic data from the 1983 National White Maize Variety Trial at Lafayette, IN.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days flwr (no)	Moist (%)
ASGROW RX813W	1	25.1	100.0	10.0	2.7	44.8	.	22.9
ASGROW RX962W	2	40.3	96.7	13.7	0.0	47.4	.	22.9
COKER 833W	3	48.2	100.0	0.7	2.0	40.9	.	27.7
DEKALB 10080	4	89.8	91.3	3.7	0.7	53.3	.	22.7
DEKALB EXP 375	5	77.1	99.3	2.0	1.3	50.7	.	23.3
DEKALB 24126	6	41.3	99.3	8.7	2.0	50.0	.	25.9
DEKALB 24301	7	101.5	90.7	2.0	0.0	45.5	.	19.7
DEKALB XL390B	8	52.1	93.3	0.8	1.4	46.1	.	23.4
FUNK G-4747W-1	9	51.8	100.0	0.7	2.7	49.4	.	24.2
FUNK G-4768W	10	45.0	100.0	2.7	0.0	52.0	.	26.7
FUNK G-4779W	11	51.0	98.0	5.4	0.7	51.3	.	26.0
FUNK G-4787W	12	37.5	98.7	4.2	0.0	50.0	.	28.9
GOLDEN HARVEST H-2644W	13	35.0	100.0	2.7	1.3	40.9	.	18.5
GOLDEN HARVEST H-2660W	14	39.1	98.7	6.8	0.0	45.5	.	25.7
IFSI 74-3	15	60.1	98.0	2.7	2.0	48.7	.	24.4
IFSI 77-1	16	54.1	95.3	0.0	0.0	50.7	.	23.8
IFSI 80-4	17	88.3	100.0	1.3	0.7	48.1	.	24.6
IFSI 80-6	18	91.9	99.3	1.3	0.0	48.1	.	24.9
IFSI 80-8	19	82.5	100.0	0.0	2.7	50.7	.	26.0
IFSI 81-3	20	111.1	100.0	0.7	2.0	51.3	.	26.4
IFSI 81-5	21	85.2	98.7	0.0	4.1	48.1	.	21.3
IFSI 82-2	22	87.8	100.0	2.0	0.0	44.8	.	27.6
IFSI 82-4	23	89.2	90.7	1.5	0.0	46.8	.	26.3
IFSI 83-1	24	108.6	100.0	0.0	2.7	47.4	.	24.7
IFSI 83-2	25	69.4	99.3	0.0	0.0	48.1	.	25.6
IFSI 83-3	26	65.1	83.3	0.0	2.4	46.8	.	26.0
IFSI 83-4	27	87.0	100.0	2.0	5.3	47.4	.	25.4
IFSI 83-5	28	78.0	90.0	3.0	0.0	46.8	.	25.4
JACQUES EXP W83110	29	64.1	100.0	0.0	1.3	47.4	.	20.7
JACQUES EXP W83115	30	78.2	100.0	6.0	2.0	53.3	.	24.1
JACQUES W190	31	35.2	100.0	0.0	0.7	45.5	.	18.3
JACQUES W200	32	43.7	100.0	2.7	0.7	48.7	.	20.8
JACQUES W300	33	61.3	95.3	0.7	0.0	50.0	.	24.6
MEACHAM'S MX50W	39	72.0	96.7	2.8	8.8	42.2	.	23.6
MO EXP 83-1	40	58.4	98.7	0.0	0.0	50.7	.	20.8
MO EXP 83-2	41	43.0	100.0	6.0	0.0	46.1	.	26.6
MO EXP 83-3	42	63.4	100.0	2.0	2.0	47.4	.	21.2
MO EXP 83-4	43	29.2	98.0	2.1	0.0	44.2	.	27.7
MO EXP 83-5	44	78.4	99.3	3.3	0.7	49.4	.	21.8
MO EXP 83-6	45	55.5	96.7	7.4	0.0	46.8	.	27.1
MO EXP 83-7	46	60.1	92.0	0.0	1.4	47.4	.	20.5
MO EXP 83-8	47	76.9	99.3	0.7	0.0	48.1	.	24.0
MO EXP 83-9	48	58.0	97.3	0.0	0.7	37.7	.	24.3
MO EXP 83-10	49	39.9	79.3	4.2	0.0	48.1	.	25.7
MO EXP 83-11	50	71.1	100.0	1.3	0.0	46.1	.	24.0
MO EXP 83-12	51	93.2	100.0	2.0	2.0	51.3	.	24.3
MO EXP 83-13	52	58.2	100.0	12.7	0.7	48.7	.	25.0
NC+ 6708W	53	72.8	96.7	2.7	0.7	48.1	.	19.4
NC+ 8707W	54	77.7	100.0	6.0	2.0	50.0	.	26.3
O'S GOLD EXP 25113W	55	74.8	99.3	1.3	0.7	44.8	.	20.2
O'S GOLD EXP 25501W	56	56.2	96.7	0.7	0.7	49.4	.	22.4
O'S GOLD EXP 25922W	57	74.6	100.0	0.7	0.0	48.7	.	21.1
O'S GOLD SX2560W	58	57.7	100.0	0.0	6.0	50.0	.	20.8
O'S GOLD SX2680W	59	86.8	99.3	4.7	0.0	52.6	.	23.5
P-A-G EXP 106184W	60	66.9	94.7	0.7	1.3	47.4	.	21.6

Table 3. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days flwr (no)	Moist (%)
P-A-G 644W	61	57.5	98.7	0.7	3.3	48.7	.	21.3
P-A-G SX 70W	62	74.5	100.0	0.7	6.7	44.2	.	23.6
PAYMASTER 399W	63	60.6	100.0	8.7	0.0	61.1	.	24.7
PAYMASTER 386036W	64	59.0	100.0	2.7	2.7	45.5	.	24.6
PAYMASTER UC1800W	65	55.8	98.0	3.4	3.4	50.0	.	21.3
PAYMASTER UC2100W	66	60.9	100.0	6.7	0.0	47.4	.	27.5
PAYMASTER U398W	67	66.4	97.3	4.7	3.4	49.4	.	24.5
PIONEER BRAND 519	68	86.4	100.0	0.0	2.7	48.1	.	19.8
PRINCETON SP936	69	93.1	87.3	7.0	2.5	52.0	.	24.3
PRINCETON SX910	70	62.6	87.3	2.2	0.7	47.4	.	23.8
RING AROUND RA2602W	71	55.8	100.0	4.0	2.7	47.4	.	24.3
RING AROUND RA2606W	72	76.7	100.0	2.0	1.3	46.8	.	24.9
RING AROUND RA3605W	73	59.8	99.3	16.9	1.4	49.4	.	24.4
STURDY GROW EXP 17563	74	90.0	100.0	7.3	0.0	47.4	.	23.6
STURDY GROW EXP 21621	75	84.7	98.7	2.0	1.4	44.8	.	22.4
STURDY GROW EXP 21637	76	96.3	92.7	1.6	2.1	52.0	.	23.3
STURDY GROW EXP 21642	77	83.8	98.7	6.0	0.7	50.7	.	23.4
STURDY GROW SG903W	78	51.9	100.0	7.3	0.7	41.6	.	19.0
STURDY GROW SG910W	79	51.6	100.0	11.3	0.0	48.7	.	21.2
STURDY GROW SG912W	80	95.4	97.3	0.0	2.0	51.3	.	20.4
STURDY GROW SG935W	81	74.4	95.3	5.8	0.0	51.3	.	24.0
WHISNAND EXP 1W	82	70.2	41.3	9.0	2.1	50.0	.	22.3
WHISNAND EXP 7W	83	71.1	80.7	3.1	0.9	48.1	.	21.1
WHISNAND EXP 77-2W	84	69.0	65.3	3.2	2.2	47.4	.	19.6
WHISNAND EXP 173	85	73.7	100.0	1.3	0.0	45.5	.	20.2
WHISNAND 53W	86	90.7	99.3	6.8	0.7	37.7	.	19.5
WHISNAND 55W	87	90.8	100.0	8.7	2.0	44.2	.	24.2
WHISNAND 57W	88	44.7	100.0	0.7	0.0	44.2	.	19.5
WHISNAND 71W	89	63.0	40.7	0.0	0.0	43.5	.	22.0
WHISNAND 77W	90	72.1	75.3	6.8	2.9	47.4	.	19.3
WHISNAND 91W	91	51.6	100.0	2.7	1.3	48.1	.	23.8
WHISNAND 93W	92	103.4	100.0	2.7	1.3	44.2	.	27.1
WHITE SEEDS MV48	34	85.8	100.0	0.7	0.0	49.4	.	25.0
WHITE SEEDS MV58	35	48.7	100.0	2.0	0.0	46.1	.	22.5
WHITE SEEDS MV68	36	66.9	97.3	3.3	2.1	45.5	.	19.5
WHITE SEEDS MV78	37	81.6	98.7	7.4	0.7	50.0	.	24.3
WHITE SEEDS MV88	38	74.1	91.3	4.8	1.3	51.3	.	24.3
ZIMMERMAN Z11W	96	47.2	100.0	4.7	0.7	48.1	.	23.9
ZIMMERMAN Z14	97	32.3	100.0	0.0	0.7	47.4	.	24.3
ZIMMERMAN Z52W	98	52.7	100.0	6.0	0.0	46.8	.	27.1
ZIMMERMAN Z53	99	61.5	100.0	0.0	0.7	48.7	.	26.5
ZIMMERMAN Z54	100	50.1	98.0	5.4	0.0	46.8	.	24.8
YELLOW CHECK B73 X M017	93	95.6	100.0	0.0	0.0	42.9	.	20.1
YELLOW CHECK PIONEER BRAND 3320	94	135.5	100.0	0.7	1.3	45.5	.	21.6
YELLOW CHECK US13	95	65.6	96.7	2.1	2.8	51.3	.	19.4
Mean		68.0	96.0	3.3	1.3	47.8	.	23.4
LSD 0.05		31.5	8.0	7.8	3.7	6.4	.	2.6
CV%		28.4	5.1	143.4	173.7	8.2	.	6.7

Table 4. Yield and agronomic data from the 1983 National White Maize Variety Trial at Highland, KS.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days flwr (no)	Moist (%)
ASGROW RX813W	1	31.8	30.6	8.7	16.0	.	.	20.9
ASGROW RX962W	2	34.1	71.5	43.7	4.0	.	.	25.4
COKER 833W	3	37.8	71.0	22.0	4.3	.	.	26.6
DEKALB 10080	4	48.6	52.7	29.8	10.9	.	.	22.7
DEKALB EXP 375	5	39.5	75.3	30.0	10.3	.	.	21.8
DEKALB 24126	6	32.5	59.7	28.1	14.9	.	.	25.7
DEKALB 24301	7	66.8	59.7	19.2	14.9	.	.	19.3
DEKALB XL390B	8	36.9	56.5	39.7	7.2	.	.	23.2
FUNK G-4747W-1	9	36.5	69.4	26.7	13.3	.	.	22.7
FUNK G-4768W	10	43.2	58.6	43.7	11.0	.	.	26.7
FUNK G-4779W	11	38.9	74.2	30.6	18.5	.	.	23.4
FUNK G-4787W	12	24.2	54.8	28.1	4.3	.	.	24.6
GOLDEN HARVEST H-2644W	13	34.6	69.4	12.8	14.6	.	.	19.6
GOLDEN HARVEST H-2660W	14	30.3	70.4	48.4	6.7	.	.	24.2
IFSI 74-3	15	36.5	69.4	44.4	3.8	.	.	25.1
IFSI 77-1	16	35.8	46.2	41.6	5.9	.	.	27.3
IFSI 80-4	17	48.2	60.2	26.1	8.6	.	.	20.8
IFSI 80-6	18	45.7	70.4	39.3	17.9	.	.	23.1
IFSI 80-8	19	52.4	75.3	37.4	19.2	.	.	24.3
IFSI 81-3	20	53.7	72.0	26.7	13.6	.	.	24.4
IFSI 81-5	21	56.7	73.1	4.3	11.8	.	.	20.5
IFSI 82-2	22	61.5	72.0	12.6	12.6	.	.	16.5
IFSI 82-4	23	51.8	66.1	17.2	12.2	.	.	23.8
IFSI 83-1	24	55.5	68.3	14.1	16.2	.	.	24.0
IFSI 83-2	25	53.5	68.3	14.6	11.5	.	.	24.2
IFSI 83-3	26	35.2	28.0	13.5	9.7	.	.	24.1
IFSI 83-4	27	55.5	72.0	9.8	14.2	.	.	22.8
IFSI 83-5	28	57.1	57.5	18.8	8.9	.	.	23.3
JACQUES EXP W83110	29	44.2	81.7	10.4	18.2	.	.	19.6
JACQUES EXP W83115	30	46.9	70.4	30.9	9.2	.	.	26.4
JACQUES W190	31	41.0	77.4	3.8	21.2	.	.	18.1
JACQUES W200	32	25.2	73.1	42.9	11.6	.	.	20.0
JACQUES W300	33	31.6	55.9	45.1	2.1	.	.	23.5
MEACHAM'S MX50W	39	47.3	66.1	21.7	28.2	.	.	22.9
MO EXP 83-1	40	43.0	65.1	28.0	6.2	.	.	20.9
MO EXP 83-2	41	27.3	69.4	38.8	11.4	.	.	22.5
MO EXP 83-3	42	47.9	54.3	28.0	9.2	.	.	21.8
MO EXP 83-4	43	41.7	66.1	8.0	7.5	.	.	22.1
MO EXP 83-5	44	35.4	67.7	31.0	15.0	.	.	21.2
MO EXP 83-6	45	39.3	76.3	40.6	2.6	.	.	22.7
MO EXP 83-7	46	44.5	57.5	8.5	17.4	.	.	19.1
MO EXP 83-8	47	64.1	52.7	4.8	7.2	.	.	20.5
MO EXP 83-9	48	48.4	64.5	42.1	18.5	.	.	21.6
MO EXP 83-10	49	38.4	38.2	14.9	13.7	.	.	21.5
MO EXP 83-11	50	45.6	65.6	45.6	9.2	.	.	24.1
MO EXP 83-12	51	40.9	68.3	30.8	25.1	.	.	21.5
MO EXP 83-13	52	29.8	67.2	35.1	9.7	.	.	23.0
NC+ 6708W	53	51.2	69.9	15.4	1.6	.	.	21.1
NC+ 8707W	54	40.4	84.4	49.1	18.4	.	.	24.5
O'S GOLD EXP 25113W	55	54.8	74.2	8.7	14.5	.	.	17.5
O'S GOLD EXP 25501W	56	53.4	71.0	23.6	8.9	.	.	22.4
O'S GOLD EXP 25922W	57	34.0	71.0	15.8	13.7	.	.	21.5
O'S GOLD SX2560W	58	38.3	80.1	11.6	25.9	.	.	18.9
O'S GOLD SX2680W	59	38.5	73.7	52.5	9.2	.	.	22.8
P-A-G EXP 106184W	60	47.5	73.7	18.5	28.7	.	.	22.3

