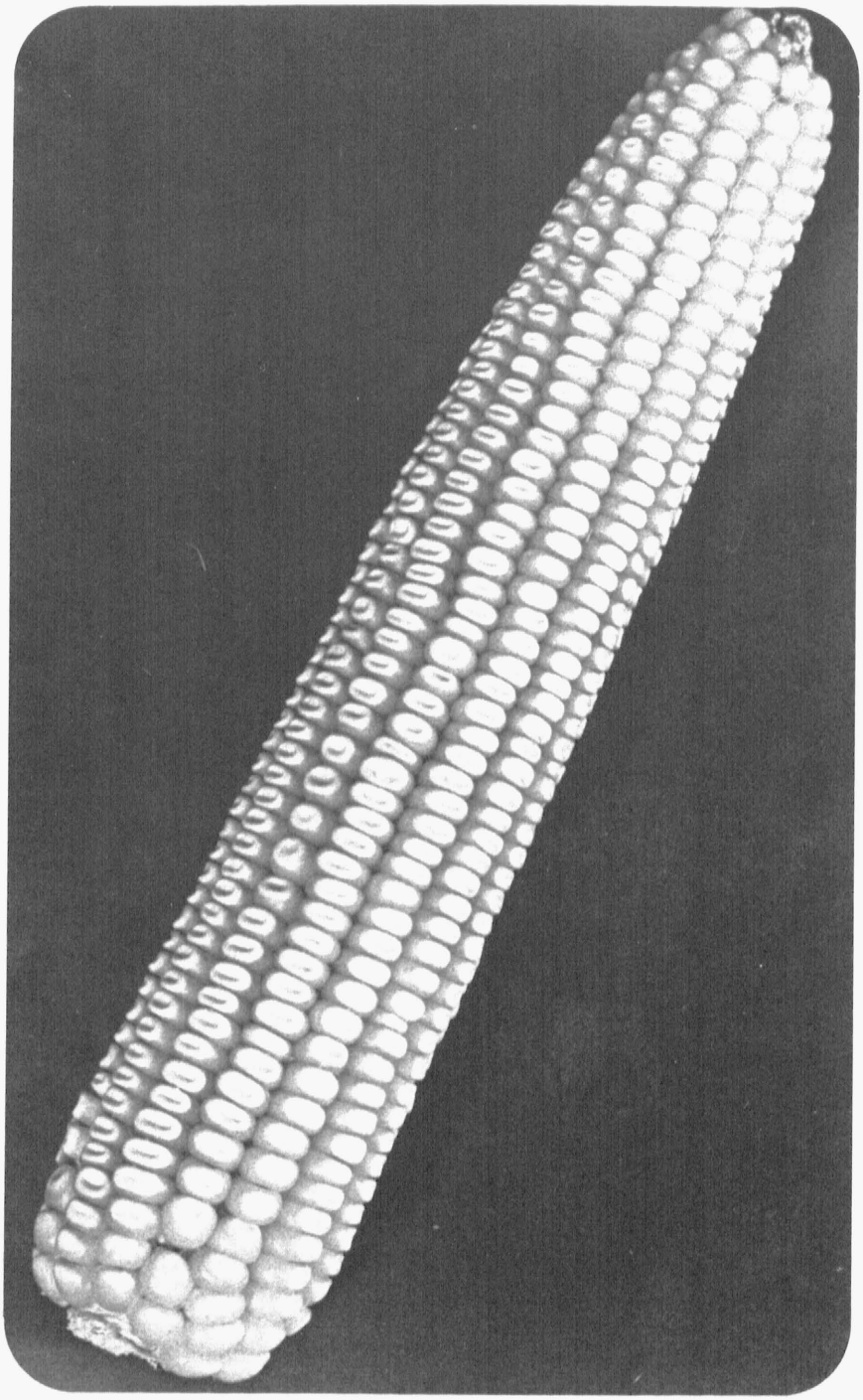
Missouri Crop Performance 1980



White Maize

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INTRODUCTION

The 1980 White Maize Variety Trial involved 53 hybrids plus 3 yellow checks submitted by 16 commercial seed producers or public institutions (Table 1). Nineteen locations were included in the evaluation. Data were received from sites in Illinois, Iowa, Indiana, Kansas, Kentucky, Missouri, Tennessee, and Texas. Virus data were obtained from Waverly, Tennessee and European corn borer ratings were taken at Ankeny, Iowa. Grain samples were evaluated for breakage susceptibility at Columbia, Missouri.

ENTRIES AND SEED SOURCES

Contributors of seed for the 1980 evaluation are listed in Table 1. Those entries that have an EXP as part of the hybrid name, such as Pioneer Brand EXP X5386, have not been released. The last three named hybrids in each table are yellow kernel hybrid checks.

Note that two entries, Jacques W-200 and Whisnand 79W, contain the dominant gametic factor (Ga) for normal pollen sterility. This means that they could only be pollinated by themselves or a genotype which was Ga. This may have resulted in limited pollen availability for these entries and caused reduced grain yields.

Seed of the yellow check entries B73 x Mo17 and Mo17 x N28 was provided by Dr. J. Thomas of the Missouri Farmers' Association, Columbia, MO.

SITE LOCATIONS AND AGRONOMIC PRACTICES

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

DATA COLLECTED

Yield

Yields (YLD Q/HA) were measured on a plot basis and converted to quintals per hectare (q/ha = 100 kg/ha) adjusted to 15.5 percent moisture. Since most trials were overplanted and thinned, yields were adjusted for percent stand at each site if the efficiency (ratio of error without adjustment to error with adjustment) of the covariance adjustment exceeded 104. To convert q/ha to bu/a, multiply by 1.6.

Stand

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 counted stand for each hybrid. Generally, a plant was rated as root lodged (ROOT L %) if it leaned more than 30 degrees from vertical; and as stalk lodged (STLK L %) if it was broken over or off below the ear. Breakage above the ear was not counted.

Dropped ears

Ears breaking away from the stalk were counted as dropped ears (DROP E %) and calculated as a percentage of the counted stand. With increased use of mechanical harvesting equipment, reliability of this character has decreased because of the difficulty of spotting the dropped ears from a moving combine.

Ear height

Ear height (EAR H CM) was measured from the soil level to the top ear leaf collar. Heights are expressed in centimeters (cm). To convert centimeters to inches, multiply by 0.4.

Days to flowering

The number of days (DAYS FLW) from planting to mid-tassel or mid-silk is shown.

Grain moisture

Grain moisture (MOIST %) was observed at harvest or when the grain was weighed.

European corn borer ratings

Leaf feeding by the first generation of the European corn borer (1ST ECB) was rated in nine classes in which a score of 1 represents no feeding, and 9 represents extensive feeding. Six plants in each plot were infested with two egg masses in each of four applications during the mid-whorl stage of plant development. Ratings for leaf feeding were made three weeks after egg hatch.

Sheath-collar feeding by the second generation of the European corn borer (2ND ECB) was rated on a 1 to 9 scale. Six plants per plot were infested with two egg masses in each of seven applications during pollen shedding. Rating of sheath-collar feeding was done about 60 days after egg hatch.

Virus ratings

Virus infection percentage (VIR INF %) is the percentage of plants in the plot showing symptoms. Virus severity (VIR SEVR) 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 in VIR SEVR. Average virus rating (AVG VIR) is the mean severity of all plants in the plot.

Kernel breakage

The percent broken kernels (BRKN K %) was obtained from grain of one replication from each of nine sites subjected to the "Missouri corn cracker". Grain was hot air dried (40°C) to a uniform moisture percentage for the individual site. It was then screened over a 6.4 mm screen and impacted by an impellor type device for evaluating resistance to breakage. After impaction, grain was again screened, and the precent broken kernels passing through a 6.4 mm screen determined. A sample of 175 g was used for impaction.

Bird loss

Bird loss (BIRDLOSS) is a visual estimate of the percentage of grain lost to birds. Data were observed only at Knoxville, TN.

Grain fill

Grain fill (GRN FILL) is a visual rating using a scale on which 1 represents a completely filled ear and 7 represents an ear with only a few scattered grains.

Environmental yield response (b_I) and standard deviation of fit (SD)

These statistics are shown only in Table 14 for the entry means combined over all sites. The yield response (b_I) is expressed as q/ha/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 q/ha. The origin and use of these statistics are fully described below.

STATISTICAL ANALYSIS AND INTERPRETATION

The evaluation was analysed as a three-replication, randomized complete block at each site. 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 two replications; a footnote is used to identify those characters.

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 of 10 to 15 percent are common for yield, stand, and ear heights. Values for lodging and dropped ears are sometimes much higher and are generally associated with nonsignificant differences among hybrids.

Agronomic data combined from 11 locations with an appropriate LSD 0.05 for each character are shown in Table 14. 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, zeros show in the site analysis; the combined mean and LSD 0.05 have been adjusted accordingly.

Yields shown have been adjusted for plot stand by standard covariance techniques only if the efficiency of adjustment exceeded 104. Then, we calculated the yield due to one additional plant per plot and adjusted plot yields by the difference between the plot stand and mean stand for the site.

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) is 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 be relatively advantageous 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.

Simple correlation coefficients were calculated among the characters observed based on character means. Significant correlations are noted with an asterisk and indicate that a positive or negative relationship exists between the characters.

NARRATIVE SUMMARY

Individual site yields ranged from 16.8 q/ha at Manhattan, KS to 85.1 q/ha at Lexington, KY. The overall trial average was 51.2 q/ha, considerably lower than in past years. Unusually low yields were noted at Novelty, MO and Troy, KS as well as Manhattan, KS due to drought and high temperatures during pollination. Coefficients of variation were very high at those sites, but it appeared that this was due more to low yields than large experimental errors. Yield data from Knoxville may have been biased due to heavy bird damage in some plots. Stands averaged 90.5 percent, with the lowest at just under 70 percent at Manhattan, KS. At Lexington, KY, plants were not counted, but stands were near perfect after thinning. A 100 percent value (64 plants) was used for computing root and stalk lodging percentages. Root and stalk lodging were variable, ranging from near zero to over 28 percent at Lexington, KY. Dropped ear percentages were low, and differences among entries were significant only at Tioga, TX. Most sites were harvested when grain moisture was below 25 percent or the grain was dried before shelling and weighing. At Novelty, MO, grain was harvested much wetter than normal to prevent further lodging losses.

The Champaign, IL site was not planted with a different randomization for each replication. Entries were matched with plot numbers which may cause a bias in the data due to correlation of competition effects from replication to replication.

Details of individual site data are given in Tables 3 to 13.

Combined agronomic data from 11 sites (Table 14)

The higher yielding two-thirds of the entries cannot be statistically differentiated. No entry yielded significantly more than the mean of all entries. Jacques W200, Whisnand 79W, Whisnand EXP 77-2W, and US13 yielded significantly less than the mean of all entries. Of these, Jacques W200 and Whisnand 79W have the dominant gametic factor which likely resulted in reduced seed set since all other entries were normal and could not pollinate these entries. The site x entry interaction was highly significant indicating differing entry responses in the sites sampled. Yields were adjusted for counted stand at two sites using the efficiency of greater than 104 criterion. At efficiencies of less than 104, error reduction cannot usually be obtained.