Table 4. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days flwr (no)	Moist (%)
P-A-G 644W	61	33.0	63.4	31.4	20.2	.	.	24.3
P-A-G SX 70W	62	45.1	75.8	9.5	25.9	.	.	23.7
PAYMASTER 399W	63	35.0	73.7	50.8	11.6	.	.	25.9
PAYMASTER 386036W	64	48.6	79.6	37.3	17.7	.	.	22.9
PAYMASTER UC1800W	65	45.6	67.2	3.2	27.7	.	.	20.5
PAYMASTER UC2100W	66	42.8	80.6	15.8	11.7	.	.	26.2
PAYMASTER U398W	67	47.4	72.0	44.3	18.0	.	.	23.6
PIONEER BRAND 519	68	38.7	70.4	19.7	14.8	.	.	20.5
PRINCETON SP936	69	34.9	59.7	59.7	18.3	.	.	23.8
PRINCETON SX910	70	31.0	52.2	41.6	2.1	.	.	25.6
RING AROUND RA2602W	71	28.7	79.6	40.7	3.2	.	.	26.0
RING AROUND RA2606W	72	51.3	76.9	20.5	18.9	.	.	23.8
RING AROUND RA3605W	73	34.9	82.3	53.6	7.2	.	.	23.1
STURDY GROW EXP 17563	74	41.6	75.8	36.4	0.0	.	.	25.1
STURDY GROW EXP 21621	75	51.0	78.0	14.5	5.5	.	.	19.9
STURDY GROW EXP 21637	76	50.3	69.9	14.3	9.8	.	.	23.1
STURDY GROW EXP 21642	77	49.8	66.1	20.4	4.7	.	.	22.8
STURDY GROW SG903W	78	41.8	77.4	4.4	15.7	.	.	18.1
STURDY GROW SG910W	79	46.0	78.5	14.2	6.8	.	.	21.9
STURDY GROW SG912W	80	49.6	78.0	14.7	15.4	.	.	20.0
STURDY GROW SG935W	81	33.5	67.7	40.2	10.0	.	.	23.8
WHISNAND EXP 1W	82	27.7	36.6	36.1	20.4	.	.	22.6
WHISNAND EXP 7W	83	42.3	38.2	17.6	3.8	.	.	20.0
WHISNAND EXP 77-2W	84	49.2	48.4	18.4	20.3	.	.	19.0
WHISNAND EXP 173	85	39.3	58.6	8.6	2.9	.	.	21.0
WHISNAND 53W	86	48.0	69.9	5.2	19.3	.	.	18.6
WHISNAND 55W	87	43.0	81.2	31.8	18.5	.	.	21.9
WHISNAND 57W	88	44.8	69.9	10.7	12.3	.	.	20.1
WHISNAND 71W	89	35.3	25.8	12.3	13.5	.	.	20.5
WHISNAND 77W	90	26.5	33.3	38.5	16.5	.	.	20.2
WHISNAND 91W	91	41.5	67.7	49.6	9.3	.	.	25.7
WHISNAND 93W	92	64.3	73.7	12.2	3.5	.	.	23.9
WHITE SEEDS MV48	34	50.6	72.0	28.4	2.9	.	.	23.6
WHITE SEEDS MV58	35	60.2	78.0	21.6	4.4	.	.	22.5
WHITE SEEDS MV68	36	54.7	78.5	10.0	16.6	.	.	20.1
WHITE SEEDS MV78	37	35.9	62.9	39.6	15.1	.	.	23.9
WHITE SEEDS MV88	38	45.9	65.6	47.8	9.5	.	.	23.5
ZIMMERMAN Z11W	96	45.6	86.6	42.7	10.8	.	.	25.0
ZIMMERMAN Z14	97	55.2	81.2	18.7	14.9	.	.	23.8
ZIMMERMAN Z52W	98	38.4	78.0	44.4	15.9	.	.	25.2
ZIMMERMAN Z53	99	42.8	76.9	16.3	9.8	.	.	26.1
ZIMMERMAN Z54	100	47.1	70.4	21.5	11.7	.	.	23.1
YELLOW CHECK B73 X M017	93	65.5	70.4	11.3	7.3	.	.	18.8
YELLOW CHECK PIONEER BRAND 3320	94	53.5	67.7	30.6	2.4	.	.	19.4
YELLOW CHECK US13	95	29.3	58.6	18.1	19.1	.	.	19.9
Mean		43.4	66.8	26.2	12.3	.	.	22.5
LSD 0.05		17.2	14.5	19.2	13.4	.	.	3.5
CV%		24.3	13.3	44.9	66.9	.	.	9.4

Table 5. Yield and agronomic data from the 1983 National White Maize Variety Trial at Manhattan, KS.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days flwr (no)	Moist (%)
ASGROW RX813W	1	70.7	63.4	20.6	11.7	.	78.0	17.1
ASGROW RX962W	2	79.0	83.9	51.3	9.6	.	82.3	19.7
COKER 833W	3	90.9	73.1	5.6	4.4	.	81.7	18.4
DEKALB 10080	4	109.4	74.7	50.5	6.5	.	80.0	18.5
DEKALB EXP 375	5	91.6	72.0	60.0	6.9	.	81.7	19.1
DEKALB 24126	6	91.2	71.5	69.6	13.5	.	86.3	19.8
DEKALB 24301	7	106.9	78.5	50.5	6.6	.	76.7	17.8
DEKALB XL390B	8	88.1	55.9	23.6	3.8	.	81.0	17.3
FUNK G-4747W-1	9	80.7	73.1	40.8	10.8	.	82.3	18.9
FUNK G-4768W	10	95.6	85.5	61.9	3.9	.	82.3	20.5
FUNK G-4779W	11	81.1	77.4	36.7	8.1	.	81.0	17.8
FUNK G-4787W	12	94.6	73.7	63.0	4.6	.	83.7	18.9
GOLDEN HARVEST H-2644W	13	51.9	65.6	13.7	7.5	.	75.3	16.3
GOLDEN HARVEST H-2660W	14	59.4	83.9	34.8	7.9	.	81.7	17.9
IFSI 74-3	15	75.6	73.1	24.2	14.3	.	81.7	18.1
IFSI 77-1	16	87.4	78.5	56.0	12.5	.	81.7	20.3
IFSI 80-4	17	123.6	84.4	51.3	4.3	.	81.0	19.8
IFSI 80-6	18	86.9	81.2	20.7	9.7	.	81.0	16.9
IFSI 80-8	19	93.9	78.0	55.5	2.6	.	82.3	21.9
IFSI 81-3	20	89.2	70.4	22.6	9.1	.	80.0	18.5
IFSI 81-5	21	83.7	88.7	24.2	12.7	.	81.0	16.2
IFSI 82-2	22	93.8	84.9	9.7	5.7	.	81.0	19.0
IFSI 82-4	23	87.1	69.9	26.1	9.6	.	82.3	19.8
IFSI 83-1	24	100.6	84.9	15.3	6.9	.	80.0	17.9
IFSI 83-2	25	84.9	68.3	10.7	11.8	.	81.7	19.3
IFSI 83-3	26	81.2	52.7	29.4	5.5	.	81.0	19.0
IFSI 83-4	27	83.8	77.4	3.6	6.9	.	81.0	17.7
IFSI 83-5	28	98.6	72.0	32.3	6.8	.	80.0	17.1
JACQUES EXP W83110	29	97.9	82.3	15.1	5.2	.	81.0	15.1
JACQUES EXP W83115	30	74.5	78.0	31.6	7.4	.	81.0	18.6
JACQUES W190	31	83.0	76.3	12.6	15.9	.	76.0	14.5
JACQUES W200	32	39.3	74.7	37.0	6.0	.	76.7	15.3
JACQUES W300	33	80.6	78.5	63.8	14.1	.	81.7	20.2
MEACHAM'S MX50W	39	91.1	76.3	30.2	16.1	.	81.0	18.0
MO EXP 83-1	40	85.4	75.3	35.2	17.9	.	84.0	16.5
MO EXP 83-2	41	77.2	74.7	14.1	1.2	.	80.3	18.3
MO EXP 83-3	42	79.2	71.5	41.2	6.0	.	82.3	16.8
MO EXP 83-4	43	85.0	77.4	27.1	10.8	.	82.3	19.4
MO EXP 83-5	44	78.3	75.8	28.4	7.4	.	82.7	16.2
MO EXP 83-6	45	96.1	80.1	45.4	9.7	.	81.7	18.1
MO EXP 83-7	46	86.9	67.7	14.8	7.8	.	79.0	15.0
MO EXP 83-8	47	71.6	72.0	16.1	5.3	.	81.7	17.3
MO EXP 83-9	48	78.2	84.4	54.5	0.7	.	80.0	18.4
MO EXP 83-10	49	76.1	52.2	12.3	6.3	.	81.0	16.2
MO EXP 83-11	50	97.8	71.0	52.1	11.5	.	82.3	20.2
MO EXP 83-12	51	99.1	71.0	18.6	11.8	.	81.7	16.9
MO EXP 83-13	52	80.7	83.9	23.4	14.2	.	83.7	18.9
NC+ 6708W	53	103.5	68.8	24.8	1.2	.	81.0	16.6
NC+ 8707W	54	98.0	87.6	34.6	21.6	.	83.0	19.4
O'S GOLD EXP 25113W	55	67.8	75.3	27.9	10.0	.	76.7	15.5
O'S GOLD EXP 25501W	56	87.5	81.7	33.0	10.0	.	81.0	17.5
O'S GOLD EXP 25922W	57	83.5	76.3	9.7	13.6	.	79.0	16.2
O'S GOLD SX2560W	58	79.4	87.1	32.6	14.3	.	80.0	16.1
O'S GOLD SX2680W	59	84.1	81.2	27.8	15.9	.	81.7	17.9
P-A-G EXP 106184W	60	80.2	85.5	45.0	2.5	.	81.7	17.3

Table 5. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days flwr (no)	Moist (%)
P-A-G 644W	61	81.7	68.8	40.8	17.4	.	83.0	16.3
P-A-G SX 70W	62	96.9	84.9	48.6	13.3	.	81.0	19.2
PAYMASTER 399W	63	88.9	74.7	45.3	18.3	.	81.7	19.9
PAYMASTER 386036W	64	91.1	79.6	64.1	7.0	.	81.0	18.9
PAYMASTER UC1800W	65	80.3	81.2	16.8	24.4	.	81.0	16.7
PAYMASTER UC2100W	66	80.5	88.7	49.3	9.2	.	81.7	21.0
PAYMASTER U398W	67	59.3	75.3	24.1	15.6	.	82.3	18.2
PIONEER BRAND 519	68	92.3	84.9	58.6	14.3	.	81.0	15.7
PRINCETON SP936	69	89.1	73.7	44.3	9.8	.	81.7	18.0
PRINCETON SX910	70	81.4	61.8	76.9	4.4	.	81.7	20.3
RING AROUND RA2602W	71	67.8	90.3	55.9	20.2	.	81.7	19.4
RING AROUND RA2606W	72	116.1	86.0	43.7	8.2	.	81.0	20.4
RING AROUND RA3605W	73	69.5	71.0	42.3	10.1	.	81.7	18.5
STURDY GROW EXP 17563	74	80.2	83.3	23.0	3.9	.	82.3	19.3
STURDY GROW EXP 21621	75	84.7	74.2	13.7	3.5	.	79.0	16.7
STURDY GROW EXP 21637	76	84.0	83.9	27.1	9.1	.	81.0	17.9
STURDY GROW EXP 21642	77	83.5	80.1	21.1	10.5	.	82.3	18.0
STURDY GROW SG903W	78	75.4	80.6	13.5	6.6	.	78.0	14.9
STURDY GROW SG910W	79	80.0	84.4	10.8	3.3	.	80.0	17.7
STURDY GROW SG912W	80	79.2	68.3	17.1	6.3	.	80.0	16.3
STURDY GROW SG935W	81	86.0	53.8	9.5	17.1	.	82.3	17.8
WHISNAND EXP 1W	82	72.9	34.9	28.3	9.9	.	79.0	16.8
WHISNAND EXP 7W	83	83.8	48.9	43.4	7.7	.	77.0	14.8
WHISNAND EXP 77-2W	84	81.1	47.3	32.7	9.6	.	80.0	15.4
WHISNAND EXP 173	85	106.6	67.2	30.6	3.9	.	80.0	16.6
WHISNAND 53W	86	79.8	78.0	17.0	4.9	.	74.3	15.2
WHISNAND 55W	87	94.1	88.2	42.3	17.5	.	76.7	16.6
WHISNAND 57W	88	67.1	84.9	9.6	6.9	.	77.3	15.1
WHISNAND 71W	89	77.2	40.3	30.2	21.2	.	79.0	16.2
WHISNAND 77W	90	76.6	54.3	41.6	5.9	.	80.0	16.3
WHISNAND 91W	91	77.7	88.2	68.9	9.7	.	81.7	20.6
WHISNAND 93W	92	99.7	96.8	40.1	10.6	.	81.0	20.7
WHITE SEEDS MV48	34	94.0	78.0	41.6	12.4	.	82.3	19.9
WHITE SEEDS MV58	35	76.4	83.9	21.2	10.9	.	81.0	17.3
WHITE SEEDS MV68	36	83.8	79.6	23.6	11.8	.	80.0	16.2
WHITE SEEDS MV78	37	81.6	75.8	24.9	14.1	.	81.7	18.1
WHITE SEEDS MV88	38	94.3	73.1	21.1	13.0	.	81.0	18.6
ZIMMERMAN Z11W	96	78.5	84.9	39.7	18.1	.	82.3	19.0
ZIMMERMAN Z14	97	107.8	86.0	39.1	15.5	.	81.0	19.0
ZIMMERMAN Z52W	98	82.3	88.2	31.2	18.9	.	81.7	18.2
ZIMMERMAN Z53	99	87.2	76.9	26.4	3.6	.	82.3	19.9
ZIMMERMAN Z54	100	82.0	85.5	22.0	8.6	.	80.0	17.7
YELLOW CHECK B73 X M017	93	85.1	73.1	17.6	7.4	.	78.0	15.4
YELLOW CHECK PIONEER BRAND 3320	94	99.4	78.0	31.0	8.2	.	79.0	15.7
YELLOW CHECK US13	95	60.8	47.8	32.9	30.4	.	80.0	15.3
Mean		84.8	75.3	32.8	10.0	.	80.8	17.8
LSD 0.05		21.6	16.3	30.8	11.4	.	2.2	1.2
CV%		15.6	13.3	57.4	69.8.	.	1.6	4.3

Table 6. Yield and agronomic data from the 1983 National White Maize Variety Trial at Rossville, KS.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days flwr (no)	Moist (%)
ASGROW RX813W	1	91.4	73.0	0.0	4.8	.	73.0	22.3
ASGROW RX962W	2	75.9	77.0	1.9	18.6	.	79.0	23.4
COKER 833W	3	132.0	72.1	0.0	11.1	.	76.7	21.0
DEKALB 10080	4	94.4	68.1	3.6	16.6	.	77.3	21.2
DEKALB EXP 375	5	91.5	77.0	6.0	13.2	.	78.0	20.1
DEKALB 24126	6	87.8	77.9	0.7	43.3	.	85.0	23.0
DEKALB 24301	7	126.1	71.6	4.3	4.8	.	74.3	19.1
DEKALB XL390B	8	79.3	56.9	0.9	16.1	.	76.7	18.6
FUNK G-4747W-1	9	85.8	77.9	3.1	20.1	.	78.3	21.8
FUNK G-4768W	10	76.5	75.0	1.2	14.1	.	77.0	21.7
FUNK G-4779W	11	95.8	68.1	0.0	19.5	.	78.3	22.5
FUNK G-4787W	12	69.7	71.6	1.6	11.0	.	83.0	23.2
GOLDEN HARVEST H-2644W	13	86.8	78.4	0.6	13.2	.	72.0	19.1
GOLDEN HARVEST H-2660W	14	74.4	77.5	1.4	25.0	.	79.0	22.6
IFSI 74-3	15	94.8	63.2	0.0	16.0	.	78.0	20.9
IFSI 77-1	16	76.2	65.2	4.8	27.1	.	79.0	23.9
IFSI 80-4	17	99.4	75.0	0.6	16.6	.	75.3	22.1
IFSI 80-6	18	106.5	70.6	2.2	17.3	.	75.0	22.7
IFSI 80-8	19	97.6	74.5	0.0	22.7	.	77.0	23.1
IFSI 81-3	20	117.9	80.9	1.3	27.2	.	76.3	23.7
IFSI 81-5	21	109.6	81.4	0.0	23.5	.	76.3	18.8
IFSI 82-2	22	87.9	73.0	0.0	4.1	.	77.0	22.8
IFSI 82-4	23	100.2	67.6	0.7	16.6	.	77.0	24.3
IFSI 83-1	24	124.9	77.5	0.7	23.9	.	75.0	21.2
IFSI 83-2	25	104.8	72.5	0.0	2.1	.	79.0	24.0
IFSI 83-3	26	95.5	64.2	0.0	4.8	.	77.0	24.4
IFSI 83-4	27	98.6	82.8	0.0	7.2	.	77.0	22.5
IFSI 83-5	28	91.9	75.5	1.3	3.9	.	75.7	20.5
JACQUES EXP W83110	29	109.9	80.4	0.0	19.6	.	76.0	18.1
JACQUES EXP W83115	30	110.0	74.5	0.0	47.7	.	75.0	23.4
JACQUES W190	31	88.4	86.3	0.0	27.0	.	74.7	18.5
JACQUES W200	32	78.2	65.7	5.2	26.4	.	72.7	17.2
JACQUES W300	33	88.8	75.5	1.3	27.4	.	80.3	23.2
MEACHAM'S MX50W	39	85.0	75.5	1.3	33.6	.	78.3	21.0
MO EXP 83-1	40	96.3	73.0	0.0	6.7	.	78.3	19.2
MO EXP 83-2	41	81.3	69.6	0.7	16.6	.	77.7	19.5
MO EXP 83-3	42	91.9	72.5	4.1	18.3	.	78.3	20.4
MO EXP 83-4	43	57.3	75.5	0.7	4.5	.	80.3	20.5
MO EXP 83-5	44	96.9	77.5	3.2	8.9	.	77.3	19.4
MO EXP 83-6	45	99.7	74.5	0.0	5.2	.	77.7	20.2
MO EXP 83-7	46	102.5	63.2	0.0	10.0	.	74.0	17.8
MO EXP 83-8	47	81.6	73.0	0.6	18.1	.	78.3	22.2
MO EXP 83-9	48	94.1	74.5	0.7	0.0	.	75.0	19.9
MO EXP 83-10	49	89.8	61.8	0.9	6.0	.	76.7	22.3
MO EXP 83-11	50	84.6	81.4	7.7	14.5	.	79.0	20.9
MO EXP 83-12	51	96.3	78.4	7.7	15.6	.	81.0	21.5
MO EXP 83-13	52	92.8	88.2	5.5	15.5	.	81.0	23.3
NC+ 6708W	53	96.1	71.1	5.4	1.4	.	76.7	20.0
NC+ 8707W	54	89.9	80.9	1.8	27.3	.	77.7	23.1
O'S GOLD EXP 25113W	55	89.9	82.4	0.7	14.2	.	75.7	19.1
O'S GOLD EXP 25501W	56	99.9	90.2	4.1	16.4	.	77.0	20.8
O'S GOLD EXP 25922W	57	94.9	76.0	0.6	27.2	.	75.3	18.0
O'S GOLD SX2560W	58	93.1	81.4	1.2	41.3	.	74.7	18.9
O'S GOLD SX2680W	59	84.5	77.0	5.3	21.3	.	78.3	24.6
P-A-G EXP 106184W	60	95.0	80.9	0.5	25.0	.	76.0	20.9

Table 6. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days flwr (no)	Moist (%)
P-A-G 644W	61	78.3	79.4	0.6	29.0	.	80.0	22.3
P-A-G SX 70W	62	89.5	81.9	1.7	23.4	.	77.7	22.0
PAYMASTER 399W	63	97.7	76.5	2.0	22.3	.	77.7	21.7
PAYMASTER 386036W	64	95.0	83.8	0.0	13.9	.	78.0	22.6
PAYMASTER UC1800W	65	88.1	71.6	0.0	27.7	.	75.0	19.6
PAYMASTER UC2100W	66	91.8	77.0	4.4	12.1	.	76.7	24.1
PAYMASTER U398W	67	89.2	72.5	0.6	17.9	.	78.3	22.6
PIONEER BRAND 519	68	108.4	73.5	4.3	18.3	.	78.3	19.1
PRINCETON SP936	69	99.8	57.4	1.7	27.7	.	77.7	24.1
PRINCETON SX910	70	96.1	69.6	0.7	18.4	.	80.0	22.9
RING AROUND RA2602W	71	82.9	79.9	4.7	29.6	.	79.7	25.0
RING AROUND RA2606W	72	98.7	80.9	0.0	10.3	.	77.7	23.6
RING AROUND RA3605W	73	88.1	69.1	0.8	17.1	.	78.3	22.8
STURDY GROW EXP 17563	74	99.8	86.8	1.7	5.1	.	79.0	23.2
STURDY GROW EXP 21621	75	99.0	80.9	0.6	16.6	.	74.7	20.2
STURDY GROW EXP 21637	76	110.6	72.5	0.7	15.6	.	76.3	19.8
STURDY GROW EXP 21642	77	97.8	72.5	0.0	12.2	.	76.0	21.1
STURDY GROW SG903W	78	109.1	79.4	0.6	13.1	.	76.3	20.3
STURDY GROW SG910W	79	89.6	83.3	1.2	12.5	.	76.3	22.0
STURDY GROW SG912W	80	85.5	77.5	0.6	21.5	.	75.0	18.8
STURDY GROW SG935W	81	93.2	74.5	1.3	19.3	.	81.0	24.3
WHISNAND EXP 1W	82	104.4	45.1	2.2	16.7	.	75.0	19.8
WHISNAND EXP 7W	83	104.2	56.4	0.8	22.1	.	73.7	17.0
WHISNAND EXP 77-2W	84	84.8	55.4	4.2	26.2	.	74.7	18.4
WHISNAND EXP 173	85	106.7	78.4	2.4	3.1	.	76.0	20.6
WHISNAND 53W	86	97.8	68.6	5.7	32.4	.	71.0	17.5
WHISNAND 55W	87	110.2	76.0	3.7	30.3	.	74.3	21.0
WHISNAND 57W	88	86.1	81.9	0.0	20.3	.	75.7	19.5
WHISNAND 71W	89	77.7	37.7	2.6	14.6	.	74.7	19.3
WHISNAND 77W	90	110.1	59.8	0.8	22.1	.	74.7	18.9
WHISNAND 91W	91	90.9	66.7	3.1	29.0	.	78.3	24.4
WHISNAND 93W	92	104.2	84.8	0.0	13.2	.	75.3	22.5
WHITE SEEDS MV48	34	101.9	82.4	5.5	6.1	.	79.3	22.0
WHITE SEEDS MV58	35	96.7	76.5	1.9	7.7	.	76.3	19.5
WHITE SEEDS MV68	36	94.1	81.4	1.1	16.2	.	75.0	18.7
WHITE SEEDS MV78	37	90.7	63.7	1.3	25.7	.	77.7	23.1
WHITE SEEDS MV88	38	88.0	72.5	1.3	22.9	.	81.0	21.8
ZIMMERMAN Z11W	96	92.5	81.4	1.9	11.5	.	78.3	24.7
ZIMMERMAN Z14	97	99.9	84.8	1.2	4.0	.	77.7	21.5
ZIMMERMAN Z52W	98	90.3	82.8	0.5	18.4	.	80.3	23.6
ZIMMERMAN Z53	99	96.6	71.1	0.0	15.0	.	78.3	24.3
ZIMMERMAN Z54	100	102.8	75.0	0.0	14.4	.	75.7	22.1
YELLOW CHECK B73 X M017	93	107.3	75.0	0.7	13.6	.	74.7	18.0
YELLOW CHECK PIONEER BRAND 3320	94	116.6	65.7	0.7	11.5	.	75.7	16.7
YELLOW CHECK US13	95	93.1	66.7	1.3	41.1	.	75.0	17.5
Mean		94.8	74.0	1.7	17.6	.	77.0	21.2
LSD 0.05		23.0	11.3	4.5	16.1	.	2.4	2.6
CV%		14.9	9.4	163.1	55.9	.	1.9	7.4

Table 7. Yield and agronomic data from the 1983 National White Maize Variety Trial at Knoxville, TN.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days flwr (no)	Moist (%)
ASGROW RX813W	1	92.0	100.0	4.4	4.4	38.3	74.3	21.5
ASGROW RX962W	2	132.2	97.8	0.0	1.1	49.4	81.3	23.8
COKER 833W	3	120.8	100.0	0.0	1.1	42.2	80.3	23.9
DEKALB 10080	4	120.9	100.0	0.0	1.1	50.7	80.0	21.8
DEKALB EXP 375	5	117.8	100.0	0.0	2.2	44.8	81.3	23.0
DEKALB 24126	6	107.6	100.0	3.3	14.4	52.6	84.7	26.0
DEKALB 24301	7	112.2	98.9	9.1	0.0	44.8	77.3	22.2
DEKALB XL390B	8	115.6	100.0	1.1	2.2	50.0	81.7	21.2
FUNK G-4747W-1	9	114.9	95.6	2.5	2.2	43.5	81.7	23.2
FUNK G-4768W	10	120.9	98.9	4.5	3.3	47.4	81.3	24.5
FUNK G-4779W	11	123.1	100.0	0.0	1.1	46.8	83.0	23.0
FUNK G-4787W	12	117.9	100.0	0.0	0.0	47.4	84.0	24.6
GOLDEN HARVEST H-2644W	13	61.2	94.4	0.0	1.1	37.0	72.3	18.7
GOLDEN HARVEST H-2660W	14	111.7	102.2	4.3	1.1	46.1	80.7	23.0
IFSI 74-3	15	116.1	96.7	4.7	1.2	50.7	82.0	22.2
IFSI 77-1	16	122.9	96.7	1.1	0.0	46.8	82.0	23.6
IFSI 80-4	17	124.7	98.9	0.0	1.1	43.5	78.7	24.5
IFSI 80-6	18	103.1	101.1	0.0	1.1	48.1	78.0	22.1
IFSI 80-8	19	125.2	100.0	4.4	10.0	44.8	81.0	26.1
IFSI 81-3	20	113.2	98.9	0.0	0.0	52.0	78.0	23.2
IFSI 81-5	21	106.6	97.8	0.0	1.1	46.8	77.7	20.0
IFSI 82-2	22	115.7	100.0	0.0	0.0	44.8	79.3	24.8
IFSI 82-4	23	110.3	100.0	0.0	2.2	46.1	81.3	24.5
IFSI 83-1	24	104.1	98.9	0.0	1.1	43.5	79.0	23.7
IFSI 83-2	25	101.4	101.1	0.0	0.0	46.1	81.3	25.2
IFSI 83-3	26	110.6	88.9	0.0	1.4	40.9	79.3	25.2
IFSI 83-4	27	112.6	100.0	0.0	0.0	45.5	78.7	23.4
IFSI 83-5	28	108.3	97.8	0.0	0.0	40.9	82.3	24.0
JACQUES EXP W83110	29	113.8	100.0	0.0	0.0	48.7	78.7	20.1
JACQUES EXP W83115	30	114.1	100.0	0.0	0.0	45.5	79.3	23.4
JACQUES W190	31	83.2	100.0	0.0	0.0	39.6	76.0	17.4
JACQUES W200	32	68.4	98.9	0.0	1.1	45.5	74.7	17.2
JACQUES W300	33	110.7	100.0	0.0	1.1	47.4	81.3	22.6
MEACHAM'S MX50W	39	113.0	95.6	23.8	14.2	41.6	80.3	22.8
MO EXP 83-1	40	108.8	97.8	3.3	3.3	53.9	82.0	21.4
MO EXP 83-2	41	106.3	98.9	0.0	3.4	46.8	83.7	23.8
MO EXP 83-3	42	110.7	97.8	0.0	2.3	50.0	82.0	22.2
MO EXP 83-4	43	91.0	98.9	0.0	0.0	40.9	82.3	22.7
MO EXP 83-5	44	94.5	98.9	3.4	1.1	48.7	81.7	21.5
MO EXP 83-6	45	106.5	100.0	0.0	0.0	44.2	81.3	25.4
MO EXP 83-7	46	91.4	93.3	1.3	1.1	46.8	75.0	17.9
MO EXP 83-8	47	103.2	100.0	2.2	1.1	46.8	81.3	23.0
MO EXP 83-9	48	92.0	98.9	0.0	1.1	37.7	76.7	22.5
MO EXP 83-10	49	91.7	84.4	2.9	0.0	46.8	78.7	21.1
MO EXP 83-11	50	112.5	98.9	2.2	2.2	47.4	81.3	23.9
MO EXP 83-12	51	121.9	98.9	18.0	2.2	50.7	81.7	21.3
MO EXP 83-13	52	121.7	97.8	8.1	0.0	48.1	82.0	24.7
NC+ 6708W	53	92.0	101.1	2.2	0.0	43.5	79.7	20.0
NC+ 8707W	54	120.0	100.0	0.0	0.0	45.5	82.0	23.9
O'S GOLD EXP 25113W	55	90.1	96.7	0.0	0.0	38.3	76.0	17.9
O'S GOLD EXP 25501W	56	109.8	98.9	1.1	0.0	53.9	77.3	20.3
O'S GOLD EXP 25922W	57	103.6	100.0	0.0	2.2	48.7	77.0	18.0
O'S GOLD SX2560W	58	108.0	100.0	1.1	2.2	47.4	76.0	19.1
O'S GOLD SX2680W	59	114.8	98.9	1.1	0.0	50.7	82.3	22.2
P-A-G EXP 106184W	60	105.5	98.9	1.1	2.3	50.0	77.0	20.3