Root and stalk lodging percentage differences among entries were significant in the combined analysis. Root lodging percentage averaged 5.8 with only Meacham's MX50 (15.1%) being significantly different from the mean. Stalk lodging averaged 7.8 percent. No entry was significantly better than the average, but Meacham's MX50, MFA C4W, P-A-G SX70W, and US13 were significantly worse.

Differences among entries for dropped ear percentage were not significant, and the mean was only 0.8 percent. Entries that were significantly shorter than the mean ear height were Golden Harvest H-2644W, IFSI 4, IFSI 5, IFSI 13, P-A-G SX70W, Sturdy Grow SG9645W, Sturdy Grow SG9669W, and the check Mo17 x N28. Of these shorter entries, Golden Harvest H-2644W, IFSI 5, IFSI 13, and the check Mo17 x N28 were significantly earlier flowering than the mean of all entries.

The environmental response coefficients and standard deviations of fit are shown in the last two columns of Table 14. (A difference of $\pm$ 0.10 from 1.0 is necessary for significance. The LSD 0.05 should be used when comparing coefficients of two hybrids.) Sixteen entries had b_I's significantly greater than 1.0, indicating greater than average response to better environmental conditions, but poor performance in adverse environments. Golden Harvest H-2644W had an unusually low standard deviation (3.54 vs. mean of 7.5 q/ha).

In making a hybrid choice, all of the 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.

European corn borer and virus ratings, kernel breakage percentages, bird loss and grain fill ratings (Table 15)

European corn borer (ECB) ratings were taken at the Corn Insects Research Laboratory in Ankeny, IA. For the first generation of ECB, Golden Harvest H-2660W (3.3), IFSI 8 (5.0), and Pioneer Brand EXP X5386 (5.0) were significantly better than the mean of all entries (7.2). Several entries were rated as completely susceptible. The widely grown commercial yellow checks B73 x Mo17 and Mo17 x N28 averaged 8.4. Differences among entries were not significant for the second generation of ECB.

Virus ratings were made at Waverly, TN under conditions expected to provide high levels of incidence. Sixty-seven percent of all plants showed virus symptoms, with an average virus rating of 3.6 on a 1 to 9 scale in which 9 represented a severely affected plant. Funk G4787W, IFSI 6, and Ring Around RA3605W all had significantly less virus infection than the mean of all entries. Only Sturdy Grow SG9669W was significantly worse than the mean of all entries.

The average virus (AVG VIR) ratings of Funk G-4787W, IFSI 6, IFSI 10, Ring Around RA3605W, Sturdy Grow SG935W, and Whisnand EXP 91W were significantly lower than the mean of all entries. MFA C4W, P-A-G SX70W, Sturdy Grow SG9669W, Whisnand EXP 77-1W, and B73 x Mo17 had average virus ratings significantly higher than the mean of all entries.

The "Missouri corn cracker" broke an average of 46.8 percent of the kernels impacted. Nine entries had significantly less breakage than the mean, of which the three best were IFSI 13 (39.9%), ACCO US1800W (40.2%) and US13 (40.3%). Only two entries had significantly more breakage than the mean of all entries: Golden Harvest H-2665W (51.3%) and Whisnand EXP 77-1W (51.3%).

The estimated loss of grain to birds at Knoxville, TN was 9.4 percent. Pioneer Brand EXP X5386, at 2.0 percent loss, was the only entry significantly lower than the mean. IFSI 13, Meacham's MV88, Sturdy Grow SG935W and SG9677, and B73 x Mo17 lost significantly more grain to birds than the average entry.

No entry was significantly better than the mean for grain fill rating observed at Knoxville, TN. Significantly worse than the mean were Jacques W200, Whisnand 79W, and Whisnand EXP 77-2W. The first two entries have the dominant gametic factor which probably caused reduced seed set when these plots were surrounded by plants without the gametic factor.

Correlations among agronomic characters (Table 16)

Yield was not positively correlated with any observed variable. Significant negative correlations with yield were found for root lodging percentage, second generation of ECB, and the estimate of grain filling (a rating of 1 represented a full ear). Entries with higher virus susceptibility (VIR INF %) had reduced ear height and fewer days to flowering. Kernel breakage was significantly correlated (r = 0.27) with damage by the second generation of ECB.

Comparison of white and yellow grain entries (Table 17)

Grain yield, stalk lodging prcentage, ear height, and days to flower for the 53 white entries and the two yellow checks B73 x Mo17 and Mo17 x N28 are compared in Table 17. At 2 of 11 sites, the white entries outyielded the yellow checks. Overall, the yellow checks yielded 9.6 percent more than the white entries. The white entries generally were less likely to stalk lodge, had slightly higher ear placement, and took three days longer to flower.

Milling quality evaluation

Milling quality of entries in the 1979 White Maize Variety Trial was evaluated by The Quaker Oats Company's Barrington Research Laboratories. Due to the time necessary to make these evaluations, results are not obtained until the following year. Entries from the 1979 trial that had the most desirable milling quality were ACCO U398W, Zimmerman Z52W, Mason 5850A, Whisnand 91W, and Whisnand 900W.

Entries with the least desirable milling quality were Coker 6104, Sturdy Grow SG908W, DeKalb XL390B, IFSI 4, and Cargill 99W.

TABLE 1. SOURCES OF COMMERCIAL WHITE SEED MAIZE HYBRIDS ENTERED IN THE 1980 WHITE MAIZE VARIETY TRIAL.

BRAND	FIRM+	ADDRESS
ACCO	ACCO SEED	P.O. BOX 9, BELMOND, IA 50421
CARGILL	CARGILL SEED	P.O. BOX 9300, DEPT. 16, MINNEAPOLIS, MN 55440
DEKALB	DEKALB AGRESEARCH, INC.	SYCAMORE ROAD, DEKALB, IL 60115
FUNK	FUNK SEEDS INT'L.	1300 WEST WASHINGTON ST., BLOOMINGTON, IL 61701
GOLDEN HARVEST	GOLDEN HARVEST SEEDS, INC.	513 E. LOCUST, BLOOMINGTON, IL 61701
IFS	ILLINOIS FOUNDATION SEED	P.O. BOX 722, CHAMPAIGN, IL 61820
JACQUES	JACQUES SEED CO.	PRESCOTT, WI 54021
LYNKS	LYNKS	P.O. BOX 637, MARSHALLTOWN, IA 50158
MEACHAM	MEACHAM'S HYBRIDS	RR3, P.O. BOX 239, MORGAN FIELD, KY 42437
MFA	MFA SEED DIVISION	P.O. BOX 550, MARSHALL, MO 65340
P-A-G	P-A-G SEEDS	P.O. BOX 9480, DEPT. 16, MINNEAPOLIS, MN 55440
PIONEER	PIONEER HI-BRED INTERNATIONAL, INC.	1206 MULBERRY ST., DES MOINES, IA 50308
PRINCETON	PRINCETON FARMS	PRINCETON, IN 47670
RING AROUND	RING AROUND PRODUCTS, INC.	P.O. BOX 1629, PLAINVIEW, TX 79072
STURDYGROW	STURDY-GROW HYBRID CORN CO.	P.O. BOX 94, ARCOLA, IL 61910
WHISNAND	WHISNAND HYBRIDS	RFD 1, ARCOLA, IL 61910

+MENTION OF A TRADEMARK OR PROPRIETARY PRODUCT DOES NOT CONSTITUTE A GUARANTEE OR WARRENTY 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 (Q/HA)	PREVIOUS CROP	FERTILIZER (KG/HA)+ N	P_2O_5	K_2O	DATE PLANTED	HERBICIDE	INSECTICIDE	PLANTED DENSITY (/HA)‡
CHAMPAIGN, IL	56.6	MAIZE	201	148	184	28APR80	BUTYLATE	CARBOFURAN	47,443
IOWA CITY, IA	72.1	–	–	–	–	–	–	–	–
LAFAYETTE, IN	65.6	–	–	–	–	–	–	–	–
MANHATTAN, KS	16.8	–	–	–	–	–	–	–	47,838
SILVER LAKE, KS	50.1	–	235	47	23	21APR80	ATRAZINE,BUTYLATE	TERBUFOS	49,205
TROY, KS	25.5	–	–	–	–	–	–	–	–
LEXINGTON, KY	85.1	MAIZE	167	0	111	12MAY80	ATRAZINE,ALACHLOR	–	55,000
NOVELTY, MO	18.7	MAIZE	157	90	202	27MAY80	ATRAZINE,CYANAZINE	CHLORPYRIFOS	53,818
KNOXVILLE, TN	55.8	SOYBEANS	179	135	135	24APR80	ATRAZINE,ALACHLOR	–	48,432
UNION CITY, TN	75.2	MAIZE	202	112	112	21APR80	ATRAZINE,METOLACHLOR	–	64,246
TIOGA, TX	41.4	PEANUTS	155	81	181	24MAR80	ATRAZINE,ALACHLOR	CARBOFURAN	54,362

+TO CONVERT KG/HA TO LBS/A, MULTIPLY BY 0.9,

‡TO CONVERT PLANTS/HA TO PLANTS/A, DIVIDE BY 2.5.

TABLE 3. YIELD AND AGRONOMIC DATA OBTAINED FROM THE 1980 WHITE MAIZE VARIETY TRIAL AT CHAMPAIGN, IL.+

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %
ACCO UC1800W	1	55.5	95.3	11.4	0.0	0.0	0.0	0.0	20.3
ACCO UC2100W	2	61.5	97.9	22.3	0.0	0.0	0.0	0.0	25.8
CARGILL 99W	3	78.2	98.4	10.5	3.2	0.0	0.0	0.0	30.2
DEKALB XL390B	4	82.5	96.4	6.5	2.2	0.0	0.0	0.0	25.5
FUNK G-4747W-1	5	58.7	99.0	9.9	2.1	0.0	0.0	0.0	26.0
FUNK G-4787W	6	57.8	99.0	5.8	2.7	0.0	0.0	0.0	27.1
GOLDEN HARVEST H-2644W	7	51.5	94.3	5.6	2.8	0.0	0.0	0.0	22.3
GOLDEN HARVEST H-2660W	8	75.8	99.0	7.8	2.6	0.0	0.0	0.0	27.6
GOLDEN HARVEST H-2665W	9	64.1	99.0	16.8	1.6	0.0	0.0	0.0	25.5
IFSI 1	10	59.0	94.3	4.2	2.2	0.0	0.0	0.0	24.8
IFSI 2	11	49.7	100.0	14.1	3.1	0.0	0.0	0.0	24.9
IFSI 3	12	76.3	100.0	3.6	2.6	0.0	0.0	0.0	21.4
IFSI 4	13	61.4	95.3	5.5	3.4	0.0	0.0	0.0	27.0
IFSI 5	14	36.8	97.4	11.3	1.7	0.0	0.0	0.0	24.5
IFSI 6	15	81.2	97.4	7.8	0.0	0.0	0.0	0.0	23.3
IFSI 7	16	74.0	96.4	8.9	0.5	0.0	0.0	0.0	27.1
IFSI 8	17	73.9	100.0	6.2	1.6	0.0	0.0	0.0	28.2
IFSI 9	18	75.8	97.4	12.6	3.3	0.0	0.0	0.0	25.7
IFSI 10	19	54.4	97.9	9.0	0.5	0.0	0.0	0.0	22.0
IFSI 11	20	44.7	100.0	41.1	4.2	0.0	0.0	0.0	24.3
IFSI 12	21	34.2	94.8	15.7	0.5	0.0	0.0	0.0	24.2
IFSI 13	22	69.0	100.0	10.9	1.0	0.0	0.0	0.0	19.5
JACQUES W200	23	40.1	96.4	10.6	1.6	0.0	0.0	0.0	23.2
JACQUES W300	24	59.5	96.4	10.8	1.6	0.0	0.0	0.0	27.5
JACQUES EXP 9110W	25	61.9	100.0	6.8	2.6	0.0	0.0	0.0	23.0
LYNKS SC-WM	26	60.7	100.0	9.4	1.0	0.0	0.0	0.0	23.3
LYNKS SC-WLA	27	58.7	96.9	2.8	1.7	0.0	0.0	0.0	27.0
MEACHAM'S MV78	28	64.1	95.3	12.0	0.6	0.0	0.0	0.0	27.1
MEACHAM'S MV88	29	63.3	98.4	16.8	1.1	0.0	0.0	0.0	25.8
MEACHAM'S MX50	30	66.5	100.0	55.7	1.6	0.0	0.0	0.0	26.7
MFA C4W	31	63.3	99.0	28.7	8.9	0.0	0.0	0.0	25.6
P-A-G SX 70W	32	75.6	96.4	39.1	4.8	0.0	0.0	0.0	28.5
P-A-G 644W	33	69.4	99.0	21.1	0.5	0.0	0.0	0.0	26.3
PIONEER BRAND EXP X5386	34	76.6	100.0	10.4	5.7	0.0	0.0	0.0	22.5
PRINCETON SX910	35	62.9	100.0	14.1	0.5	0.0	0.0	0.0	25.9
PRINCETON SP936	36	48.0	99.0	20.9	1.6	0.0	0.0	0.0	25.9
RING AROUND RA2602W	37	56.0	97.4	9.1	1.1	0.0	0.0	0 0	25.6
RING AROUND RA3605W	38	43.9	98.4	9.0	1.1	0.0	0.0	0.0	25.7
STURDY GROW SG908W	39	56.9	99.0	8.4	0.0	0.0	0.0	0.0	21.4
STURDY GROW SG921W	40	46.3	93.7	38.5	0.6	0.0	0.0	0.0	25.7

TABLE 3. CONTINUED.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %
STURDY GROW SG935W	41	30.9	93.2	16.1	4.2	0.0	0.0	0.0	24.3
STURDY GROW SG9641W	42	36.8	97.9	19.4	2.1	0.0	0.0	0.0	24.2
STURDY GROW SG9645W	43	30.3	102.1	7.8	1.6	0.0	0.0	0.0	26.3
STURDY GROW SG9649W	44	32.9	93.7	4.4	7.4	0.0	0.0	0.0	19.8
STURDY GROW SG9669W	45	35.5	97.4	22.2	1.1	0.0	0.0	0.0	23.1
STURDY GROW SG9677W	46	27.4	94.8	14.3	1.6	0.0	0.0	0.0	21.7
WHISNAND 75W	47	61.8	96.4	10.1	1.6	0.0	0.0	0.0	22.5
WHISNAND 77W	48	62.3	98.4	23.6	2.6	0.0	0.0	0.0	22.4
WHISNAND 79W	49	27.6	98.4	11.6	3.3	0.0	0.0	0.0	22.5
WHISNAND EXP 77-1W	50	54.2	93.7	21.7	0.6	0.0	0.0	0.0	21.2
WHISNAND EXP 77-2W	51	26.3	100.0	31.2	2.6	0.0	0.0	0.0	20.6
WHISNAND EXP 2W	52	66.2	99.5	34.7	3.7	0.0	0.0	0.0	22.3
WHISNAND EXP 91W	53	44.8	99.5	14.6	4.2	0.0	0.0	0.0	26.8
YELLOW CHECK B73 X MO17	54	78.8	97.9	2.7	1.1	0.0	0.0	0.0	21.4
YELLOW CHECK MO17 X N28	55	58.6	97.9	6.9	1.1	0.0	0.0	0.0	22.3
YELLOW CHECK US13	56	43.6	100.0	10.4	4.7	0.0	0.0	0.0	20.4
MEAN	.	56.6	97.8	14.7	2.2	.	.	.	24.4
LSD 0.05	.	14.1	.	20.4	.	.	.	.	1.9
CV%	.	15.2	.	85.1	.	.	.	.	4.7

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.
+ THE SAME RANDOMIZATION WAS USED FOR ALL THREE REPLICATIONS.

TABLE 4. YIELD AND AGRONOMIC DATA OBTAINED FROM THE 1980 WHITE MAIZE VARIETY TRIAL AT LAFAYETTE, IN.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %
ACCO UC1800W	1	55.2	98.0	0.0	10.2	0.0	116.7	0.0	17.0
ACCO UC2100W	2	51.4	97.7	0.0	2.3	0.0	103.3	0.0	20.7
CARGILL 99W	3	61.3	100.0	0.0	6.0	0.0	108.3	0.0	20.3
DEKALB XL390B	4	57.7	86.0	0.0	2.3	0.0	115.3	0.0	18.7
FUNK G-4747W-1	5	56.5	100.0	0.0	1.3	0.0	118.7	0.0	20.2
FUNK G-4787W	6	40.3	100.0	0.0	1.3	0.0	112.7	0.0	19.9
GOLDEN HARVEST H-2644W	7	59.0	100.0	0.0	5.7	0.0	96.7	0.0	17.9
GOLDEN HARVEST H-2660W	8	65.5	98.7	0.0	4.4	0.0	116.0	0.0	20.2
GOLDEN HARVEST H-2665W	9	74.1	94.0	0.0	6.8	0.0	113.3	0.0	19.4
IFSI 1	10	91.6	100.0	0.0	6.0	0.0	107.7	0.0	20.4
IFSI 2	11	53.5	100.0	0.0	5.7	0.0	120.3	0.0	19.8
IFSI 3	12	72.7	98.7	0.0	3.0	0.0	110.0	0.0	17.3
IFSI 4	13	74.3	100.0	0.0	4.3	0.0	100.3	0.0	20.7
IFSI 5	14	52.3	100.0	0.0	2.0	0.0	91.7	0.0	19.4
IFSI 6	15	87.8	100.0	0.0	8.3	0.0	115.3	0.0	20.8
IFSI 7	16	62.2	100.0	0.0	5.0	0.0	111.7	0.0	20.4
IFSI 8	17	71.4	100.0	0.0	12.7	0.0	107.7	0.0	21.3
IFSI 9	18	72.0	100.0	0.0	7.3	0.0	108.3	0.0	20.3
IFSI 10	19	72.4	98.0	0.0	10.2	0.0	114.0	0.0	17.2
IFSI 11	20	68.7	100.0	0.0	5.0	0.0	108.3	0.0	19.7
IFSI 12	21	70.8	100.0	0.0	2.3	0.0	107.7	0.0	19.6
IFSI 13	22	63.2	100.0	0.0	0.7	0.0	96.3	0.0	16.0
JACQUES W200	23	62.8	99.3	0.0	8.4	0.0	114.3	0.0	16.8
JACQUES W300	24	50.4	98.7	0.0	6.2	0.0	115.7	0.0	21.1
JACQUES EXP 9110W	25	62.4	95.0	0.0	4.1	0.0	116.0	0.0	17.3
LYNKS SC-WM	26	61.7	100.0	2.3	8.0	0.0	102.7	0.0	16.3
LYNKS SC-WLA	27	63.6	100.0	0.0	5.0	0.0	115.0	0.0	20.6
MEACHAM'S MV78	28	70.3	89.7	0.0	3.3	0.0	107.3	0.0	20.9
MEACHAM'S MV88	29	79.8	94.0	0.0	7.2	0.0	110.3	0.0	21.0
MEACHAM'S MX50	30	56.9	98.7	0.0	16.6	0.0	98.3	0.0	19.7
MFA C4W	31	52.1	100.0	0.0	14.0	0.0	103.7	0.0	19.4
P-A-G SX 70W	32	52.9	100.0	0.0	6.7	0.0	107.7	0.0	19.7
P-A-G 644W	33	57.5	99.3	0.0	4.0	0.0	120.3	0.0	17.9
PIONEER BRAND EXP X5386	34	67.6	92.7	2.3	0.9	0.0	116.0	0.0	17.2
PRINCETON SX910	35	77.5	100.0	0.0	0.7	0.0	116.7	0.0	20.1
PRINCETON SP936	36	77.3	91.7	0.0	2.5	0.0	122.3	0.0	19.5
RING AROUND RA2602W	37	58.8	98.7	0.0	3.1	0.0	111.0	0.0	20.6
RING AROUND RA3605W	38	72.9	99.3	0.0	5.4	0.0	110.3	0.0	20.3
STURDY GROW SG908W	39	61.1	100.0	0.0	4.3	0.0	116.0	0.0	17.2
STURDY GROW SG921W	40	44.7	92.7	0.0	2.0	0.0	103.3	0.0	20.4

TABLE 4. CONTINUED.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %
STURDY GROW SG935W	41	78.1	100.0	0.0	1.3	0.0	114.3	0.0	19.9
STURDY GROW SG9641W	42	65.7	100.0	0.0	0.7	0.0	102.0	0.0	18.8
STURDY GROW SG9645W	43	63.0	100.0	0.0	2.7	0.0	92.0	0.0	19.5
STURDY GROW SG9649W	44	86.3	100.0	0.0	3.7	0.0	102.3	0.0	17.6
STURDY GROW SG9669W	45	68.7	100.0	1.3	3.7	0.0	84.3	0.0	19.5
STURDY GROW SG9677W	46	63.6	98.0	0.7	3.7	0.0	106.7	0.0	16.7
WHISNAND 75W	47	76.9	100.0	0.0	2.0	0.0	105.0	0.0	17.5
WHISNAND 77W	48	83.2	100.0	0.0	4.3	0.0	107.7	0.0	16.7
WHISNAND 79W	49	58.8	100.0	0.0	3.7	0.0	111.7	0.0	15.9
WHISNAND EXP 77-1W	50	68.2	100.0	0.0	3.7	0.0	108.3	0.0	17.0
WHISNAND EXP 77-2W	51	50.6	94.0	0.0	3.7	0.0	104.3	0.0	17.0
WHISNAND EXP 2W	52	85.0	100.0	0.0	5.0	0.0	108.3	0.0	16.7
WHISNAND EXP 91W	53	70.6	100.0	0.0	2.3	0.0	104.0	0.0	20.3
YELLOW CHECK B73 X M017	54	68.2	99.3	0.0	6.0	0.0	106.7	0.0	15.7
YELLOW CHECK M017 X N28	55	70.8	99.3	0.0	7.0	0.0	100.3	0.0	18.1
YELLOW CHECK US13	56	53.8	99.3	0.0	19.8	0.0	116.7	0.0	16.1
MEAN	.	65.6	98.4	0.1	5.2	.	108.6	.	18.9
LSD 0.05	.	13.8	6.1	.	7.2	.	10.7	.	1.2
CV%	.	12.9	3.8	.	85.4	.	6.0	.	3.9