Table 7. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days flwr (no)	Moist (%)
P-A-G 644W	61	106.5	100.0	4.4	0.0	47.4	82.3	21.0
P-A-G SX 70W	62	106.5	102.2	13.7	2.1	48.1	80.3	23.7
PAYMASTER 399W	63	122.5	100.0	2.3	1.1	48.7	81.7	23.7
PAYMASTER 386036W	64	114.1	100.0	0.0	5.6	48.7	81.3	22.2
PAYMASTER UC1800W	65	99.3	100.0	2.2	2.3	46.1	76.7	19.5
PAYMASTER UC2100W	66	121.1	98.9	0.0	0.0	44.2	79.7	24.2
PAYMASTER U398W	67	126.7	103.3	0.0	0.0	44.8	82.0	24.4
PIONEER BRAND 519	68	104.7	100.0	1.1	0.0	48.7	80.7	21.5
PRINCETON SP936	69	119.4	97.8	0.0	0.0	44.8	82.3	23.3
PRINCETON SX910	70	121.2	97.8	1.1	2.3	48.1	81.3	23.3
RING AROUND RA2602W	71	125.5	100.0	3.3	0.0	48.1	82.3	23.3
RING AROUND RA2606W	72	118.9	97.8	0.0	1.1	42.9	79.7	24.7
RING AROUND RA3605W	73	130.9	96.7	0.0	1.2	46.8	81.7	24.4
STURDY GROW EXP 17563	74	116.8	100.0	0.0	0.0	44.8	82.0	23.8
STURDY GROW EXP 21621	75	96.1	100.0	0.0	2.2	40.9	76.0	20.1
STURDY GROW EXP 21637	76	113.5	100.0	0.0	2.2	46.8	81.3	23.7
STURDY GROW EXP 21642	77	112.4	100.0	0.0	2.2	48.7	81.0	22.9
STURDY GROW SG903W	78	90.6	100.0	0.0	0.0	42.9	74.7	17.3
STURDY GROW SG910W	79	94.2	100.0	1.1	1.1	52.6	80.3	20.7
STURDY GROW SG912W	80	107.8	100.0	0.0	2.2	48.1	78.0	18.5
STURDY GROW SG935W	81	122.6	100.0	0.0	1.1	48.7	82.7	23.8
WHISNAND EXP 1W	82	81.7	44.4	3.0	2.2	43.5	76.0	19.3
WHISNAND EXP 7W	83	89.7	91.1	6.5	1.4	46.1	75.7	19.0
WHISNAND EXP 77-2W	84	86.5	90.0	11.0	3.7	44.8	77.3	19.5
WHISNAND EXP 173	85	84.7	95.6	1.1	0.0	42.2	78.0	19.8
WHISNAND 53W	86	89.2	100.0	0.0	0.0	35.7	72.3	18.4
WHISNAND 55W	87	115.2	100.0	0.0	0.0	42.2	75.3	21.6
WHISNAND 57W	88	80.1	100.0	0.0	0.0	41.6	74.7	16.8
WHISNAND 71W	89	88.7	58.9	3.3	0.0	41.6	77.0	20.9
WHISNAND 77W	90	101.7	85.6	10.0	3.9	44.8	77.0	19.3
WHISNAND 91W	91	131.1	100.0	1.1	1.1	48.7	81.3	23.7
WHISNAND 93W	92	127.7	100.0	1.1	0.0	44.8	80.3	24.5
WHITE SEEDS MV48	34	121.2	100.0	0.0	0.0	45.5	81.3	23.3
WHITE SEEDS MV58	35	106.9	96.7	1.1	1.2	51.3	79.7	21.1
WHITE SEEDS MV68	36	115.2	100.0	0.0	0.0	46.1	78.0	20.2
WHITE SEEDS MV78	37	117.7	94.4	2.4	1.2	47.4	82.3	22.7
WHITE SEEDS MV88	38	125.2	100.0	0.0	0.0	48.7	81.7	22.5
ZIMMERMAN Z11W	96	130.3	97.8	0.0	2.2	48.7	81.7	24.5
ZIMMERMAN Z14	97	116.5	100.0	1.1	2.2	45.5	81.7	24.6
ZIMMERMAN Z52W	98	120.4	98.9	1.1	0.0	46.8	82.3	23.4
ZIMMERMAN Z53	99	116.7	100.0	0.0	8.9	45.5	81.7	26.0
ZIMMERMAN Z54	100	105.9	100.0	1.1	1.1	44.8	80.3	22.4
YELLOW CHECK B73 X M017	93	94.3	100.0	0.0	0.0	43.5	74.7	18.2
YELLOW CHECK PIONEER BRAND 3320	94	124.0	100.0	0.0	0.0	42.9	74.0	19.0
YELLOW CHECK US13	95	74.9	97.8	2.3	1.1	40.3	76.0	18.6
Mean		108.6	97.6	1.9	1.5	45.9	79.6	22.1
LSD 0.05		15.8	6.0	6.7	5.7	3.3	1.7	1.1
CV%		8.9	3.7	218.2	228.2	4.4	1.3	3.2

Table 8. Yield and agronomic data from the 1983 National White Maize Variety Trial at Union City, TN.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days flwr (no)	Moist (%)
ASGROW RX813W	1	113.5	100.0	3.2	4.5	.	.	19.3
ASGROW RX962W	2	145.8	100.0	2.6	12.8	.	.	20.6
COKER 833W	3	140.8	100.0	0.0	5.1	.	.	19.3
DEKALB 10080	4	149.1	100.0	3.8	14.1	.	.	19.3
DEKALB EXP 375	5	142.2	100.0	1.3	7.7	.	.	19.9
DEKALB 24126	6	136.7	100.0	2.6	34.6	.	.	19.9
DEKALB 24301	7	134.5	100.0	0.0	4.5	.	.	19.3
DEKALB XL390B	8	140.4	100.0	0.0	20.5	.	.	19.1
FUNK G-4747W-1	9	128.6	100.0	0.0	7.1	.	.	20.1
FUNK G-4768W	10	114.6	100.0	2.6	10.3	.	.	19.9
FUNK G-4779W	11	150.9	100.0	1.3	5.1	.	.	19.1
FUNK G-4787W	12	136.1	100.0	1.9	5.1	.	.	20.1
GOLDEN HARVEST H-2644W	13	85.3	100.0	0.0	11.5	.	.	19.8
GOLDEN HARVEST H-2660W	14	119.0	100.0	0.0	7.1	.	.	20.1
IFSI 74-3	15	133.5	100.0	1.3	5.8	.	.	20.0
IFSI 77-1	16	137.1	100.0	2.6	7.1	.	.	20.8
IFSI 80-4	17	147.9	100.0	0.0	3.8	.	.	20.5
IFSI 80-6	18	135.1	100.0	3.2	5.1	.	.	19.2
IFSI 80-8	19	141.8	100.0	0.0	14.1	.	.	21.1
IFSI 81-3	20	141.5	100.0	0.0	19.2	.	.	20.3
IFSI 81-5	21	147.5	100.0	1.3	10.3	.	.	19.3
IFSI 82-2	22	150.6	100.0	1.9	5.8	.	.	20.3
IFSI 82-4	23	149.7	100.0	3.2	10.3	.	.	19.9
IFSI 83-1	24	153.5	100.0	0.0	13.5	.	.	19.7
IFSI 83-2	25	141.9	100.0	0.0	9.0	.	.	19.0
IFSI 83-3	26	114.8	100.0	1.9	2.6	.	.	19.3
IFSI 83-4	27	145.5	100.0	1.3	16.7	.	.	18.5
IFSI 83-5	28	147.1	100.0	0.0	5.1	.	.	19.6
JACQUES EXP W83110	29	137.4	100.0	0.0	7.1	.	.	19.3
JACQUES EXP W83115	30	138.2	100.0	2.6	14.1	.	.	19.9
JACQUES W190	31	119.5	100.0	0.6	6.4	.	.	18.2
JACQUES W200	32	97.9	100.0	1.3	9.6	.	.	18.9
JACQUES W300	33	147.4	100.0	0.6	5.1	.	.	20.0
MEACHAM'S MX50W	39	120.9	100.0	3.8	14.7	.	.	19.3
MO EXP 83-1	40	107.7	100.0	0.0	12.2	.	.	19.3
MO EXP 83-2	41	135.0	100.0	1.3	4.5	.	.	19.0
MO EXP 83-3	42	119.5	100.0	0.0	7.1	.	.	19.0
MO EXP 83-4	43	121.2	100.0	1.3	5.1	.	.	18.9
MO EXP 83-5	44	111.9	100.0	0.0	19.2	.	.	19.9
MO EXP 83-6	45	128.9	100.0	0.0	5.1	.	.	19.2
MO EXP 83-7	46	132.3	100.0	0.6	1.9	.	.	18.5
MO EXP 83-8	47	113.0	100.0	0.0	5.1	.	.	19.3
MO EXP 83-9	48	123.8	100.0	1.3	4.5	.	.	20.5
MO EXP 83-10	49	117.6	100.0	1.9	4.5	.	.	19.1
MO EXP 83-11	50	148.9	100.0	0.0	5.8	.	.	20.0
MO EXP 83-12	51	161.3	100.0	1.3	9.0	.	.	19.4
MO EXP 83-13	52	136.6	100.0	0.0	8.3	.	.	19.7
NC+ 6708W	53	149.4	100.0	1.3	5.1	.	.	17.7
NC+ 8707W	54	153.7	100.0	2.6	7.1	.	.	20.2
O'S GOLD EXP 25113W	55	123.8	100.0	1.3	10.3	.	.	19.3
O'S GOLD EXP 25501W	56	159.1	100.0	1.3	5.1	.	.	19.1
O'S GOLD EXP 25922W	57	129.3	100.0	0.0	9.6	.	.	19.2
O'S GOLD SX2560W	58	109.7	100.0	0.0	12.8	.	.	18.5
O'S GOLD SX2680W	59	131.2	100.0	5.1	11.5	.	.	19.9
P-A-G EXP 106184W	60	144.3	100.0	0.0	8.3	.	.	18.5

Table 8. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days flwr (no)	Moist (%)
P-A-G 644W	61	99.1	100.0	0.0	2.6	.	.	19.3
P-A-G SX 70W	62	137.2	100.0	0.0	13.5	.	.	20.1
PAYMASTER 399W	63	144.3	100.0	0.0	6.4	.	.	20.3
PAYMASTER 386036W	64	141.7	100.0	2.6	20.5	.	.	19.9
PAYMASTER UC1800W	65	105.7	100.0	2.6	8.3	.	.	18.9
PAYMASTER UC2100W	66	116.7	100.0	2.6	2.6	.	.	20.2
PAYMASTER U398W	67	147.0	100.0	1.3	7.7	.	.	19.5
PIONEER BRAND 519	68	147.4	100.0	0.6	9.0	.	.	19.4
PRINCETON SP936	69	160.0	100.0	1.9	9.0	.	.	20.1
PRINCETON SX910	70	132.4	100.0	5.1	1.9	.	.	20.6
RING AROUND RA2602W	71	138.0	100.0	1.9	14.1	.	.	20.1
RING AROUND RA2606W	72	141.3	100.0	1.3	4.5	.	.	20.2
RING AROUND RA3605W	73	149.4	100.0	1.9	9.6	.	.	20.3
STURDY GROW EXP 17563	74	169.7	100.0	2.6	1.9	.	.	19.5
STURDY GROW EXP 21621	75	123.9	100.0	1.3	5.8	.	.	19.7
STURDY GROW EXP 21637	76	127.6	100.0	1.9	9.0	.	.	19.5
STURDY GROW EXP 21642	77	148.2	100.0	0.6	5.1	.	.	19.6
STURDY GROW SG903W	78	118.5	100.0	0.6	6.4	.	.	19.3
STURDY GROW SG910W	79	164.3	100.0	1.9	4.5	.	.	18.9
STURDY GROW SG912W	80	129.1	100.0	1.3	4.5	.	.	18.7
STURDY GROW SG935W	81	133.5	100.0	0.0	10.9	.	.	19.2
WHISNAND EXP 1W	82	57.9	100.0	0.0	1.3	.	.	18.3
WHISNAND EXP 7W	83	120.6	100.0	0.0	3.2	.	.	18.6
WHISNAND EXP 77-2W	84	83.5	100.0	0.6	1.9	.	.	18.6
WHISNAND EXP 173	85	148.6	100.0	0.6	5.1	.	.	18.0
WHISNAND 53W	86	110.0	100.0	2.6	14.1	.	.	19.0
WHISNAND 55W	87	133.7	100.0	0.0	12.2	.	.	20.1
WHISNAND 57W	88	117.6	100.0	0.0	12.8	.	.	18.4
WHISNAND 71W	89	46.9	100.0	0.0	3.2	.	.	18.4
WHISNAND 77W	90	92.4	100.0	3.8	1.9	.	.	18.7
WHISNAND 91W	91	148.5	100.0	0.6	5.1	.	.	20.5
WHISNAND 93W	92	137.7	100.0	2.6	4.5	.	.	20.2
WHITE SEEDS MV48	34	167.0	100.0	0.0	3.8	.	.	19.9
WHITE SEEDS MV58	35	158.3	100.0	0.6	3.2	.	.	19.0
WHITE SEEDS MV68	36	130.8	100.0	3.2	12.2	.	.	19.3
WHITE SEEDS MV78	37	133.0	100.0	1.3	10.3	.	.	19.7
WHITE SEEDS MV88	38	151.2	100.0	4.5	10.9	.	.	19.9
ZIMMERMAN Z11W	96	151.6	100.0	1.9	7.1	.	.	20.5
ZIMMERMAN Z14	97	143.4	100.0	0.6	3.2	.	.	19.9
ZIMMERMAN Z52W	98	142.4	100.0	1.3	13.5	.	.	19.8
ZIMMERMAN Z53	99	145.8	100.0	3.2	7.7	.	.	19.7
ZIMMERMAN Z54	100	156.3	100.0	1.3	3.8	.	.	19.5
YELLOW CHECK B73 X MO17	93	145.4	100.0	0.0	4.5	.	.	18.1
YELLOW CHECK PIONEER BRAND 3320	94	155.1	100.0	3.2	4.5	.	.	18.8
YELLOW CHECK US13	95	102.0	100.0	0.6	23.1	.	.	19.8
Mean		133.0	100.0	1.3	8.3	.	.	19.5
LSD 0.05		24.2	NS	NS	9.7	.	.	0.7
CV%		11.1			71.4	.	.	2.3