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 5. YIELD AND AGRONOMIC DATA OBTAINED FROM THE 1980 WHITE MAIZE VARIETY TRIAL AT IOWA CITY, IA.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %
ACCO UC1800W	1	76.2	99.0	0.0	0.0	0.0	0.0	0.0	20.9
ACCO UC2100W	2	69.2	98.4	0.0	0.0	0.0	0.0	0.0	24.6
CARGILL 99W	3	56.3	98.4	0.0	0.0	0.0	0.0	0.0	24.6
DEKALB XL390B	4	80.6	100.0	0.0	0.0	0.0	0.0	0.0	23.5
FUNK G-4747W-1	5	60.1	97.4	0.0	0.0	0.0	0.0	0.0	24.1
FUNK G-4787W	6	44.5	95.8	0.0	0.0	0.0	0.0	0.0	24.6
GOLDEN HARVEST H-2644W	7	69.5	99.5	0.0	0.0	0.0	0.0	0.0	22.0
GOLDEN HARVEST H-2660W	8	58.0	99.0	0.0	0.0	0.0	0.0	0.0	25.1
GOLDEN HARVEST H-2665W	9	59.6	96.4	0.0	0.0	0.0	0.0	0.0	23.6
IFSI 1	10	87.8	99.0	0.0	0.0	0.0	0.0	0.0	24.0
IFSI 2	11	85.8	99.0	0.0	0.0	0.0	0.0	0.0	23.1
IFSI 3	12	88.3	97.9	0.0	0.0	0.0	0.0	0.0	20.2
IFSI 4	13	84.0	96.4	0.0	0.0	0.0	0.0	0.0	25.0
IFSI 5	14	81.4	95.8	0.0	0.0	0.0	0.0	0.0	22.6
IFSI 6	15	78.3	100.0	0.0	0.0	0.0	0.0	0.0	24.0
IFSI 7	16	82.7	100.0	0.0	0.0	0.0	0.0	0.0	25.0
IFSI 8	17	75.9	97.9	0.0	0.0	0.0	0.0	0.0	26.0
IFSI 9	18	84.1	99.5	0.0	0.0	0.0	0.0	0.0	23.5
IFSI 10	19	81.1	97.9	0.0	0.0	0.0	0.0	0.0	21.0
IFSI 11	20	62.4	98.4	0.0	0.0	0.0	0.0	0.0	25.9
IFSI 12	21	61.8	97.9	0.0	0.0	0.0	0.0	0.0	24.1
IFSI 13	22	88.8	99.5	0.0	0.0	0.0	0.0	0.0	19.5
JACQUES W200	23	71.9	95.3	0.0	0.0	0.0	0.0	0.0	20.2
JACQUES W300	24	68.5	97.9	0.0	0.0	0.0	0.0	0.0	24.7
JACQUES EXP 9110W	25	67.3	100.0	0.0	0.0	0.0	0.0	0.0	21.3
LYNKS SC-WM	26	71.9	100.0	0.0	0.0	0.0	0.0	0.0	20.0
LYNKS SC-WLA	27	81.9	91.7	0.0	0.0	0.0	0.0	0.0	24.6
MEACHAM'S MV78	28	65.3	95.8	0.0	0.0	0.0	0.0	0.0	23.9
MEACHAM'S MV88	29	49.9	96.4	0.0	0.0	0.0	0.0	0.0	24.8
MEACHAM'S MX50	30	65.2	97.4	0.0	0.0	0.0	0.0	0.0	24.8
MFA C4W	31	62.9	98.4	0.0	0.0	0.0	0.0	0.0	23.6
P-A-G SX 70W	32	70.0	100.0	0.0	0.0	0.0	0.0	0.0	25.2
P-A-G 644W	33	65.6	97.4	0.0	0.0	0.0	0.0	0.0	23.2
PIONEER BRAND EXP X5386	34	86.7	97.4	0.0	0.0	0.0	0.0	0.0	21.1
PRINCETON SX910	35	47.5	99.0	0.0	0.0	0.0	0.0	0.0	24.9
PRINCETON SP936	36	67.7	99.0	0.0	0.0	0.0	0.0	0.0	24.4
RING AROUND RA2602W	37	64.3	93.7	0.0	0.0	0.0	0.0	0.0	25.0
RING AROUND RA3605W	38	64.4	99.0	0.0	0.0	0.0	0.0	0.0	24.7
STURDY GROW SG908W	39	78.6	99.0	0.0	0.0	0.0	0.0	0.0	20.6
STURDY GROW SG921W	40	72.7	96.4	0.0	0.0	0.0	0.0	0.0	23.9

TABLE 5. CONTINUED.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %
STURDY GROW SG935W	41	72.4	100.0	0.0	0.0	0.0	0.0	0.0	24.0
STURDY GROW SG9641W	42	67.6	99.5	0.0	0.0	0.0	0.0	0.0	24.1
STURDY GROW SG9645W	43	79.6	100.0	0.0	0.0	0.0	0.0	0.0	25.1
STURDY GROW SG9649W	44	86.3	95.8	0.0	0.0	0.0	0.0	0.0	23.1
STURDY GROW SG9669W	45	70.5	97.4	0.0	0.0	0.0	0.0	0.0	22.5
STURDY GROW SG9677W	46	76.7	100.0	0.0	0.0	0.0	0.0	0.0	20.1
WHISNAND 75W	47	73.7	100.0	0.0	0.0	0.0	0.0	0.0	21.0
WHISNAND 77W	48	83.3	99.0	0.0	0.0	0.0	0.0	0.0	20.3
WHISNAND 79W	49	55.7	100.0	0.0	0.0	0.0	0.0	0.0	19.0
WHISNAND EXP 77-1W	50	89.4	95.8	0.0	0.0	0.0	0.0	0.0	13.9
WHISNAND EXP 77-2W	51	57.4	99.5	0.0	0.0	0.0	0.0	0.0	20.9
WHISNAND EXP 2W	52	70.2	99.5	0.0	0.0	0.0	0.0	0.0	20.7
WHISNAND EXP 91W	53	63.6	97.4	0.0	0.0	0.0	0.0	0.0	25.5
YELLOW CHECK B73 X M017	54	97.9	97.4	0.0	0.0	0.0	0.0	0.0	20.5
YELLOW CHECK M017 X N28	55	89.7	99.5	0.0	0.0	0.0	0.0	0.0	23.2
YELLOW CHECK US13	56	64.6	99.5	0.0	0.0	0.0	0.0	0.0	19.0
MEAN	.	72.1	98.2	.	.	.	.	.	22.8
LSD 0.05	.	19.7	.	.	.	.	.	.	3.0
CV%	.	16.7	.	.	.	.	.	.	8.1

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 6. YIELD AND AGRONOMIC DATA OBTAINED FROM THE 1980 WHITE MAIZE VARIETY TRIAL AT MANHATTAN, KS.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %
ACCO UC1800W	1	22.2	73.3	0.0	6.7	4.9	0.0	76.0	15.7
ACCO UC2100W	2	20.6	80.0	0.0	4.3	4.2	0.0	78.7	18.7
CARGILL 99W	3	18.7	71.7	0.0	2.3	4.7	0.0	79.7	20.5
DEKALB XL390B	4	13.5	61.7	0.0	3.9	2.0	0.0	77.7	16.0
FUNK G-4747W-1	5	19.2	75.0	0.0	1.5	1.5	0.0	78.7	17.0
FUNK G-4787W	6	24.7	73.3	0.0	4.8	1.5	0.0	80.0	16.6
GOLDEN HARVEST H-2644W	7	17.2	70.0	0.0	1.5	2.7	0.0	75.3	15.0
GOLDEN HARVEST H-2660W	8	15.1	68.9	0.0	5.6	0.8	0.0	79.3	14.5
GOLDEN HARVEST H-2665W	9	5.0	70.6	0.0	2.5	1.5	0.0	78.0	15.6
IFSI 1	10	14.3	69.4	0.0	3.3	0.0	0.0	74.3	15.5
IFSI 2	11	18.7	72.2	0.0	2.8	1.5	0.0	78.7	16.0
IFSI 3	12	14.9	77.2	0.0	5.7	1.5	0.0	73.7	14.1
IFSI 4	13	31.1	86.7	0.0	1.3	1.9	0.0	78.0	16.7
IFSI 5	14	14.8	72.2	0.0	3.8	0.0	0.0	76.0	16.0
IFSI 6	15	16.6	65.6	0.0	1.6	1.8	0.0	76.0	14.6
IFSI 7	16	12.9	78.3	0.0	4.3	1.4	0.0	77.7	15.7
IFSI 8	17	14.5	69.4	0.0	2.4	0.0	0.0	77.7	17.1
IFSI 9	18	5.2	71.7	0.0	3.6	3.2	0.0	77.0	15.5
IFSI 10	19	13.8	66.7	0.0	8.4	1.8	0.0	76.7	15.0
IFSI 11	20	13.2	61.1	0.0	7.7	3.9	0.0	77.0	17.0
IFSI 12	21	20.5	51.1	0.0	3.6	0.9	0.0	78.7	15.4
IFSI 13	22	21.8	73.9	0.0	2.3	3.1	0.0	72.7	14.0
JACQUES W200	23	13.6	68.9	0.0	2.4	1.5	0.0	74.0	14.3
JACQUES W300	24	22.0	75.0	0.0	6.5	0.0	0.0	78.3	16.6
JACQUES EXP 9110W	25	23.7	73.3	0.0	3.9	1.6	0.0	75.7	13.4
LYNKS SC-WM	26	13.6	60.0	0.0	7.5	3.8	0.0	73.3	14.0
LYNKS SC-WLA	27	22.0	55.6	0.0	5.6	0.9	0.0	79.3	20.0
MEACHAM'S MV78	28	18.2	57.2	0.0	5.0	2.1	0.0	78.7	18.0
MEACHAM'S MV88	29	12.9	58.3	0.0	4.8	3.9	0.0	76.7	15.7
MEACHAM'S MX50	30	17.5	76.7	0.0	11.2	3.0	0.0	79.3	15.8
MFA C4W	31	21.0	77.2	0.0	5.7	1.4	0.0	79.3	16.2
P-A-G SX 70W	32	28.8	78.3	0.0	6.4	1.4	0.0	78.7	16.3
P-A-G 644W	33	23.0	67.8	0.0	1.6	1.7	0.0	77.3	16.0
PIONEER BRAND EXP X5386	34	18.8	78.9	0.0	2.9	1.4	0.0	78.0	14.1
PRINCETON SX910	35	17.2	73.9	0.0	3.1	3.1	0.0	80.0	16.1
PRINCETON SP936	36	14.6	67.8	0.0	6.2	3.4	0.0	79.3	16.7
RING AROUND RA2602W	37	13.4	62.8	0.0	7.1	0.0	0.0	77.3	18.8
RING AROUND RA3605W	38	13.0	62.2	0.0	10.7	5.6	0.0	78.0	16.5
STURDY GROW SG903W	39	21.8	57.8	0.0	13.2	4.3	0.0	74.3	13.9
STURDY GROW SG921W	40	21.6	71.1	0.0	3.7	3.1	0.0	80.0	17.0

TABLE 6. CONTINUED.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %
STURDY GROW SG935W	41	12.8	69.4	0.0	12.8	2.4	0.0	78.0	17.6
STURDY GROW SG9641W	42	14.9	66.7	0.0	3.3	2.5	0.0	77.3	16.0
STURDY GROW SG9645W	43	19.5	68.9	0.0	6.3	1.8	0.0	78.7	17.3
STURDY GROW SG9649W	44	21.3	67.2	0.0	1.0	1.8	0.0	76.7	15.0
STURDY GROW SG9669W	45	9.6	68.3	0.0	4.1	2.5	0.0	76.3	17.0
STURDY GROW SG9677W	46	27.5	70.0	0.0	3.2	3.2	0.0	73.3	15.4
WHISNAND 75W	47	16.5	57.8	0.0	5.2	0.9	0.0	73.3	16.1
WHISNAND 77W	48	7.4	77.2	0.0	2.1	2.2	0.0	73.7	15.6
WHISNAND 79W	49	10.6	65.6	0.0	7.5	2.6	0.0	73.3	16.5
WHISNAND EXP 77-1W	50	13.3	58.3	0.0	6.6	2.7	0.0	74.3	17.2
WHISNAND EXP 77-2W	51	7.6	67.8	0.0	1.8	1.6	0.0	73.3	15.1
WHISNAND EXP 2W	52	12.2	72.2	0.0	3.0	2.3	0.0	72.7	14.1
WHISNAND EXP 91W	53	12.7	73.9	0.0	6.2	3.0	0.0	78.7	16.7
YELLOW CHECK B73 X MO17	54	22.7	73.9	0.0	4.1	2.9	0.0	73.7	14.8
YELLOW CHECK MO17 X N28	55	15.1	75.0	0.0	0.7	4.4	0.0	75.0	14.5
YELLOW CHECK US13	56	13.2	63.9	0.0	9.5	4.0	0.0	74.0	13.3
MEAN	.	16.8	69.3	.	4.8	2.3	.	76.7	16.0
LSD 0.05	.	10.5	14.2	.	6.3	.	.	2.3	2.9
CV%	.	38.1	12.6	.	80.4	.	.	1.8	11.2

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 7. YIELD AND AGRONOMIC DATA OBTAINED FROM THE 1980 WHITE MAIZE VARIETY TRIAL AT SILVER LAKE, KS.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %
ACCO UC1800W	1	52.2	70.8	0.0	5.1	0.7	0.0	78.0	22.7
ACCO UC2100W	2	60.2	72.4	0.0	3.9	0.0	0.0	81.3	23.2
CARGILL 9SW	3	57.0	72.9	0.0	1.9	0.0	0.0	80.7	27.3
DEKALB XL390B	4	54.0	56.2	0.0	2.4	0.0	0.0	79.7	24.6
FUNK G-4747W-1	5	47.6	72.4	0.0	0.0	0.0	0.0	80.7	25.5
FUNK G-4787W	6	55.6	69.3	0.0	2.3	0.0	0.0	81.3	23.9
GOLDEN HARVEST H-2644W	7	45.0	64.6	0.0	2.5	0.0	0.0	76.7	21.4
GOLDEN HARVEST H-2660W	8	43.2	75.5	0.0	1.4	0.0	0.0	80.3	23.8
GOLDEN HARVEST H-2665W	9	42.1	60.9	0.0	1.9	0.0	0.0	79.7	24.0
IFSI 1	10	60.6	75.0	0.0	3.1	0.0	0.0	78.0	25.1
IFSI 2	11	48.2	68.2	0.0	0.8	0.0	0.0	78.0	24.0
IFSI 3	12	57.4	74.5	0.0	4.2	0.0	0.0	77.0	19.5
IFSI 4	13	50.3	62.5	0.0	1.5	0.0	0.0	78.7	25.3
IFSI 5	14	53.0	77.6	0.0	4.0	0.0	0.0	78.0	23.6
IFSI 6	15	46.7	72.4	0.0	1.5	0.6	0.0	78.0	20.8
IFSI 7	16	56.4	76.0	0.0	3.7	0.0	0.0	79.0	25.5
IFSI 8	17	62.9	76.6	0.0	0.0	0.0	0.0	80.3	27.7
IFSI 9	18	50.8	78.6	0.0	0.0	0.6	0.0	79.7	24.1
IFSI 10	19	43.8	71.4	0.0	3.7	0.0	0.0	79.7	21.4
IFSI 11	20	49.6	75.5	0.0	4.6	0.0	0.0	81.0	24.1
IFSI 12	21	40.8	64.6	0.0	3.2	0.0	0.0	80.0	24.2
IFSI 13	22	49.2	68.7	0.0	1.6	0.0	0.0	78.0	22.2
JACQUES W200	23	31.0	72.9	0.0	3.0	0.0	0.0	76.7	20.8
JACQUES W300	24	38.6	70.3	0.0	2.1	0.0	0.0	81.0	23.9
JACQUES EXP 9110W	25	54.1	71.9	0.0	4.7	0.0	0.0	78.7	22.0
LYNKS SC-WM	26	52.9	66.1	0.0	5.9	1.4	0.0	78.0	21.9
LYNKS SC-WLA	27	44.4	77.6	0.0	2.6	0.0	0.0	80.0	25.8
MEACHAM'S MV78	28	41.8	71.9	0.0	3.7	0.8	0.0	80.0	26.0
MEACHAM'S MV88	29	51.9	65.6	0.0	4.3	0.0	0.0	79.7	23.3
MEACHAM'S MX50	30	60.2	68.7	0.0	10.8	0.7	0.0	80.3	23.7
MFA C4W	31	59.9	74.5	0.0	9.1	1.4	0.0	80.3	24.6
P-A-G SX 70W	32	82.1	82.8	0.0	4.5	0.0	0.0	80.3	26.3
P-A-G 644W	33	51.2	69.3	0.0	2.2	0.7	0.0	81.3	22.8
PIONEER BRAND EXP X5386	34	58.0	71.9	0.0	0.7	0.0	0.0	76.7	23.0
PRINCETON SX910	35	44.9	75.0	0.0	0.8	0.8	0.0	79.0	24.3
PRINCETON SP936	36	52.9	67.7	0.0	6.7	0.0	0.0	80.0	24.1
RING AROUND RA2602W	37	48.6	80.2	0.0	2.5	0.0	0.0	78.0	21.9
RING AROUND RA3605W	38	58.4	76.6	0.0	6.2	0.0	0.0	78.7	23.4
STURDY GROW SG908W	39	56.6	74.0	0.0	11.0	0.0	0.0	79.0	22.8
STURDY GROW SG921W	40	57.3	70.8	0.0	1.4	1.4	0.0	80.0	26.4

TABLE 7. CONTINUED.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %
STURDY GROW SG935W	41	53.1	75.5	0.0	5.5	0.0	0.0	80.7	23.7
STURDY GROW SG9641W	42	50.1	70.3	0.0	1.0	0.0	0.0	79.3	23.8
STURDY GROW SG9645W	43	51.9	75.0	0.0	2.5	0.0	0.0	79.7	24.7
STURDY GROW SG9649W	44	51.9	74.0	0.0	2.2	0.0	0.0	78.0	21.2
STURDY GROW SG9669W	45	52.2	70.3	0.0	1.4	0.0	0.0	78.0	21.1
STURDY GROW SG9677W	46	42.6	80.2	0.0	1.9	0.0	0.0	76.7	19.6
WHISNAND 75W	47	45.8	75.5	0.0	0.7	0.0	0.0	76.7	20.5
WHISNAND 77W	48	55.5	70.8	0.0	2.8	0.0	0.0	76.3	19.4
WHISNAND 79W	49	15.4	81.8	0.0	3.2	0.0	0.0	76.7	21.4
WHISNAND EXP 77-1W	50	50.2	74.5	0.0	4.2	0.0	0.0	76.7	19.2
WHISNAND EXP 77-2W	51	30.8	72.9	0.0	0.0	0.0	0.0	78.0	19.9
WHISNAND EXP 2W	52	50.0	65.6	0.0	2.3	0.0	0.0	76.0	17.7
WHISNAND EXP 91W	53	51.7	66.7	0.0	4.0	0.8	0.0	80.7	24.8
YELLOW CHECK B73 X MO17	54	45.0	69.8	0.0	0.7	0.0	0.0	76.0	19.2
YELLOW CHECK MO17 X N28	55	46.2	66.1	0.0	2.2	0.8	0.0	77.7	21.7
YELLOW CHECK US13	56	40.0	70.8	0.0	9.6	0.0	0.0	80.0	17.6
MEAN	.	50.1	71.9	.	3.2	0.2	.	78.9	23.0
LSD 0.05	.	18.0	.	.	4.8	.	.	2.7	3.4
CV%	.	22.0	.	.	91.7	.	.	2.1	9.1

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 8. YIELD AND AGRONOMIC DATA OBTAINED FROM THE 1980 WHITE MAIZE VARIETY TRIAL AT TROY, KS.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %
ACCO UC1800W	1	35.3	0.0	0.0	0.0	0.0	0.0	0.0	18.7
ACCO UC2100W	2	34.9	0.0	0.0	0.0	0.0	0.0	0.0	21.5
CARGILL 99W	3	17.2	0.0	0.0	0.0	0.0	0.0	0.0	22.1
DEKALB XL390B	4	16.9	0.0	0.0	0.0	0.0	0.0	0.0	20.9
FUNK G-4747W-1	5	23.4	0.0	0.0	0.0	0.0	0.0	0.0	18.4
FUNK G-4787W	6	17.2	0.0	0.0	0.0	0.0	0.0	0.0	20.3
GOLDEN HARVEST H-2644W	7	19.5	0.0	0.0	0.0	0.0	0.0	0.0	18.0
GOLDEN HARVEST H-2660W	8	21.5	0.0	0.0	0.0	0.0	0.0	0.0	22.4
GOLDEN HARVEST H-2665W	9	25.4	0.0	0.0	0.0	0.0	0.0	0.0	21.0
IFSI 1	10	34.1	0.0	0.0	0.0	0.0	0.0	0.0	21.1
IFSI 2	11	16.2	0.0	0.0	0.0	0.0	0.0	0.0	19.8
IFSI 3	12	33.8	0.0	0.0	0.0	0.0	0.0	0.0	16.1
IFSI 4	13	22.4	0.0	0.0	0.0	0.0	0.0	0.0	20.9
IFSI 5	14	37.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7
IFSI 6	15	18.2	0.0	0.0	0.0	0.0	0.0	0.0	19.4
IFSI 7	16	30.6	0.0	0.0	0.0	0.0	0.0	0.0	21.9
IFSI 8	17	23.5	0.0	0.0	0.0	0.0	0.0	0.0	20.8
IFSI 9	18	26.2	0.0	0.0	0.0	0.0	0.0	0.0	20.2
IFSI 10	19	9.4	0.0	0.0	0.0	0.0	0.0	0.0	20.0
IFSI 11	20	30.6	0.0	0.0	0.0	0.0	0.0	0.0	20.5
IFSI 12	21	23.0	0.0	0.0	0.0	0.0	0.0	0.0	20.1
IFSI 13	22	34.2	0.0	0.0	0.0	0.0	0.0	0.0	16.2
JACQUES W200	23	14.3	0.0	0.0	0.0	0.0	0.0	0.0	17.9
JACQUES W300	24	17.8	0.0	0.0	0.0	0.0	0.0	0.0	20.8
JACQUES EXP 9110W	25	20.8	0.0	0.0	0.0	0.0	0.0	0.0	18.1
LYNKS SC-WM	26	31.7	0.0	0.0	0.0	0.0	0.0	0.0	15.8
LYNKS SC-WLA	27	24.0	0.0	0.0	0.0	0.0	0.0	0.0	21.1
MEACHAM'S MV78	28	38.1	0.0	0.0	0.0	0.0	0.0	0.0	18.9
MEACHAM'S MV88	29	36.3	0.0	0.0	0.0	0.0	0.0	0.0	20.3
MEACHAM'S MX50	30	17.9	0.0	0.0	0.0	0.0	0.0	0.0	20.3
MFA C4W	31	34.4	0.0	0.0	0.0	0.0	0.0	0.0	20.0
P-A-G SX 70W	32	35.8	0.0	0.0	0.0	0.0	0.0	0.0	20.6
P-A-G 644W	33	29.2	0.0	0.0	0.0	0.0	0.0	0.0	19.7
PIONEER BRAND EXP X5386	34	30.4	0.0	0.0	0.0	0.0	0.0	0.0	19.0
PRINCETON SX910	35	20.1	0.0	0.0	0.0	0.0	0.0	0.0	21.0
PRINCETON SP936	36	33.1	0.0	0.0	0.0	0.0	0.0	0.0	19.7
RING AROUND RA2602W	37	30.7	0.0	0.0	0.0	0.0	0.0	0.0	19.4
RING AROUND RA3605W	38	16.2	0.0	0.0	0.0	0.0	0.0	0.0	19.1
STURDY GROW SG908W	39	27.7	0.0	0.0	0.0	0.0	0.0	0.0	17.2
STURDY GROW SG921W	40	23.2	0.0	0.0	0.0	0.0	0.0	0.0	20.6