Table 9. Yield and agronomic data from the 1983 National White Maize Variety Trial at Halfway, TX.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days flwr (no)	Moist [†] (%)
ASGROW RX813W	1	146.9	87.5	0.0	4.6	38.0	81.7	17.2
ASGROW RX962W	2	144.8	101.4	0.0	43.4	45.3	89.0	18.1
COKER 833W	3	112.4	98.6	3.5	26.9	41.0	86.7	20.1
DEKALB 10080	4	149.3	101.4	0.0	35.7	44.3	86.3	18.2
DEKALB EXP 375	5	184.1	102.8	2.8	28.6	44.0	87.7	17.5
DEKALB 24126	6	148.4	97.2	15.0	30.5	48.7	91.3	19.6
DEKALB 24301	7	164.7	81.9	10.9	18.6	43.3	82.7	19.1
DEKALB XL390B	8	104.3	91.7	5.1	17.6	42.0	86.7	17.0
FUNK G-4747W-1	9	160.9	87.5	0.0	19.5	41.3	88.3	17.3
FUNK G-4768W	10	132.6	105.6	3.3	45.0	45.0	88.7	30.0
FUNK G-4779W	11	159.7	84.7	0.0	19.2	43.7	88.0	18.4
FUNK G-4787W	12	139.7	91.7	0.0	22.4	45.0	90.0	21.2
GOLDEN HARVEST H-2644W	13	94.5	94.4	0.0	17.5	41.7	80.7	14.5
GOLDEN HARVEST H-2660W	14	161.4	90.3	3.0	30.3	44.0	89.0	18.0
IFSI 74-3	15	156.3	111.1	1.1	33.3	41.7	84.0	20.3
IFSI 77-1	16	144.8	91.7	6.1	17.1	44.0	86.0	22.6
IFSI 80-4	17	138.6	87.5	5.6	22.2	43.0	83.7	20.8
IFSI 80-6	18	156.3	90.3	0.0	27.3	42.7	83.7	20.3
IFSI 80-8	19	187.3	113.9	0.0	33.4	42.7	86.3	18.4
IFSI 81-3	20	133.7	79.2	0.0	15.6	45.3	87.3	24.7
IFSI 81-5	21	147.1	101.4	1.7	82.8	42.0	83.3	14.1
IFSI 82-2	22	162.6	95.8	2.7	6.4	45.7	93.7	21.3
IFSI 82-4	23	149.1	97.2	1.3	15.0	45.7	85.3	20.5
IFSI 83-1	24	160.5	104.2	0.0	14.5	45.0	83.3	15.8
IFSI 83-2	25	196.8	104.2	0.0	6.7	41.0	84.7	16.9
IFSI 83-3	26	135.7	79.2	2.1	3.7	39.7	83.0	23.0
IFSI 83-4	27	135.7	116.7	1.1	14.3	41.7	85.0	20.3
IFSI 83-5	28	166.2	98.6	0.0	8.7	44.7	85.7	20.1
JACQUES EXP W83110	29	146.2	93.1	0.0	4.3	40.0	83.0	14.2
JACQUES EXP W83115	30	145.8	90.3	0.0	10.2	41.3	85.0	23.3
JACQUES W190	31	70.0	100.0	2.7	15.5	39.0	83.3	15.9
JACQUES W200	32	118.3	93.1	1.9	17.0	41.7	80.0	16.2
JACQUES W300	33	160.5	91.7	1.4	30.2	42.3	87.7	18.9
MEACHAM'S MX50W	39	104.2	100.0	2.3	42.1	41.3	86.7	18.3
MO EXP 83-1	40	132.9	88.9	0.0	25.3	42.7	88.0	21.2
MO EXP 83-2	41	140.9	91.7	0.0	27.1	42.7	84.3	18.0
MO EXP 83-3	42	107.4	97.2	3.0	18.5	43.3	87.0	20.3
MO EXP 83-4	43	93.7	91.7	0.0	9.9	42.0	87.3	27.0
MO EXP 83-5	44	131.4	93.1	0.0	16.2	40.7	88.0	18.4
MO EXP 83-6	45	163.4	79.2	0.0	15.3	41.7	85.0	21.7
MO EXP 83-7	46	121.4	86.1	0.0	14.3	41.0	82.0	16.3
MO EXP 83-8	47	115.7	88.9	1.6	14.3	40.7	82.7	29.6
MO EXP 83-9	48	124.7	87.5	3.3	9.4	40.3	82.7	20.1
MO EXP 83-10	49	119.3	86.1	0.0	6.1	40.3	86.3	21.1
MO EXP 83-11	50	131.2	109.7	0.0	27.8	42.7	88.0	23.8
MO EXP 83-12	51	143.3	100.0	0.0	28.3	47.0	83.3	17.3
MO EXP 83-13	52	129.5	98.6	0.0	24.7	46.0	90.7	20.3
NC+ 6708W	53	143.7	93.1	0.0	13.3	40.3	86.0	17.6
NC+ 8707W	54	138.6	97.2	1.4	27.7	45.3	89.3	18.2
O'S GOLD EXP 25113W	55	103.6	105.6	1.4	5.4	40.0	85.3	18.2
O'S GOLD EXP 25501W	56	195.4	93.1	0.0	16.5	44.3	85.7	17.0
O'S GOLD EXP 25922W	57	135.6	109.7	2.1	20.2	42.7	84.7	16.8
O'S GOLD SX2560W	58	136.8	101.4	0.0	20.7	45.3	83.7	18.6
O'S GOLD SX2680W	59	134.5	65.3	0.0	7.6	41.0	88.7	21.7
P-A-G EXP 106184W	60	134.9	100.0	0.0	26.0	40.0	85.7	17.8

Table 9. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days flwr (no)	Moist [†] (%)
P-A-G 644W	61	152.1	98.6	0.0	40.2	43.0	88.3	17.8
P-A-G SX 70W	62	125.9	90.3	0.0	22.9	43.7	84.0	19.7
PAYMASTER 399W	63	148.4	100.0	0.0	27.4	42.7	89.0	16.5
PAYMASTER 386036W	64	143.8	98.6	0.0	36.0	44.0	89.0	17.8
PAYMASTER UC1800W	65	109.2	88.9	8.7	19.3	42.7	82.0	18.2
PAYMASTER UC2100W	66	148.1	97.2	5.3	9.6	41.7	86.0	21.5
PAYMASTER U398W	67	130.9	88.9	3.5	31.4	43.0	88.0	19.7
PIONEER BRAND 519	68	153.0	94.4	1.3	7.0	44.0	89.3	19.0
PRINCETON SP936	69	136.0	86.1	0.0	32.2	44.7	89.0	21.9
PRINCETON SX910	70	121.5	98.6	1.3	21.8	45.7	88.0	21.2
RING AROUND RA2602W	71	177.4	101.4	1.4	16.5	48.3	87.7	20.0
RING AROUND RA2606W	72	174.3	90.3	0.0	26.4	42.0	83.7	21.1
RING AROUND RA3605W	73	179.6	109.7	0.0	18.9	42.3	88.0	17.8
STURDY GROW EXP 17563	74	184.2	112.5	0.0	5.0	43.7	88.0	22.2
STURDY GROW EXP 21621	75	129.7	102.8	2.8	15.7	41.3	81.0	18.2
STURDY GROW EXP 21637	76	165.1	101.4	0.0	14.2	42.7	85.3	19.4
STURDY GROW EXP 21642	77	170.8	104.2	0.0	25.6	45.0	85.0	18.7
STURDY GROW SG903W	78	98.3	91.7	0.0	18.5	41.3	85.3	21.6
STURDY GROW SG910W	79	120.6	100.0	1.4	5.7	48.0	86.7	23.1
STURDY GROW SG912W	80	136.4	104.2	0.0	14.0	44.7	82.7	17.2
STURDY GROW SG935W	81	170.8	102.8	1.5	35.5	42.3	89.0	17.7
WHISNAND EXP 1W	82	116.4	80.6	8.3	14.7	38.7	83.3	18.3
WHISNAND EXP 7W	83	108.6	90.3	2.9	37.2	36.0	85.3	16.0
WHISNAND EXP 77-2W	84	141.3	90.3	0.0	28.8	35.3	80.0	14.5
WHISNAND EXP 173	85	151.1	93.1	14.1	16.4	39.3	82.7	19.8
WHISNAND 53W	86	103.0	105.6	0.0	36.3	36.7	80.3	27.4
WHISNAND 55W	87	165.4	87.5	0.0	41.2	41.0	81.7	16.4
WHISNAND 57W	88	123.8	116.7	0.0	20.9	38.0	82.7	12.3
WHISNAND 71W	89	107.9	81.9	1.7	13.3	38.7	83.0	17.5
WHISNAND 77W	90	130.1	97.2	0.0	31.3	42.3	84.7	17.7
WHISNAND 91W	91	158.5	109.7	2.6	42.1	43.3	88.3	17.7
WHISNAND 93W	92	146.8	91.7	0.0	38.2	44.7	84.0	21.1
WHITE SEEDS MV48	34	149.7	105.6	0.0	27.8	41.7	89.3	22.9
WHITE SEEDS MV58	35	158.9	108.3	0.0	19.0	42.7	86.0	18.5
WHITE SEEDS MV68	36	91.7	100.0	3.7	37.3	44.3	84.7	23.1
WHITE SEEDS MV78	37	131.0	79.2	0.0	42.2	45.7	88.0	23.9
WHITE SEEDS MV88	38	158.2	108.3	0.0	22.7	43.3	88.7	21.8
ZIMMERMAN Z11W	96	131.2	90.3	3.1	27.2	45.3	90.0	22.9
ZIMMERMAN Z14	97	149.1	112.5	2.3	24.2	45.7	86.3	15.4
ZIMMERMAN Z52W	98	136.4	101.4	0.0	25.0	43.3	88.7	18.6
ZIMMERMAN Z53	99	104.6	104.2	0.0	29.4	41.7	87.0	26.6
ZIMMERMAN Z54	100	148.3	104.2	0.0	14.9	44.3	86.7	20.3
YELLOW CHECK B73 X M017	93	135.6	72.2	0.0	15.6	42.3	81.0	16.2
YELLOW CHECK PIONEER BRAND 3320	94	141.2	95.8	0.0	8.9	39.7	83.7	15.1
YELLOW CHECK US13	95	126.8	101.4	0.0	42.2	41.7	81.7	14.2
Mean		139.9	96.1	1.5	22.6	42.6	85.7	19.4
LSD 0.05		36.0	NS	NS	NS	4.8	3.2	+
CV%		15.7				6.9	2.3	

[†] Moisture and shelling percentages were measured in one replication. Values were used to convert ear weights to shelled ear weights adjusted to 15.5% moisture in all replications.

Table 10. Combined yield and agronomic data from the 1983 National White Maize Variety Trial.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days flwr (no)	Molst (%)	b ₁ (bu/a/l)	Std devn (bu/a)
ASGROW RX813W	1	81.9	79.2	6.7	7.0	40.4	76.7	20.2	1.20	15.4
ASGROW RX962W	2	93.1	89.7	16.2	12.8	47.4	82.9	22.0	1.32	15.3
COKER 833W	3	97.5	87.8	4.5	7.9	41.4	81.3	22.4	0.99	23.8
DEKALB 10080	4	108.6	84.0	13.1	12.2	49.4	80.9	20.6	1.00	9.8
DEKALB EXP 375	5	106.1	89.5	14.6	10.0	46.5	82.2	20.7	1.31	12.5
DEKALB 24126	6	92.2	86.5	18.3	21.9	50.5	86.8	22.8	1.24	9.6
DEKALB 24301	7	116.4	83.0	13.7	7.0	44.6	77.7	19.5	0.84	12.6
DEKALB XL390B	8	88.1	79.2	10.2	9.8	46.1	81.5	20.0	0.94	16.8
FUNK G-4747W-1	9	94.5	86.2	10.5	10.8	44.8	82.7	21.2	1.25	10.2
FUNK G-4768W	10	89.5	89.1	17.1	12.5	48.1	82.3	24.3	0.94	15.6
FUNK G-4779W	11	100.4	86.1	10.6	10.3	47.3	82.6	21.5	1.36	7.5
FUNK G-4787W	12	88.7	84.3	14.1	6.8	47.5	85.2	23.1	1.29	15.1
GOLDEN HARVEST H-2644W	13	64.2	86.0	4.2	9.6	39.9	75.1	18.1	0.64	13.0
GOLDEN HARVEST H-2660W	14	85.2	89.0	14.1	11.1	45.2	82.6	21.6	1.33	15.4
IFSI 74-3	15	95.7	87.4	11.2	10.9	47.0	81.4	21.6	1.20	5.7
IFSI 77-1	16	94.1	81.9	16.0	10.0	47.2	82.2	23.2	1.19	10.7
IFSI 80-4	17	110.4	86.6	12.1	8.2	44.9	79.7	22.1	0.93	14.1
IFSI 80-6	18	103.8	87.6	9.5	11.2	46.3	79.4	21.3	1.00	11.4
IFSI 80-8	19	111.1	91.7	13.9	15.0	46.1	81.7	23.0	1.21	12.8
IFSI 81-3	20	109.0	85.9	7.3	12.4	49.6	80.4	23.0	0.77	14.9
IFSI 81-5	21	105.1	91.6	4.5	20.9	45.6	79.6	18.6	0.94	8.5
IFSI 82-2	22	108.6	89.4	4.1	5.0	45.1	82.7	21.8	1.02	11.3
IFSI 82-4	23	105.3	84.5	7.1	9.4	46.2	81.5	22.7	1.00	7.9
IFSI 83-1	24	115.3	90.5	4.3	11.3	45.3	79.3	21.0	0.94	15.4
IFSI 83-2	25	107.4	87.7	3.6	5.9	45.1	81.7	22.0	1.30	19.6
IFSI 83-3	26	91.4	70.9	6.7	4.3	42.5	80.1	23.0	0.98	7.5
IFSI 83-4	27	102.2	92.7	2.5	9.2	44.9	80.4	21.5	0.86	8.6
IFSI 83-5	28	106.6	84.5	7.9	4.8	44.1	80.9	21.4	1.07	10.3
JACQUES EXP W83110	29	102.1	91.1	3.6	8.0	45.4	79.7	18.1	1.06	6.8
JACQUES EXP W83115	30	101.3	87.6	10.2	12.9	46.7	80.1	22.7	1.03	8.6
JACQUES W190	31	74.2	91.4	2.8	12.4	41.4	77.5	17.3	0.60	22.2
JACQUES W200	32	67.4	86.5	13.0	10.3	45.3	76.0	17.9	0.92	12.3
JACQUES W300	33	97.4	85.3	16.1	11.4	46.6	82.7	21.9	1.33	4.8
MEACHAM'S MX50W	39	90.4	87.2	12.3	22.5	41.7	81.6	20.8	0.67	11.4
MO EXP 83-1	40	90.6	85.5	9.5	10.2	49.1	83.1	19.9	0.87	9.3