TABLE 8. CONTINUED.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %
STURDY GROW SG935W	41	26.8	0.0	0.0	0.0	0.0	0.0	0.0	19.6
STURDY GROW SG9641W	42	14.3	0.0	0.0	0.0	0.0	0.0	0.0	21.2
STURDY GROW SG9645W	43	20.6	0.0	0.0	0.0	0.0	0.0	0.0	20.0
STURDY GROW SG9649W	44	31.7	0.0	0.0	0.0	0.0	0.0	0.0	17.5
STURDY GROW SG9669W	45	11.1	0.0	0.0	0.0	0.0	0.0	0.0	18.6
STURDY GROW SG9677W	46	32.9	0.0	0.0	0.0	0.0	0.0	0.0	16.0
WHISNAND 75W	47	21.7	0.0	0.0	0.0	0.0	0.0	0.0	17.1
WHISNAND 77W	48	35.7	0.0	0.0	0.0	0.0	0.0	0.0	15.9
WHISNAND 79W	49	4.6	0.0	0.0	0.0	0.0	0.0	0.0	18.2
WHISNAND EXP 77-1W	50	31.2	0.0	0.0	0.0	0.0	0.0	0.0	16.4
WHISNAND EXP 77-2W	51	12.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4
WHISNAND EXP 2W	52	32.1	0.0	0.0	0.0	0.0	0.0	0.0	16.6
WHISNAND EXP 91W	53	31.0	0.0	0.0	0.0	0.0	0.0	0.0	21.4
YELLOW CHECK B73 X MO17	54	27.3	0.0	0.0	0.0	0.0	0.0	0.0	18.5
YELLOW CHECK MO17 X N28	55	39.0	0.0	0.0	0.0	0.0	0.0	0.0	18.6
YELLOW CHECK US13	56	24.9	0.0	0.0	0.0	0.0	0.0	0.0	18.4
MEAN	.	25.5	.	.	.	.	.	.	19.3
LSD 0.05	.	19.4	.	.	.	.	.	.	2.5
CV%	.	46.6	.	.	.	.	.	.	8.0

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 9. YIELD AND AGRONOMIC DATA OBTAINED FROM THE 1980 WHITE MAIZE VARIETY TRIAL AT LEXINGTON, KY.

ENTRY NAME	NO.	YLD Q/HA	STAND %+	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %
ACCO UC1800W	1	84.4	100.0	0.5	27.1	0.5	133.3	69.0	15.4
ACCO UC2100W	2	83.6	100.0	2.6	13.0	0.0	123.3	73.3	19.4
CARGILL 99N	3	97.4	100.0	2.1	10.9	0.0	125.0	75.7	19.0
DEKALB XL390B	4	90.3	100.0	0.5	21.9	0.0	135.0	73.3	18.0
FUNK G-4747W-1	5	89.1	100.0	0.0	38.0	0.0	126.7	73.0	19.5
FUNK G-4787W	6	80.2	100.0	0.0	18.2	0.0	136.7	76.3	16.8
GOLDEN HARVEST H-2644W	7	78.4	100.0	0.5	20.8	1.6	105.0	66.0	15.5
GOLDEN HARVEST H-2660W	8	96.2	100.0	0.0	22.4	1.6	125.0	72.3	18.8
GOLDEN HARVEST H-2665W	9	101.0	100.0	1.0	24.5	0.0	125.0	72.3	18.3
IFSI 1	10	82.6	100.0	0.0	59.0	0.5	116.7	68.0	20.1
IFSI 2	11	88.4	100.0	9.9	25.0	0.0	131.7	69.3	15.7
IFSI 3	12	89.9	100.0	0.0	31.2	0.0	125.0	66.3	16.4
IFSI 4	13	96.3	100.0	0.0	8.9	1.0	121.7	70.3	21.4
IFSI 5	14	81.5	100.0	1.0	31.2	0.0	110.0	67.0	19.0
IFSI 6	15	97.3	100.0	1.0	27.1	0.5	128.3	69.3	18.3
IFSI 7	16	83.1	100.0	0.0	34.9	0.0	125.0	71.0	21.0
IFSI 8	17	83.6	100.0	0.0	43.7	2.1	116.7	73.7	19.8
IFSI 9	18	90.6	100.0	0.0	17.2	0.0	130.0	70.7	18.4
IFSI 10	19	85.8	100.0	2.1	39.6	1.0	126.7	70.0	17.4
IFSI 11	20	104.1	100.0	0.0	26.0	0.5	128.3	72.0	16.3
IFSI 12	21	83.1	100.0	1.0	21.4	0.0	131.7	74.7	19.3
IFSI 13	22	86.1	100.0	0.0	9.9	1.0	115.0	65.0	15.8
JACQUES W200	23	63.8	100.0	4.7	26.6	0.0	128.3	68.3	15.3
JACQUES W300	24	82.9	100.0	0.0	17.7	1.6	133.3	74.7	18.6
JACQUES EXP 9110W	25	79.5	100.0	0.0	32.3	0.5	128.3	68.7	17.6
LYNKS SC-WM	26	74.3	100.0	0.0	46.4	1.6	123.3	68.3	17.6
LYNKS SC-WLA	27	90.4	100.0	0.0	24.5	0.0	125.0	74.0	19.2
MEACHAM'S MV78	28	94.3	100.0	0.0	19.3	0.0	131.7	73.3	18.5
MEACHAM'S MV88	29	68.5	100.0	1.0	38.0	0.0	130.0	72.7	19.8
MEACHAM'S MX50	30	84.7	100.0	2.6	44.3	0.0	120.0	72.7	16.3
MFA C4W	31	68.2	100.0	1.0	51.6	0.0	123.3	72.3	19.2
P-A-G SX 70W	32	65.5	100.0	0.0	63.5	0.0	113.3	73.0	19.8
P-A-G 644W	33	88.1	100.0	0.0	23.4	0.0	128.3	76.3	17.8
PIONEER BRAND EXP X5386	34	100.6	100.0	2.6	14.1	0.0	133.3	75.0	15.0
PRINCETON SX910	35	98.1	100.0	0.0	36.5	0.0	136.7	71.7	18.2
PRINCETON SP936	36	93.6	100.0	1.0	16.1	1.0	133.3	73.3	18.6
RING AROUND RA2602W	37	98.8	100.0	0.0	26.0	0.5	131.7	73.3	17.5
RING AROUND RA3605W	38	97.0	100.0	0.0	19.8	0.0	135.0	73.7	19.4
STURDY GROW SG908W	39	94.2	100.0	0.0	15.6	0.5	126.7	68.3	15.3
STURDY GROW SG921W	40	91.6	100.0	0.0	8.9	0.0	130.0	73.7	17.9

TABLE 9. CONTINUED.

ENTRY NAME	NO.	YLD Q/HA	STAND %+	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %
STURDY GROW SG935W	41	102.0	100.0	0.0	30.2	0.5	136.7	75.0	19.0
STURDY GROW SG9641W	42	95.5	100.0	0.5	9.4	1.0	130.0	71.7	19.1
STURDY GROW SG9645W	43	101.6	100.0	0.0	12.5	0.0	116.7	70.0	18.6
STURDY GROW SG9649W	44	88.3	100.0	0.0	16.1	0.0	118.3	68.7	16.8
STURDY GROW SG9669W	45	83.9	100.0	3.1	20.8	0.5	113.3	69.0	18.6
STURDY GROW SG9677W	46	71.6	100.0	0.0	20.8	0.5	108.3	64.7	16.2
WHISNAND 75W	47	68.6	100.0	0.0	44.3	1.6	123.3	69.0	17.0
WHISNAND 77W	48	81.3	100.0	0.5	35.9	0.0	121.7	67.3	15.7
WHISNAND 79W	49	66.4	100.0	0.5	36.5	1.0	128.3	67.3	12.7
WHISNAND EXP 77-1W	50	86.2	100.0	0.0	31.2	0.5	126.7	68.3	16.8
WHISNAND EXP 77-2W	51	63.6	100.0	4.7	37.5	0.5	130.0	67.0	15.7
WHISNAND EXP 2W	52	80.3	100.0	1.0	32.8	0.0	123.3	69.3	16.5
WHISNAND EXP 91W	53	88.6	100.0	1.6	26.6	1.0	130.0	73.0	19.7
YELLOW CHECK B73 X MO17	54	76.4	100.0	0.0	57.3	1.0	120.0	66.0	15.8
YELLOW CHECK MO17 X N28	55	70.1	100.0	0.0	54.2	0.0	120.0	67.7	20.0
YELLOW CHECK US13	56	55.0	100.0	0.5	61.5	0.0	121.7	67.7	15.7
MEAN	.	85.1	100.0	0.9	28.8	0.4	125.4	70.8	17.8
LSD 0.05	.	23.4	.	3.8	31.2	.	10.5	2.3	2.8
CV%	.	16.8	.	274.2	66.3	.	5.1	2.0	9.6

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.
+ STAND SET TO 100.0% PER COOPERATOR. NO ACTUAL COUNTS GIVEN.

TABLE 10. YIELD AND AGRONOMIC DATA OBTAINED FROM THE 1980 WHITE MAIZE VARIETY TRIAL AT NOVELTY, MO.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %
ACCO UC1800W	1	19.7	96.7	6.3	30.5	0.0	120.0	0.0	39.5
ACCO UC2100W	2	17.1	95.6	28.0	2.8	0.0	106.7	0.0	39.1
CARGILL 99W	3	15.1	97.8	36.1	14.8	0.0	113.3	0.0	37.8
DEKALB XL390B	4	17.0	96.1	14.9	13.5	0.0	116.7	0.0	39.5
FUNK G-4747W-1	5	13.3	98.9	10.7	8.9	0.0	120.0	0.0	37.9
FUNK G-4787W	6	8.3	95.0	36.8	18.7	0.0	123.3	0.0	39.5
GOLDEN HARVEST H-2644W	7	24.3	89.4	21.9	16.7	0.0	113.3	0.0	37.5
GOLDEN HARVEST H-2660W	8	14.6	93.3	16.0	21.4	0.0	120.0	0.0	38.6
GOLDEN HARVEST H-2665W	9	15.6	96.7	12.3	9.8	0.0	110.0	0.0	39.5
IFSI 1	10	20.7	97.8	1.7	10.2	0.0	103.3	0.0	39.5
IFSI 2	11	15.1	98.3	28.1	20.2	0.0	113.3	0.0	37.0
IFSI 3	12	21.1	96.7	1.1	32.3	0.0	126.7	0.0	37.2
IFSI 4	13	34.3	95.0	3.8	9.3	0.0	103.3	0.0	39.5
IFSI 5	14	12.9	99.4	17.4	17.9	0.0	95.0	0.0	39.2
IFSI 6	15	14.2	100.0	3.9	9.4	0.0	123.3	0.0	35.9
IFSI 7	16	25.3	98.3	1.7	4.5	0.0	120.0	0.0	39.5
IFSI 8	17	22.8	95.0	1.7	6.1	0.0	111.7	0.0	39.2
IFSI 9	18	19.2	95.6	43.6	7.5	0.0	116.7	0.0	39.5
IFSI 10	19	12.0	91.1	14.3	13.5	0.0	126.7	0.0	36.2
IFSI 11	20	12.6	96.7	22.7	9.0	0.0	116.7	0.0	39.5
IFSI 12	21	14.9	93.3	20.4	13.8	0.0	116.7	0.0	39.6
IFSI 13	22	23.2	95.6	1.2	12.5	0.0	96.7	0.0	38.9
JACQUES W200	23	14.9	91.1	6.6	26.4	0.0	106.7	0.0	37.9
JACQUES W300	24	13.6	89.4	36.1	13.0	0.0	126.7	0.0	39.5
JACQUES EXP 9110W	25	18.1	90.6	3.2	30.3	0.0	126.7	0.0	39.0
LYNKS SC-WM	26	22.4	98.3	13.3	7.9	0.0	120.0	0.0	38.0
LYNKS SC-WLA	27	15.0	99.4	17.4	15.1	0.0	113.3	0.0	37.2
MEACHAM'S MV78	28	13.2	81.7	21.6	10.0	0.0	116.7	0.0	36.6
MEACHAM'S MV88	29	19.8	98.9	24.3	10.1	0.0	123.3	0.0	36.9
MEACHAM'S MX50	30	31.2	98.9	20.3	6.7	0.0	115.0	0.0	39.5
MFA C4W	31	34.1	95.6	22.8	12.1	0.0	106.7	0.0	39.5
P-A-G SX 70W	32	32.8	95.0	36.8	7.6	0.0	106.7	0.0	39.5
P-A-G 644W	33	29.0	98.3	12.6	14.1	0.0	125.0	0.0	39.5
PIONEER BRAND EXP X5386	34	18.6	91.1	15.2	16.4	0.0	131.7	0.0	38.5
PRINCETON SX910	35	16.6	99.4	20.2	4.4	0.0	116.7	0.0	36.7
PRINCETON SP936	36	13.7	97.8	21.7	14.0	0.0	123.3	0.0	37.5
RING AROUND RA2602W	37	11.4	100.0	30.6	10.0	0.0	113.3	0.0	39.6
RING AROUND RA3605W	38	10.2	97.2	6.2	23.3	0.0	113.3	0.0	38.2
STURDY GROW SG908W	39	16.6	98.3	5.6	28.5	0.0	123.3	0.0	36.5
STURDY GROW SG921W	40	18.6	99.4	25.8	4.5	0.0	105.0	0.0	39.5

TABLE 10. CONTINUED.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %
STURDY GROW SG935W	41	16.4	98.3	3.4	24.7	0.0	116.7	0.0	39.5
STURDY GROW SG9641W	42	19.6	98.3	12.4	10.7	0.0	116.7	0.0	36.6
STURDY GROW SG9645W	43	19.1	100.0	20.6	28.9	0.0	91.7	0.0	37.4
STURDY GROW SG9649W	44	13.3	95.0	17.5	8.6	0.0	106.7	0.0	39.5
STURDY GROW SG9669W	45	15.6	100.0	15.0	9.4	0.0	106.7	0.0	38.9
STURDY GROW SG9677W	46	14.0	94.4	15.5	15.6	0.0	118.3	0.0	38.4
WHISNAND 75W	47	21.2	97.8	21.8	14.6	0.0	126.7	0.0	39.0
WHISNAND 77W	48	26.7	100.0	7.8	26.7	0.0	120.0	0.0	36.5
WHISNAND 79W	49	10.8	93.3	27.0	19.3	0.0	115.0	0.0	35.5
WHISNAND EXP 77-1W	50	21.1	98.3	11.4	20.3	0.0	123.3	0.0	38.1
WHISNAND EXP 77-2W	51	8.8	87.2	34.1	10.3	0.0	110.0	0.0	32.7
WHISNAND EXP 2W	52	20.3	90.0	21.1	20.5	0.0	123.3	0.0	37.0
WHISNAND EXP 91W	53	16.5	93.9	16.8	4.7	0.0	113.3	0.0	39.5
YELLOW CHECK B73 X M017	54	24.3	94.4	4.7	17.7	0.0	116.7	0.0	36.0
YELLOW CHECK M017 X N28	55	39.4	98.9	0.6	14.0	0.0	110.0	0.0	38.4
YELLOW CHECK US13	56	18.5	97.2	38.4	23.2	0.0	113.3	0.0	36.4
MEAN	.	18.7	95.9	17.0	14.8	.	115.3	.	38.2
LSD 0.05	.	7.7	7.4	20.9	.	.	15.5	.	.
CV%	.	25.1	4.7	75.1	.	.	8.2	.	.

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 11. YIELD AND AGRONOMIC DATA OBTAINED FROM THE 1980 WHITE MAIZE VARIETY TRIAL AT KNOXVILLE, TN.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM+	DAYS FLW+	MOIST %
ACCO UC1800W	1	60.4	95.6	1.2	12.1	0.0	108.7	74.7	19.0
ACCO UC2100W	2	54.4	88.9	1.1	2.5	0.0	99.7	76.0	22.8
CARGILL 99W	3	58.4	93.3	2.4	28.6	0.0	110.0	80.7	25.1
DEKALB XL390B	4	47.5	94.4	0.0	19.6	0.0	120.7	77.7	21.4
FUNK G-4747W-1	5	69.9	102.2	0.0	6.1	0.0	99.7	77.0	21.6
FUNK G-4787W	6	45.3	104.4	0.0	5.3	0.0	113.0	81.0	21.7
GOLDEN HARVEST H-2644W	7	52.6	94.4	1.4	10.1	0.0	85.0	72.0	18.3
GOLDEN HARVEST H-2660W	8	72.0	96.7	1.2	4.6	0.0	110.0	77.0	22.7
GOLDEN HARVEST H-2665W	9	46.4	87.8	0.0	3.9	0.0	114.7	78.7	21.2
IFSI 1	10	65.0	94.4	0.0	3.4	0.0	101.0	74.0	22.0
IFSI 2	11	44.4	88.9	2.6	2.6	0.0	113.0	74.7	21.4
IFSI 3	12	50.6	101.1	0.0	2.2	0.0	100.7	73.0	17.5
IFSI 4	13	59.2	92.2	0.0	3.0	0.0	92.7	74.7	23.2
IFSI 5	14	75.1	93.3	0.0	2.4	0.0	88.0	73.0	20.7
IFSI 6	15	57.7	96.7	0.0	4.7	0.0	102.7	74.7	20.0
IFSI 7	16	60.1	100.0	0.0	2.2	0.0	99.7	76.7	23.4
IFSI 8	17	62.9	100.0	0.0	0.0	0.0	102.7	76.0	25.9
IFSI 9	18	62.0	95.6	2.4	3.7	0.0	99.7	75.0	20.9
IFSI 10	19	58.7	98.9	3.4	1.1	0.0	110.0	75.0	19.6
IFSI 11	20	57.4	98.9	5.5	1.1	0.0	105.7	77.7	22.0
IFSI 12	21	53.9	95.6	0.0	0.0	0.0	111.7	78.0	21.5
IFSI 13	22	47.2	98.9	0.0	1.1	0.0	89.7	73.0	17.5
JACQUES W200	23	52.9	95.6	4.9	5.6	0.0	107.0	74.7	17.7
JACQUES W300	24	59.8	84.4	0.0	1.2	0.0	113.0	77.7	21.8
JACQUES EXP 9110W	25	49.1	102.2	2.3	5.4	0.0	99.7	74.0	18.6
LYNKS SC-WM	26	57.9	95.6	3.5	11.5	0.0	101.0	74.7	18.1
LYNKS SC-WLA	27	65.0	97.8	4.7	4.6	0.0	108.7	76.7	21.5
MEACHAM'S MV78	28	54.8	94.4	1.2	1.1	0.0	102.7	76.0	21.4
MEACHAM'S MV88	29	47.9	91.1	2.6	4.9	0.0	107.0	78.0	22.1
MEACHAM'S MX50	30	57.8	87.8	11.7	16.2	0.0	104.0	75.0	21.3
MFA C4W	31	61.7	91.1	14.3	28.9	0.0	91.0	77.0	22.0
P-A-G SX 70W	32	50.9	92.2	1.1	32.3	0.0	89.7	77.7	23.4
P-A-G 644W	33	56.8	96.7	3.6	13.2	0.0	108.7	78.7	19.7
PIONEER BRAND EXP X5386	34	48.6	96.7	2.4	3.4	0.0	105.7	77.0	19.6
PRINCETON SX910	35	68.0	97.8	1.2	2.3	0.0	111.7	75.7	22.0
PRINCETON SP936	36	54.6	96.7	1.2	2.3	0.0	111.7	78.0	21.2
RING AROUND RA2602W	37	62.9	104.4	1.1	3.3	0.0	104.0	77.7	22.7
RING AROUND RA3605W	38	53.2	88.9	1.4	4.9	0.0	119.0	77.7	22.5
STURDY GROW SG908W	39	48.8	97.8	0.0	3.4	0.0	110.0	73.0	18.3
STURDY GROW SG921W	40	54.4	98.9	4.4	0.0	0.0	105.7	75.0	22.9

TABLE 11. CONTINUED.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM+	DAYS FLW+	MOIST %
STURDY GROW SG935W	41	47.5	94.4	0.0	2.3	0.0	110.0	78.0	21.6
STURDY GROW SG9641W	42	61.8	97.8	0.0	19.5	0.0	91.0	75.7	22.3
STURDY GROW SG9645W	43	63.3	102.2	0.0	4.3	0.0	82.0	75.0	21.6
STURDY GROW SG9649W	44	51.0	97.8	2.4	2.1	0.0	97.7	74.7	19.1
STURDY GROW SG9669W	45	54.9	98.9	0.0	0.0	0.0	93.0	74.7	21.3
STURDY GROW SG9677W	46	50.0	97.8	0.0	1.1	0.0	94.0	73.7	18.9
WHISNAND 75W	47	58.3	93.9	1.1	21.3	0.0	110.0	73.0	18.7
WHISNAND 77W	48	55.4	92.2	2.4	12.9	0.0	101.0	74.0	18.0
WHISNAND 79W	49	41.3	88.9	5.1	8.8	0.0	96.0	73.0	16.0
WHISNAND EXP 77-1W	50	56.1	97.8	1.1	11.3	0.0	105.7	74.0	17.7
WHISNAND EXP 77-2W	51	48.3	97.8	2.3	11.3	0.0	104.0	73.7	18.4
WHISNAND EXP 2W	52	55.3	93.3	3.1	14.7	0.0	98.0	74.0	18.2
WHISNAND EXP 91W	53	64.6	94.4	8.9	1.3	0.0	105.7	77.0	22.5
YELLOW CHECK B73 X MO17	54	47.4	94.4	1.1	1.2	0.0	99.7	73.7	17.5
YELLOW CHECK MO17 X N28	55	58.1	96.7	1.1	27.9	0.0	92.7	72.7	19.7
YELLOW CHECK US13	56	44.2	88.9	2.6	15.0	0.0	101.0	73.0	17.4
MEAN	.	55.8	95.6	2.0	7.5	.	102.9	75.6	20.6
LSD 0.05	.	11.1	.	5.7	12.1	.	12.0	1.6	0.7
CV%	.	12.2	.	172.5	98.5	.	5.8	1.0	2.1

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.
+ DATA OBSERVED IN TWO REPLICATIONS ONLY.