MO EXP 83-2	41	87.5	86.3	8.7	9.2	45.2	81.5	21.1	1.25	5.7
MO EXP 83-3	42	88.6	84.8	11.2	9.0	46.9	82.4	20.2	0.73	9.0
MO EXP 83-4	43	74.3	86.8	5.6	5.4	42.4	83.1	22.6	0.80	19.0
MO EXP 83-5	44	89.7	87.5	9.9	9.8	46.3	82.4	19.8	0.84	9.7
MO EXP 83-6	45	99.0	86.7	13.3	5.4	44.2	81.4	22.1	1.20	12.0
MO EXP 83-7	46	91.5	80.0	3.6	7.7	45.1	77.5	17.9	0.88	9.7
MO EXP 83-8	47	89.7	83.7	3.7	7.3	45.2	81.0	22.3	0.58	7.4
MO EXP 83-9	48	88.7	86.7	14.6	5.0	38.6	78.6	21.1	0.85	5.9
MO EXP 83-10	49	82.0	71.7	5.3	5.2	45.1	80.7	21.0	0.94	9.2
MO EXP 83-11	50	98.5	89.5	15.6	10.1	45.4	82.7	22.4	0.97	11.3
MO EXP 83-12	51	107.9	88.1	11.2	13.4	49.7	81.9	20.3	1.08	12.8
MO EXP 83-13	52	92.8	90.8	12.1	10.4	47.6	84.3	22.1	1.12	9.1
NC+ 6708W	53	101.3	85.8	7.4	3.3	44.0	80.8	18.9	0.98	12.7
NC+ 8707W	54	102.6	92.9	13.7	14.9	47.0	83.0	22.2	1.08	10.3
O'S GOLD EXP 25113W	55	86.2	90.5	5.9	7.9	41.1	78.4	18.2	0.60	10.5
O'S GOLD EXP 25501W	56	108.8	90.2	9.1	8.2	49.2	80.2	19.9	1.45	17.3
O'S GOLD EXP 25922W	57	93.3	90.4	4.1	12.4	46.7	79.0	18.7	0.98	5.7
O'S GOLD SX2560W	58	88.9	92.9	6.6	17.6	47.6	78.6	18.7	0.94	8.2
O'S GOLD SX2680W	59	97.2	85.0	13.8	9.4	48.1	82.7	21.8	0.97	10.2
P-A-G EXP 106184W	60	96.2	90.5	9.4	13.4	45.8	80.1	19.8	1.00	6.5
P-A-G 644W	61	86.9	87.0	11.1	16.1	46.4	83.4	20.3	1.02	15.5
P-A-G SX 70W	62	96.7	90.7	10.6	15.4	45.3	80.7	21.7	0.88	7.8
PAYMASTER 399W	63	99.6	89.3	15.6	12.5	50.8	82.5	21.8	1.21	4.8
PAYMASTER 386036W	64	99.0	91.7	15.2	14.8	46.1	82.3	21.3	1.06	5.9
PAYMASTER UC1800W	65	83.7	86.7	5.3	16.2	46.3	78.7	19.2	0.70	6.2
PAYMASTER UC2100W	66	94.5	91.8	12.0	6.5	44.4	81.0	23.5	1.02	10.3
PAYMASTER U398W	67	95.5	87.1	11.2	13.4	45.7	82.7	21.8	1.08	15.7
PIONEER BRAND 519	68	104.5	89.0	12.2	9.4	46.9	82.3	19.3	1.10	9.5
PRINCETON SP936	69	104.8	80.3	16.4	14.2	47.2	82.7	22.2	1.11	13.8
PRINCETON SX910	70	92.2	81.0	18.4	7.4	47.1	82.7	22.5	1.03	10.9
RING AROUND RA2602W	71	96.5	93.0	16.0	12.3	48.0	82.8	22.6	1.47	13.4
RING AROUND RA2606W	72	111.2	90.3	9.6	10.1	43.9	80.5	22.7	1.13	12.9
RING AROUND RA3605W	73	101.4	89.7	16.5	9.4	46.2	82.4	21.6	1.47	12.5
STURDY GROW EXP 17563	74	111.3	94.1	10.2	2.3	45.3	82.8	22.4	1.39	13.7
STURDY GROW EXP 21621	75	95.5	90.6	5.0	7.2	42.4	77.7	19.6	0.74	6.9
STURDY GROW EXP 21637	76	106.6	88.6	6.5	8.9	47.2	81.0	21.0	0.97	13.8
STURDY GROW EXP 21642	77	106.4	88.8	6.9	8.7	48.1	81.1	20.9	1.16	9.9
STURDY GROW SG903W	78	83.8	89.9	3.8	8.7	41.9	78.6	18.6	0.73	15.4
STURDY GROW SG910W	79	92.2	92.3	6.0	4.8	49.8	80.8	20.8	1.06	18.9
STURDY GROW SG912W	80	97.3	89.3	4.8	9.4	48.0	78.9	18.5	0.80	11.6

Table 10. Continued.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Ear height (in)	Days flwr (no)	Moist (%)	b ₁ (bu/a/l)	Std devn (bu/a)
STURDY GROW SG935W	81	101.8	84.9	8.3	13.4	47.5	83.7	21.5	1.26	10.2
WHISNAND EXP 1W	82	75.8	54.7	12.4	9.6	44.1	78.3	19.6	0.58	25.0
WHISNAND EXP 7W	83	88.6	72.2	10.6	10.9	43.4	77.9	18.1	0.72	10.6
WHISNAND EXP 77-2W	84	84.9	71.0	10.0	13.2	42.5	78.0	17.9	0.69	17.5
WHISNAND EXP 173	85	101.6	84.7	8.4	4.5	42.4	79.2	19.4	1.08	16.5
WHISNAND 53W	86	88.2	88.8	5.3	15.4	36.7	74.5	19.4	0.50	11.8
WHISNAND 55W	87	107.8	90.4	12.3	17.4	42.5	77.0	20.3	1.08	11.3
WHISNAND 57W	88	80.1	93.3	3.0	10.5	41.3	77.6	17.4	0.86	9.3
WHISNAND 71W	89	70.8	55.1	7.2	9.4	41.3	78.4	19.3	0.45	22.5
WHISNAND 77W	90	86.8	72.2	14.5	12.1	44.9	79.1	18.6	0.84	18.0
WHISNAND 91W	91	99.7	90.3	18.4	14.0	46.7	82.4	22.3	1.31	10.6
WHISNAND 93W	92	112.2	92.4	8.4	10.2	44.6	80.2	22.8	0.79	8.2
WHITE SEEDS MV48	34	109.8	91.1	10.9	7.6	45.5	83.1	22.4	1.11	9.8
WHITE SEEDS MV58	35	100.6	91.9	6.9	6.6	46.7	80.7	20.1	1.20	15.7
WHITE SEEDS MV68	36	90.9	91.0	6.4	13.7	45.3	79.4	19.6	0.62	16.5
WHITE SEEDS MV78	37	96.4	82.1	11.0	15.6	47.7	82.4	22.2	0.99	8.8
WHITE SEEDS MV88	38	104.9	87.3	11.4	11.5	47.8	83.1	21.8	1.17	7.7
ZIMMERMAN Z11W	96	96.9	91.6	13.4	11.1	47.4	83.1	22.9	1.16	15.2
ZIMMERMAN Z14	97	100.2	94.9	9.0	9.2	46.2	81.7	21.2	1.12	19.6
ZIMMERMAN Z52W	98	94.6	92.7	12.1	13.1	45.6	83.2	22.3	1.14	8.5
ZIMMERMAN Z53	99	93.4	89.9	6.6	10.7	45.3	82.3	24.1	0.88	17.2
ZIMMERMAN Z54	100	98.7	90.4	7.3	7.8	45.3	80.7	21.4	1.20	11.4
YELLOW CHECK B73 X M017	93	104.8	84.4	4.2	6.9	42.9	77.1	17.8	0.76	13.1
YELLOW CHECK PIONEER BRAND 3320	94	118.0	86.7	9.5	5.3	42.7	78.1	18.0	0.78	22.0
YELLOW CHECK US13	95	78.8	81.3	8.2	22.8	44.4	78.2	17.8	0.85	12.8
Mean		96.1	86.5	9.8	10.5	45.4	80.8	20.8	1.00	12.1
LSD 0.05		15.1	7.2	8.6	6.7	3.8	1.8	1.6	0.18	.
CV%		16.1	9.6	92.1	90.0	6.8	1.8	5.9	.	.
Lafayette, IN		68.2	96.0	3.3	1.3	47.8	.	23.4	.	.
Highland, KS		43.4	66.8	26.2	12.3	.	.	22.5	.	.
Manhattan, KS		84.7	75.3	32.8	10.0	.	80.8	17.8	.	.
Rossville, KS		94.8	74.0	1.7	17.6	.	77.0	21.2	.	.
Knoxville, TN		108.6	97.6	1.9	1.5	45.9	79.6	22.1	.	.
Union City, TN		133.0	100.0	1.3	8.3	.	.	19.5	.	.
Halfway, TX		139.9	96.1	1.5	22.6	42.6	85.7	19.4	.	.

Table 11. Virus data from the 1983 National White Maize Variety Trial at Waverly, TN

Entry	No.	Stand (%)	Plants Inftd. (%)	Virus sevr. (1-9)	Avg. virus (1-9)	.	.	.
ASGROW RX813W	1	74.0	87.1	3.7	3.3	.	.	.
ASGROW RX962W	2	81.2	94.2	3.8	3.7	.	.	.
COKER 833W	3	86.5	97.4	3.8	3.7	.	.	.
DEKALB 10080	4	80.2	78.0	4.3	3.6	.	.	.
DEKALB EXP 375	5	86.5	97.0	4.0	3.9	.	.	.
DEKALB 24126	6	80.2	93.0	3.7	3.5	.	.	.
DEKALB 24301	7	79.2	84.2	4.3	3.8	.	.	.
DEKALB XL3908	8	81.2	89.8	3.7	3.4	.	.	.
FUNK G-4747W-1	9	91.7	97.8	4.4	4.3	.	.	.
FUNK G-4768W	10	85.4	96.2	4.7	4.6	.	.	.
FUNK G-4779W	11	92.7	87.7	3.6	3.3	.	.	.
FUNK G-4787W	12	84.4	90.3	3.5	3.2	.	.	.
GOLDEN HARVEST H-2644W	13	80.2	95.9	4.8	4.7	.	.	.
GOLDEN HARVEST H-2660W	14	75.0	92.4	4.2	4.0	.	.	.
IFSI 74-3	15	78.1	85.8	4.3	3.8	.	.	.
IFSI 77-1	16	76.0	98.5	3.9	3.9	.	.	.
IFSI 80-4	17	80.2	100.0	4.1	4.1	.	.	.
IFSI 80-6	18	72.9	71.2	3.7	2.9	.	.	.
IFSI 80-8	19	86.5	92.0	4.7	4.3	.	.	.
IFSI 81-3	20	78.1	77.2	3.9	3.2	.	.	.
IFSI 81-5	21	93.7	93.8	3.7	3.4	.	.	.
IFSI 82-2	22	86.5	93.8	4.6	4.5	.	.	.
IFSI 82-4	23	80.2	71.1	4.3	3.4	.	.	.
IFSI 83-1	24	80.2	75.2	3.3	2.8	.	.	.
IFSI 83-2	25	61.5	68.3	5.6	4.2	.	.	.
IFSI 83-3	26	66.7	84.9	5.0	4.4	.	.	.
IFSI 83-4	27	76.0	68.7	5.0	3.7	.	.	.
IFSI 83-5	28	76.0	78.7	4.2	3.5	.	.	.
JACQUES EXP W83110	29	79.2	75.2	3.6	3.0	.	.	.
JACQUES EXP W83115	30	83.3	64.2	3.5	2.6	.	.	.
JACQUES W190	31	85.4	92.0	3.6	3.4	.	.	.
JACQUES W200	32	80.2	88.1	4.5	4.1	.	.	.
JACQUES W300	33	70.8	89.9	4.0	3.7	.	.	.
MEACHAM'S MX50W	39	70.8	98.5	4.4	4.4	.	.	.
MO EXP 83-1	40	84.4	92.7	5.0	4.7	.	.	.
MO EXP 83-2	41	78.1	94.7	4.7	4.5	.	.	.
MO EXP 83-3	42	81.2	93.7	4.1	3.9	.	.	.
MO EXP 83-4	43	76.0	90.1	4.6	4.3	.	.	.
MO EXP 83-5	44	83.3	93.9	4.5	4.3	.	.	.
MO EXP 83-6	45	76.0	97.3	4.3	4.3	.	.	.
MO EXP 83-7	46	24.0	93.9	3.8	3.6	.	.	.
MO EXP 83-8	47	76.0	85.1	3.6	3.3	.	.	.
MO EXP 83-9	48	60.4	76.4	3.3	2.8	.	.	.
MO EXP 83-10	49	20.8	100.0	5.1	5.1	.	.	.
MO EXP 83-11	50	85.4	95.8	4.6	4.4	.	.	.
MO EXP 83-12	51	85.4	92.4	4.8	4.5	.	.	.
MO EXP 83-13	52	87.5	96.6	4.5	4.4	.	.	.
NC+ 6708W	53	72.9	91.1	3.8	3.5	.	.	.
NC+ 8707W	54	82.3	96.8	3.5	3.4	.	.	.
O'S GOLD EXP 25113W	55	82.3	97.1	3.9	3.8	.	.	.
O'S GOLD EXP 25501W	56	83.3	72.6	4.1	3.3	.	.	.
O'S GOLD EXP 25922W	57	77.1	80.3	4.8	4.1	.	.	.
O'S GOLD SX2560W	58	79.2	88.1	3.6	3.3	.	.	.
O'S GOLD SX2680W	59	82.3	84.9	4.0	3.6	.	.	.
P-A-G EXP 106184W	60	90.6	92.9	3.8	3.6	.	.	.

Table 11. Continued.

Entry	No.	Stand (%)	Plants Inftd. (%)	Virus sevr. (1-9)	Avg. virus (1-9)	.	.	.
P-A-G 644W	61	83.3	95.1	4.7	4.4	.	.	.
P-A-G SX 70W	62	84.4	100.0	5.1	5.1	.	.	.
PAYMASTER 399W	63	85.4	96.0	3.9	3.8	.	.	.
PAYMASTER 386036W	64	79.2	67.5	3.4	2.6	.	.	.
PAYMASTER UC1800W	65	78.1	91.6	4.4	4.2	.	.	.
PAYMASTER UC2100W	66	78.1	97.6	4.4	4.3	.	.	.
PAYMASTER U398W	67	80.2	84.4	3.8	3.4	.	.	.
PIONEER BRAND 519	68	84.4	80.2	4.0	3.6	.	.	.
PRINCETON SP936	69	76.0	90.4	3.8	3.5	.	.	.
PRINCETON SX910	70	75.0	97.1	4.0	3.9	.	.	.
RING AROUND RA2602W	71	85.4	95.1	4.1	3.9	.	.	.
RING AROUND RA2606W	72	78.1	97.3	4.5	4.4	.	.	.
RING AROUND RA3605W	73	76.0	88.8	3.8	3.5	.	.	.
STURDY GROW EXP 17563	74	92.7	92.2	4.2	4.0	.	.	.
STURDY GROW EXP 21621	75	82.3	86.9	4.9	4.4	.	.	.
STURDY GROW EXP 21637	76	84.4	76.2	4.0	3.4	.	.	.
STURDY GROW EXP 21642	77	91.7	77.3	3.9	3.2	.	.	.
STURDY GROW SG903W	78	86.5	92.6	4.3	4.1	.	.	.
STURDY GROW SG910W	79	83.3	83.4	4.3	3.6	.	.	.
STURDY GROW SG912W	80	84.4	75.4	4.2	3.5	.	.	.
STURDY GROW SG935W	81	76.0	91.7	3.8	3.6	.	.	.
WHISNAND EXP 1W	82	50.0	93.4	4.3	4.2	.	.	.
WHISNAND EXP 7W	83	60.4	91.3	4.7	4.4	.	.	.
WHISNAND EXP 77-2W	84	61.5	96.3	4.4	4.3	.	.	.
WHISNAND EXP 173	85	68.7	87.9	3.7	3.4	.	.	.
WHISNAND 53W	86	88.5	95.1	4.9	4.7	.	.	.
WHISNAND 55W	87	80.2	96.1	3.6	3.6	.	.	.
WHISNAND 57W	88	83.3	95.1	4.4	4.3	.	.	.
WHISNAND 71W	89	45.8	95.5	3.9	3.8	.	.	.
WHISNAND 77W	90	61.5	92.7	4.0	3.8	.	.	.
WHISNAND 91W	91	83.3	98.9	3.6	3.6	.	.	.
WHISNAND 93W	92	78.1	96.2	4.8	4.5	.	.	.
WHITE SEEDS MV48	34	83.3	90.1	4.3	3.9	.	.	.
WHITE SEEDS MV58	35	85.4	76.8	4.5	3.7	.	.	.
WHITE SEEDS MV68	36	90.6	78.2	3.8	3.2	.	.	.
WHITE SEEDS MV78	37	65.6	80.7	3.6	3.1	.	.	.
WHITE SEEDS MV88	38	80.2	82.8	3.9	3.4	.	.	.
ZIMMERMAN Z11W	96	83.3	96.3	4.0	3.9	.	.	.
ZIMMERMAN Z14	97	89.6	93.1	4.1	3.9	.	.	.
ZIMMERMAN Z52W	98	81.2	84.8	3.7	3.3	.	.	.
ZIMMERMAN Z53	99	76.0	87.7	4.7	4.2	.	.	.
ZIMMERMAN Z54	100	85.4	79.3	3.5	3.0	.	.	.
YELLOW CHECK B73 X M017	93	82.3	64.6	4.3	3.2	.	.	.
YELLOW CHECK PIONEER BRAND 3320	94	84.4	85.6	3.9	3.5	.	.	.
YELLOW CHECK US13	95	67.7	98.3	4.4	4.4	.	.	.
Mean		78.3	88.5	4.2	3.8			
LSD 0.05		15.1	14.4	0.8	0.9			
CV%		11.8	10.0	10.9	14.2			

Table 12. Second generation European Corn Borer data from the 1983 National White Maize Variety Trial at Columbia, MO.

Entry	No.	No. of tunnels	Tunnel length (in)	.	.	.	.	.
ASGROW RX813W	1	5.0	6.4	.	.	.	.	.
ASGROW RX962W	2	4.0	4.8	.	.	.	.	.
COKER 833W	3	3.9	5.0	.	.	.	.	.
DEKALB 10080	4	4.5	5.8	.	.	.	.	.
DEKALB EXP 375	5	4.1	4.6	.	.	.	.	.
DEKALB 24126	6	4.7	6.2	.	.	.	.	.
DEKALB 24301	7	4.4	6.2	.	.	.	.	.
DEKALB XL390B	8	5.2	6.3	.	.	.	.	.
FUNK G-4747W-1	9	4.4	5.4	.	.	.	.	.
FUNK G-4768W	10	4.4	5.7	.	.	.	.	.
FUNK G-4779W	11	4.4	5.6	.	.	.	.	.
FUNK G-4787W	12	3.9	4.7	.	.	.	.	.
GOLDEN HARVEST H-2644W	13	4.6	6.3	.	.	.	.	.
GOLDEN HARVEST H-2660W	14	4.4	4.9	.	.	.	.	.
IFSI 74-3	15	5.0	6.5	.	.	.	.	.
IFSI 77-1	16	4.9	6.2	.	.	.	.	.
IFSI 80-4	17	4.1	5.2	.	.	.	.	.
IFSI 80-6	18	3.8	4.3	.	.	.	.	.
IFSI 80-8	19	3.9	4.9	.	.	.	.	.
IFSI 81-3	20	3.5	4.1	.	.	.	.	.
IFSI 81-5	21	3.7	4.9	.	.	.	.	.
IFSI 82-2	22	5.0	6.5	.	.	.	.	.
IFSI 82-4	23	4.1	5.9	.	.	.	.	.
IFSI 83-1	24	3.4	4.1	.	.	.	.	.
IFSI 83-2	25	5.0	7.3	.	.	.	.	.
IFSI 83-3	26	4.0	5.1	.	.	.	.	.
IFSI 83-4	27	4.1	5.8	.	.	.	.	.
IFSI 83-5	28	4.8	6.2	.	.	.	.	.
JACQUES EXP W83110	29	3.8	4.7	.	.	.	.	.
JACQUES EXP W83115	30	4.1	5.7	.	.	.	.	.
JACQUES W190	31	3.3	4.4	.	.	.	.	.
JACQUES W200	32	3.6	4.5	.	.	.	.	.
JACQUES W300	33	4.9	5.7	.	.	.	.	.
MEACHAM'S MX50W	39	3.6	4.1	.	.	.	.	.
MO EXP 83-1	40	5.3	7.0	.	.	.	.	.
MO EXP 83-2	41	4.9	6.0	.	.	.	.	.
MO EXP 83-3	42	4.4	5.9	.	.	.	.	.
MO EXP 83-4	43	4.2	5.5	.	.	.	.	.
MO EXP 83-5	44	5.6	6.5	.	.	.	.	.
MO EXP 83-6	45	4.6	5.5	.	.	.	.	.
MO EXP 83-7	46	5.0	6.6	.	.	.	.	.
MO EXP 83-8	47	5.1	6.2	.	.	.	.	.
MO EXP 83-9	48	4.7	5.6	.	.	.	.	.
MO EXP 83-10	49	5.0	5.7	.	.	.	.	.
MO EXP 83-11	50	4.4	5.3	.	.	.	.	.
MO EXP 83-12	51	5.3	6.2	.	.	.	.	.
MO EXP 83-13	52	4.9	6.6	.	.	.	.	.
NC+ 6708W	53	4.9	5.8	.	.	.	.	.
NC+ 8707W	54	4.8	5.9	.	.	.	.	.
O'S GOLD EXP 25113W	55	3.8	5.0	.	.	.	.	.
O'S GOLD EXP 25501W	56	5.3	7.2	.	.	.	.	.
O'S GOLD EXP 25922W	57	4.2	5.5	.	.	.	.	.
O'S GOLD SX2560W	58	4.3	5.5	.	.	.	.	.
O'S GOLD SX2680W	59	4.6	5.9	.	.	.	.	.
P-A-G EXP 106184W	60	3.4	3.9	.	.	.	.	.

Table 12. Continued.

Entry	No.	No. of tunnels	Tunnel length (in)	.	.	.	.	.
P-A-G 644W	61	4.4	5.7	.	.	.	.	.
P-A-G SX 70W	62	4.1	4.9	.	.	.	.	.
PAYMASTER 399W	63	4.0	5.5	.	.	.	.	.
PAYMASTER 386036W	64	3.9	4.6	.	.	.	.	.
PAYMASTER UC1800W	65	3.8	4.4	.	.	.	.	.
PAYMASTER UC2100W	66	4.7	5.7	.	.	.	.	.
PAYMASTER U398W	67	4.4	5.4	.	.	.	.	.
PIONEER BRAND 519	68	3.7	4.8	.	.	.	.	.
PRINCETON SP936	69	4.5	5.5	.	.	.	.	.
PRINCETON SX910	70	4.3	5.6	.	.	.	.	.
RING AROUND RA2602W	71	4.3	5.1	.	.	.	.	.
RING AROUND RA2606W	72	4.6	5.4	.	.	.	.	.
RING AROUND RA3605W	73	5.4	6.9	.	.	.	.	.
STURDY GROW EXP 17563	74	3.7	5.1	.	.	.	.	.
STURDY GROW EXP 21621	75	4.4	5.5	.	.	.	.	.
STURDY GROW EXP 21637	76	4.6	6.0	.	.	.	.	.
STURDY GROW EXP 21642	77	5.1	6.0	.	.	.	.	.
STURDY GROW SG903W	78	3.3	4.1	.	.	.	.	.
STURDY GROW SG910W	79	5.8	7.3	.	.	.	.	.
STURDY GROW SG912W	80	4.6	6.1	.	.	.	.	.
STURDY GROW SG935W	81	6.4	7.6	.	.	.	.	.
WHISNAND EXP 1W	82	3.4	3.9	.	.	.	.	.
WHISNAND EXP 7W	83	4.9	5.8	.	.	.	.	.
WHISNAND EXP 77-2W	84	3.6	4.6	.	.	.	.	.
WHISNAND EXP 173	85	5.3	6.7	.	.	.	.	.
WHISNAND 53W	86	4.2	5.0	.	.	.	.	.
WHISNAND 55W	87	5.1	6.7	.	.	.	.	.
WHISNAND 57W	88	4.3	5.6	.	.	.	.	.
WHISNAND 71W	89	5.1	6.9	.	.	.	.	.
WHISNAND 77W	90	4.1	4.9	.	.	.	.	.
WHISNAND 91W	91	4.7	5.6	.	.	.	.	.
WHISNAND 93W	92	4.8	6.0	.	.	.	.	.
WHITE SEEDS MV48	34	3.7	4.6	.	.	.	.	.
WHITE SEEDS MV58	35	4.9	6.2	.	.	.	.	.
WHITE SEEDS MV68	36	4.3	5.7	.	.	.	.	.
WHITE SEEDS MV78	37	3.9	4.6	.	.	.	.	.
WHITE SEEDS MV88	38	5.4	6.9	.	.	.	.	.
ZIMMERMAN Z11W	96	4.3	5.2	.	.	.	.	.
ZIMMERMAN Z14	97	3.5	4.4	.	.	.	.	.
ZIMMERMAN Z52W	98	4.5	5.6	.	.	.	.	.
ZIMMERMAN Z53	99	4.8	6.4	.	.	.	.	.
ZIMMERMAN Z54	100	3.8	5.0	.	.	.	.	.
YELLOW CHECK B73 X M017	93	4.4	5.1	.	.	.	.	.
YELLOW CHECK PIONEER BRAND 3320	94	2.4	2.9	.	.	.	.	.
YELLOW CHECK US13	95	5.2	6.6	.	.	.	.	.
SUSCEPTIBLE CHECK WF9 X W182E		5.5	7.9					
RESISTANT CHECK PIONEER BRAND 3184		3.3	4.0					
Mean		4.4	5.6					
LSD 0.05		1.2	1.7					
CV%		17.1	18.8					

Table 13. Yield and agronomic data from common entries in the 1982-83 National White Maize Variety Trials.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Drop ears (%)	Ear height (in)	Days flwr (no)
ASGROW RX813W	2	97.9	86.5	3.5	8.3	.	39.6	74.6
ASGROW RX962W	2	111.9	94.2	8.4	11.4	.	49.3	79.9
DEKALB XL390B	2	109.4	89.4	5.4	10.0	.	48.8	79.0
FUNK G-4747W-1	2	110.2	91.8	5.3	10.2	.	47.5	79.4
FUNK G-4768W	2	105.5	92.8	9.0	11.5	.	49.9	79.5
FUNK G-4779W	2	115.7	91.8	5.5	9.0	.	48.5	79.8
FUNK G-4787W	2	107.7	89.2	7.3	6.7	.	49.4	81.5
GOLDEN HARVEST H-2644W	2	87.2	90.3	2.2	10.6	.	40.8	73.7
GOLDEN HARVEST H-2660W	2	108.7	90.9	7.5	11.5	.	48.7	79.6
IFSI 74-3	2	118.9	90.7	5.7	10.0	.	48.8	79.4
IFSI 77-1	2	110.9	87.9	8.1	10.5	.	47.7	79.4
IFSI 80-4	2	119.7	91.3	6.1	8.5	.	44.8	77.2
IFSI 80-6	2	120.2	91.5	4.8	10.3	.	47.1	77.0
IFSI 80-8	2	126.3	94.5	7.0	13.8	.	46.3	78.4
IFSI 81-3	2	122.3	91.8	3.8	14.0	.	48.5	77.6
IFSI 82-2	2	117.9	93.8	2.1	5.3	.	45.8	79.5
IFSI 82-4	2	124.6	90.5	3.6	8.7	.	47.0	78.6
JACQUES W200	2	84.1	90.7	6.8	10.6	.	46.6	74.3
JACQUES W300	2	113.1	91.4	8.1	11.6	.	48.3	79.9
MEACHAM'S MX50W	2	104.7	91.8	6.4	18.0	.	43.5	78.5
NC+ 8707W	2	118.5	96.1	7.1	13.3	.	49.3	79.9
O'S GOLD SX2560W	2	102.1	94.7	3.7	14.8	.	48.5	76.0
O'S GOLD SX2680W	2	117.0	90.8	7.0	9.6	.	49.3	79.8
P-A-G SX 70W	2	111.7	96.1	5.8	14.1	.	47.1	78.4
P-A-G 644W	2	104.2	94.5	6.0	13.9	.	49.9	80.5
PAYMASTER U398W	2	115.1	90.1	5.9	11.5	.	48.4	79.9
PIONEER BRAND 519	2	121.8	93.3	6.3	8.7	.	49.2	79.8
PRINCETON SP936	2	115.7	88.9	8.3	11.9	.	48.7	79.7
PRINCETON SX910	2	110.8	87.5	9.3	9.6	.	47.9	79.4
STURDY GROW EXP 17563	2	124.2	96.3	5.3	4.4	.	46.5	78.8
STURDY GROW SG910W	2	110.2	92.2	3.1	7.0	.	47.7	77.1
STURDY GROW SG912W	2	113.6	93.6	2.4	11.3	.	49.9	76.7
STURDY GROW SG935W	2	120.9	91.4	4.3	11.0	.	49.3	80.1
WHISNAND EXP 1W	2	98.0	75.0	6.6	10.5	.	45.2	75.8
WHISNAND EXP 7W	2	103.7	84.2	5.6	11.0	.	44.7	75.6
WHISNAND EXP 77-2W	2	101.3	82.9	5.2	11.9	.	44.3	76.1
WHISNAND 53W	2	105.0	93.7	2.8	11.1	.	37.1	73.3
WHISNAND 55W	2	119.3	95.5	6.5	14.8	.	43.1	74.9
WHISNAND 71W	2	98.6	74.5	4.2	12.3	.	44.9	75.9
WHISNAND 77W	2	107.8	84.3	7.5	11.8	.	46.0	76.1
WHISNAND 91W	2	114.2	94.0	9.5	12.3	.	48.6	79.6
WHITE SEEDS MV58	2	118.5	94.8	3.5	7.5	.	45.7	77.0
WHITE SEEDS MV68	2	109.1	92.8	3.2	11.4	.	48.6	76.8
WHITE SEEDS MV78	2	114.2	84.8	6.0	12.8	.	49.2	79.6
WHITE SEEDS MV88	2	115.5	87.9	6.1	9.6	.	47.9	79.8
YELLOW CHECK B73 X MO17	2	121.8	90.8	2.3	7.4	.	44.1	75.2
YELLOW CHECK PIONEER BRAND 3320	2	132.4	91.8	5.2	5.0	.	43.1	75.6
YELLOW CHECK US13	2	88.2	88.9	4.7	21.8	.	46.5	75.6
Mean	.	111.5	90.5	5.7	10.9	.	46.9	77.9

No. in the heading refers to years of data.

Table 14. Yield and agronomic data from common entries in the 1981-83 National White Maize Variety Trials.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Drop ears (%)	Ear height (in)	Days flwr (no)
ASGROW RX962W	3	118.7	94.8	8.5	11.4	.	48.2	79.3
FUNK G-4747W-1	3	120.7	93.9	5.4	10.1	.	45.9	79.2
FUNK G-4768W	3	113.5	94.5	9.2	11.6	.	48.5	79.1
FUNK G-4787W	3	112.5	91.2	7.8	7.3	.	47.8	81.0
GOLDEN HARVEST H-2644W	3	94.0	87.8	2.2	9.5	.	38.9	74.5
GOLDEN HARVEST H-2660W	3	118.8	92.3	8.4	11.7	.	48.8	79.0
IFSI 74-3	3	120.2	91.7	6.1	9.8	.	47.0	79.1
IFSI 77-1	3	117.5	89.7	7.5	10.5	.	47.3	79.2
IFSI 80-6	3	129.1	93.3	3.5	11.6	.	45.8	77.0
IFSI 81-3	3	129.4	93.0	3.3	14.7	.	47.3	77.5
JACQUES W200	3	98.4	92.5	7.2	11.3	.	45.1	75.0
MEACHAM'S MX50W	3	112.1	92.6	8.2	15.8	.	43.1	78.2
PAYMASTER U398W	3	123.1	90.8	6.8	10.1	.	47.4	79.3
PIONEER BRAND 519	3	130.0	94.3	5.8	9.0	.	48.1	79.4
PRINCETON SP936	3	124.2	89.2	7.7	10.6	.	47.6	79.1
PRINCETON SX910	3	119.8	88.6	9.0	10.2	.	47.2	79.3
STURDY GROW SG910W	3	120.6	93.6	3.5	8.1	.	47.3	77.2
STURDY GROW SG912W	3	118.9	93.6	2.1	11.0	.	47.3	76.8
STURDY GROW SG935W	3	128.1	91.8	5.5	10.4	.	47.7	79.4
WHISNAND EXP 77-2W	3	108.5	86.2	5.1	12.7	.	43.2	76.4
WHISNAND 71W	3	109.3	81.5	4.9	12.8	.	43.8	76.1
WHISNAND 77W	3	113.7	87.6	6.9	12.3	.	44.4	76.3
WHISNAND 91W	3	121.0	94.4	9.9	12.7	.	48.2	79.3
WHITE SEEDS MV58	3	127.6	95.0	4.6	8.1	.	45.3	77.2
WHITE SEEDS MV68	3	114.7	94.0	2.3	12.4	.	43.6	76.3
WHITE SEEDS MV78	3	122.2	87.5	7.9	12.1	.	48.1	79.1
WHITE SEEDS MV88	3	126.0	90.3	7.1	8.7	.	47.6	79.2
YELLOW CHECK B73 X M017	3	127.0	91.8	3.8	8.0	.	42.4	75.6
YELLOW CHECK PIONEER BRAND 3320	3	135.0	93.0	4.2	5.9	.	41.5	76.0
YELLOW CHECK US13	3	91.8	90.7	5.9	22.0	.	45.9	76.0
Mean	.	118.2	91.4	6.0	11.1	.	46.0	77.9

No. in the heading refers to years of data.

Table 15. Yield and agronomic data from common entries in the 1980-83 National White Maize Variety Trials.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Drop ears (%)	Ear height (in)	Days flwr (no)
FUNK G-4747W-1	4	110.6	93.6	4.9	9.3	0.4	45.8	79.2
FUNK G-4787W	4	101.8	91.4	7.6	7.0	0.4	47.8	81.1
GOLDEN HARVEST H-2644W	4	89.8	87.8	2.9	8.8	1.1	39.0	74.4
GOLDEN HARVEST H-2660W	4	109.7	91.9	7.3	10.6	0.8	48.2	79.1
IFSI 74-3	4	108.1	90.7	6.2	8.7	0.2	46.7	79.3
IFSI 77-1	4	108.5	90.0	8.5	9.6	1.1	46.8	79.1
IFSI 80-6	4	119.7	92.6	3.1	10.2	0.7	45.9	76.7
JACQUES W200	4	90.9	91.3	6.5	10.6	0.4	45.0	75.1
MEACHAM'S MX50W	4	104.3	92.2	9.9	15.3	0.9	43.0	78.3
PIONEER BRAND 519	4	119.9	93.7	5.7	8.1	0.5	48.1	79.2
PRINCETON SP936	4	113.8	89.6	7.6	9.4	1.1	47.8	79.1
PRINCETON SX910	4	110.9	89.7	8.2	9.1	1.0	47.3	79.1
STURDY GROW SG935W	4	115.8	91.7	4.9	10.1	0.7	47.5	79.4
WHISNAND EXP 77-2W	4	96.3	86.9	6.8	11.5	0.5	43.4	76.0
WHISNAND 77W	4	107.3	88.7	6.6	11.8	0.5	44.3	75.9
WHITE SEEDS MV78	4	112.6	87.2	7.3	10.4	0.7	47.3	79.0
WHITE SEEDS MV88	4	114.1	89.3	7.2	8.7	1.0	47.3	79.0
YELLOW CHECK B73 X MO17	4	117.7	91.3	3.2	8.5	1.0	42.7	75.2
YELLOW CHECK US13	4	85.6	90.6	6.6	20.6	1.2	45.6	75.8
Mean	.	107.2	90.6	6.4	10.4	0.7	45.8	77.9

No. in the heading refers to years of data.

Table 16. Yield and agronomic data from common entries in the 1979-83 National White Maize Variety Trials.

Entry	No.	Yield (bu/a)	Stand (%)	Root lodged (%)	Stalk lodged (%)	Drop ears (%)	Ear height (in)	Days flwr (no)
FUNK G-4787W	5	106.9	92.2	7.2	7.0	0.4	49.8	78.5
GOLDEN HARVEST H-2644W	5	92.3	88.7	3.3	9.4	0.8	40.8	72.7
GOLDEN HARVEST H-2660W	5	112.1	91.4	7.1	10.5	1.3	50.4	77.1
IFS1 74-3	5	111.7	91.6	6.1	8.8	0.7	48.8	77.2
IFS1 77-1	5	111.5	90.8	8.3	10.5	1.1	49.1	77.0
PIONEER BRAND 519	5	121.6	93.7	6.2	8.7	0.9	49.6	77.3
STURDY GROW SG935W	5	118.3	91.5	4.8	9.8	0.9	49.5	77.4
WHISNAND 77W	5	105.9	89.2	6.4	12.4	1.0	45.8	74.1
YELLOW CHECK B73 X M017	5	117.2	90.8	3.4	8.5	1.3	44.4	73.6
Mean	.	110.8	91.1	5.9	9.5	0.9	47.6	76.1

No. in the heading refers to years of data.

Table 17. Comparison of grain yield, stalk lodging, ear height, and days to flowering between the average of all white entries and the average of the yellow check hybrids B73 x Mo17 and Pioneer Brand 3320. US13 was omitted from the calculations.

Site	Yield (bu/a)		Stalk lodging %		Ear height (in)		Days to flowering	
	White	Yellow	White	Yellow	White	Yellow	White	Yellow
Lafayette, IN	67.0	115.6	1.3	0.7	47.8	44.2	.	.
Highland, KS	43.2	59.5	12.4	4.9	.	.	.	.
Manhattan, KS	84.9	92.3	9.9	7.8	.	.	80.8	78.5
Rossville, KS	94.4	112.0	17.5	12.6	.	.	77.1	75.2
Knoxville, TN	108.9	109.2	1.6	0.0	46.0	43.2	79.7	74.4
Union City, TN	133.0	150.3	8.2	4.5	.	.	.	.
Halfway, TX	140.0	140.8	22.6	12.3	42.6	41.0	85.9	82.4
Mean	95.9	111.4	10.5	6.1	45.5	42.8	80.9	77.6

Table 18. Kernel quality data from 11 sites of the 1982 National White Maize Variety Trial.

Entry	No.	Horny endspm (%)	100- kernel weight (g)	Kernel density (g/cc)	.	.	.	.
ASGROW RX813W	2	88.6	38.1	1.235	.	.	.	.
ASGROW RX962W	3	89.5	36.2	1.250	.	.	.	.
DEKALB XL390B	4	81.4	35.7	1.236	.	.	.	.
DEKALB EXP 10078	5	83.2	33.9	1.224	.	.	.	.
DEKALB EXP 10080	6	85.5	34.2	1.239	.	.	.	.
FUNK G-4747W-1	7	89.1	34.9	1.244	.	.	.	.
FUNK G-4768W	8	89.5	36.8	1.251	.	.	.	.
FUNK G-4779W	9	87.7	36.9	1.315	.	.	.	.
FUNK G-4787W	10	88.6	35.7	1.235	.	.	.	.
GOLDEN HARVEST H-2644W	11	85.9	30.6	1.215	.	.	.	.
GOLDEN HARVEST H-2660W	12	89.5	36.9	1.262	.	.	.	.
IFS I 74-3	13	87.7	38.2	1.262	.	.	.	.
IFS I 77-1	14	90.0	36.3	1.246	.	.	.	.
IFS I 79-1	15	84.1	35.9	1.225	.	.	.	.
IFS I 79-3	16	88.2	36.4	1.257	.	.	.	.
IFS I 80-4	17	91.4	31.5	1.246	.	.	.	.
IFS I 80-6	18	90.5	32.8	1.215	.	.	.	.
IFS I 80-8	19	90.5	32.5	1.236	.	.	.	.
IFS I 80-13	20	80.5	31.3	1.216	.	.	.	.
IFS I 81-2	21	88.2	34.5	1.232	.	.	.	.
IFS I 81-3	22	87.7	32.8	1.246	.	.	.	.
IFS I 82-1	23	88.2	30.8	1.225	.	.	.	.
IFS I 82-2	24	87.7	32.4	1.228	.	.	.	.
IFS I 82-3	25	88.2	35.1	1.276	.	.	.	.
IFS I 82-4	26	87.7	31.6	1.236	.	.	.	.
IFS I 82-5	27	85.0	34.7	1.227	.	.	.	.
JACQUES EXP 81113W	28	80.9	31.8	1.200	.	.	.	.
JACQUES EXP 81115W	29	84.1	35.2	1.248	.	.	.	.
JACQUES W200	30	92.7	34.4	1.228	.	.	.	.
JACQUES W300	31	86.4	35.7	1.243	.	.	.	.
LYNKS SC-WLA	32	89.1	36.3	1.260	.	.	.	.
LYNKS SC-WM	33	90.0	33.9	1.239	.	.	.	.
MEACHAM'S MX50W	38	89.1	31.8	1.235	.	.	.	.
NC+ 8707W	39	89.1	36.4	1.275	.	.	.	.
NORTHRUP KING X233A	40	89.5	36.5	1.265	.	.	.	.
O'S GOLD SX2560W	41	81.8	32.0	1.211	.	.	.	.
O'S GOLD SX2680W	42	90.0	37.2	1.258	.	.	.	.
P-A-G 386036W	43	88.6	33.3	1.238	.	.	.	.
P-A-G SX 70W	44	89.5	31.7	1.249	.	.	.	.
P-A-G 644W	45	89.5	33.1	1.253	.	.	.	.
PAYMASTER U398W	1	89.1	37.9	1.237	.	.	.	.
PIONEER BRAND 519	46	88.6	33.1	1.242	.	.	.	.
PRINCETON SP936	47	90.9	36.2	1.265	.	.	.	.
PRINCETON SX910	48	90.5	36.8	1.266	.	.	.	.
STURDY GROW SG908W	49	83.2	33.4	1.205	.	.	.	.
STURDY GROW SG910W	50	80.9	33.5	1.219	.	.	.	.
STURDY GROW SG912W	51	87.3	33.3	1.235	.	.	.	.
STURDY GROW SG935W	52	88.6	37.5	1.280	.	.	.	.
STURDY GROW EXP 0695	53	90.0	34.1	1.228	.	.	.	.
STURDY GROW EXP 1719	54	89.5	29.5	1.203	.	.	.	.
STURDY GROW EXP 1A7517	55	81.4	33.0	1.243	.	.	.	.
STURDY GROW EXP 17563	56	89.5	33.2	1.228	.	.	.	.
WHISNAND EXP 1W	57	90.5	34.6	1.227	.	.	.	.
WHISNAND EXP 7W	58	91.4	33.8	1.223	.	.	.	.
WHISNAND 53W	59	87.7	27.8	1.203	.	.	.	.

Table 18. Continued.

Entry	No.	Horny endspm (%)	100- kernel weight (g)	Kernel density (g/cc)	.	.	.	.
WHISNAND 55W	60	90.5	33.8	1.242	.	.	.	.
WHISNAND 71W	61	89.5	34.0	1.221	.	.	.	.
WHISNAND 75W	62	88.6	33.8	1.201	.	.	.	.
WHISNAND 77W	63	89.1	33.4	1.213	.	.	.	.
WHISNAND EXP 77-2W	64	90.9	35.1	1.234	.	.	.	.
WHISNAND 91W	65	88.6	36.6	1.252	.	.	.	.
WHITE SEEDS MV58	34	90.9	32.0	1.235	.	.	.	.
WHITE SEEDS MV68	35	88.6	34.5	1.235	.	.	.	.
WHITE SEEDS MV78	36	89.5	37.6	1.246	.	.	.	.
WHITE SEEDS MV88	37	90.9	36.6	1.261	.	.	.	.
YELLOW CHECK PIONEER BRAND 3320	66	86.8	36.6	1.261	.	.	.	.
YELLOW CHECK B73 X M017	67	74.5	31.7	1.195	.	.	.	.
YELLOW CHECK US13	68	76.8	28.8	1.200
Mean		87.6	34.2	1.238				
LSD 0.05		3.5	1.8	0.033				
CV%		4.8	6.0	3.1				

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