TABLE 12. YIELD AND AGRONOMIC DATA OBTAINED FROM THE 1980 WHITE MAIZE VARIETY TRIAL AT UNION CITY, TN.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %
ACCO UC1800W	1	71.1	86.5	0.7	4.2	0.0	0.0	0.0	15.7
ACCO UC2100W	2	69.9	100.0	0.0	2.1	0.0	0.0	0.0	18.4
CARGILL 99W	3	91.1	97.4	0.0	2.2	0.0	0.0	0.0	18.1
DEKALB XL390B	4	87.4	91.7	0.0	4.0	0.0	0.0	0.0	16.6
FUNK G-4747W-1	5	81.9	97.4	0.0	2.7	0.0	0.0	0.0	17.8
FUNK G-4787W	6	69.1	99.0	0.0	1.5	0.0	0.0	0.0	16.9
GOLDEN HARVEST H-2644W	7	73.3	89.1	0.0	0.0	0.0	0.0	0.0	15.6
GOLDEN HARVEST H-2660W	8	75.7	96.4	0.0	3.8	0.0	0.0	0.0	17.6
GOLDEN HARVEST H-2665W	9	80.9	78.1	0.0	3.2	0.0	0.0	0.0	16.8
IFSI 1	10	68.7	85.4	0.0	3.5	0.0	0.0	0.0	16.6
IFSI 2	11	70.2	93.7	0.0	1.7	0.0	0.0	0.0	17.0
IFSI 3	12	64.9	88.0	0.0	2.1	0.0	0.0	0.0	16.0
IFSI 4	13	71.7	94.8	0.0	3.9	0.0	0.0	0.0	16.8
IFSI 5	14	63.5	97.4	0.0	1.7	0.0	0.0	0.0	16.9
IFSI 6	15	82.4	94.3	0.0	1.1	0.0	0.0	0.0	16.1
IFSI 7	16	73.8	92.2	0.0	0.0	0.0	0.0	0.0	16.5
IFSI 8	17	87.0	99.0	0.0	0.5	0.0	0.0	0.0	18.0
IFSI 9	18	83.0	94.3	0.0	3.3	0.0	0.0	0.0	16.7
IFSI 10	19	67.1	85.9	0.0	1.9	0.0	0.0	0.0	15.3
IFSI 11	20	71.4	87.5	0.0	2.6	0.0	0.0	0.0	16.6
IFSI 12	21	64.1	94.8	0.6	1.1	0.0	0.0	0.0	17.2
IFSI 13	22	68.8	95.3	0.0	1.6	0.0	0.0	0.0	15.6
JACQUES W200	23	69.6	81.2	0.0	2.3	0.0	0.0	0.0	15.0
JACQUES W300	24	68.7	93.2	0.0	2.2	0.0	0.0	0.0	17.4
JACQUES EXP 9110W	25	73.3	78.6	0.0	7.3	0.0	0.0	0.0	15.7
LYNKS SC-WM	26	76.7	76.0	0.0	2.7	0.0	0.0	0.0	15.0
LYNKS SC-WLA	27	74.1	97.9	0.0	5.3	0.0	0.0	0.0	16.3
MEACHAM'S MV78	28	79.7	86.5	0.0	5.1	0.0	0.0	0.0	17.0
MEACHAM'S MV88	29	78.3	88.0	0.0	6.8	0.0	0.0	0.0	17.4
MEACHAM'S MX50	30	62.4	95.3	0.0	16.9	0.0	0.0	0.0	16.3
MFA C4W	31	62.5	95.3	0.0	10.8	0.0	0.0	0.0	15.8
P-A-G SX 70W	32	86.0	97.9	0.0	10.1	0.0	0.0	0.0	16.5
P-A-G 644W	33	80.4	99.5	0.0	5.8	0.0	0.0	0.0	15.9
PIONEER BRAND EXP X5386	34	80.2	97.9	0.0	2.6	0.0	0.0	0.0	15.6
PRINCETON SX910	35	78.8	101.6	0.5	3.6	0.0	0.0	0.0	17.2
PRINCETON SP936	36	80.5	93.2	0.0	2.7	0.0	0.0	0.0	16.3
RING AROUND RA2602W	37	87.0	95.3	0.0	0.0	0.0	0.0	0.0	17.1
RING AROUND RA3605W	38	73.8	92.2	0.0	1.7	0.0	0.0	0.0	17.1
STURDY GROW SG908W	39	71.9	87.5	0.0	2.4	0.0	0.0	0.0	15.6
STURDY GROW SG921W	40	80.6	95.3	0.0	2.3	0.0	0.0	0.0	17.7

TABLE 12. CONTINUED.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %
STURDY GROW SG935W	41	70.7	90.1	0.0	2.9	0.0	0.0	0.0	17.1
STURDY GROW SG9641W	42	80.6	82.8	0.0	1.9	0.0	0.0	0.0	17.3
STURDY GROW SG9645W	43	73.9	94.3	0.0	4.4	0.0	0.0	0.0	16.4
STURDY GROW SG9649W	44	90.5	91.7	0.0	3.4	0.0	0.0	0.0	15.4
STURDY GROW SG9669W	45	71.9	84.9	0.0	2.4	0.0	0.0	0.0	14.9
STURDY GROW SG9677W	46	84.9	94.3	0.0	3.3	0.0	0.0	0.0	15.7
WHISNAND 75W	47	65.0	99.5	0.0	8.9	0.0	0.0	0.0	14.9
WHISNAND 77W	48	79.8	93.7	0.0	1.7	0.0	0.0	0.0	15.2
WHISNAND 79W	49	66.9	92.2	0.0	5.1	0.0	0.0	0.0	14.5
WHISNAND EXP 77-1W	50	63.6	97.9	0.0	5.3	0.0	0.0	0.0	15.3
WHISNAND EXP 77-2W	51	70.7	89.6	0.0	4.6	0.0	0.0	0.0	15.1
WHISNAND EXP 2W	52	82.6	82.8	0.0	6.5	0.0	0.0	0.0	14.9
WHISNAND EXP 91W	53	88.0	90.1	0.0	1.8	0.0	0.0	0.0	17.8
YELLOW CHECK B73 X MO17	54	79.9	89.1	0.0	1.6	0.0	0.0	0.0	14.9
YELLOW CHECK MO17 X N28	55	77.4	88.5	0.0	0.5	0.0	0.0	0.0	15.5
YELLOW CHECK US13	56	63.7	96.9	0.0	6.5	0.0	0.0	0.0	14.9
MEAN	.	75.2	91.9	0.0	3.6	.	.	.	16.3
LSD 0.05	.	13.3	11.9	.	5.2	.	.	.	0.9
CV%	.	10.8	7.9	.	89.0	.	.	.	3.5

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 13. YIELD AND AGRONOMIC DATA OBTAINED FROM THE 1980 WHITE MAIZE VARIETY TRIAL AT TIOGA, TX.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %
ACCO UC1800W	1	42.7	79.2	0.0	0.0	0.0	0.0	82.0	12.6
ACCO UC2100W	2	38.1	80.4	0.0	0.0	0.0	0.0	85.7	16.0
CARGILL 99W	3	29.3	85.7	0.0	0.0	0.0	0.0	89.3	15.3
DEKALB XL390B	4	41.0	89.9	0.0	1.6	0.0	0.0	87.3	12.5
FUNK G-4747W-1	5	36.5	87.5	0.0	1.9	0.0	0.0	86.7	18.2
FUNK G-4787W	6	37.5	85.1	0.0	0.0	0.0	0.0	88.7	17.0
GOLDEN HARVEST H-2644W	7	43.7	77.4	0.0	0.0	0.0	0.0	80.7	12.0
GOLDEN HARVEST H-2660W	8	33.8	82.7	0.0	0.0	0.7	0.0	87.3	16.8
GOLDEN HARVEST H-2665W	9	27.1	84.5	0.0	6.5	1.3	0.0	85.3	14.3
IFSI 1	10	48.3	86.9	0.0	0.0	0.0	0.0	84.0	18.3
IFSI 2	11	44.9	90.5	0.0	0.0	0.0	0.0	81.7	13.4
IFSI 3	12	54.9	88.7	0.0	0.0	0.0	0.0	82.7	11.9
IFSI 4	13	48.1	85.1	0.0	0.0	0.0	0.0	84.3	16.1
IFSI 5	14	39.6	78.6	0.0	3.2	0.0	0.0	84.7	14.5
IFSI 6	15	52.7	81.0	0.0	0.0	0.0	0.0	82.7	16.1
IFSI 7	16	50.3	90.5	0.0	0.6	0.0	0.0	89.3	20.0
IFSI 8	17	47.6	91.7	0.0	0.0	0.0	0.0	87.3	18.7
IFSI 9	18	48.4	92.9	0.0	0.0	0.0	0.0	86.7	14.5
IFSI 10	19	55.9	83.3	0.0	0.8	0.0	0.0	84.3	15.6
IFSI 11	20	49.2	92.9	0.0	0.0	0.0	0.0	86.7	15.8
IFSI 12	21	31.4	83.9	0.0	1.3	0.0	0.0	88.0	15.2
IFSI 13	22	37.7	84.5	0.0	0.0	0.0	0.0	82.3	13.0
JACQUES W200	23	39.4	78.6	0.0	0.0	0.0	0.0	82.3	11.6
JACQUES W300	24	46.7	81.5	0.0	0.0	0.7	0.0	86.3	17.2
JACQUES EXP 9110W	25	46.6	86.9	0.0	0.0	0.7	0.0	83.3	12.3
LYNKS SC-WM	26	45.6	92.3	0.0	0.0	3.9	0.0	82.3	12.6
LYNKS SC-WLA	27	38.1	78.6	0.0	1.4	0.7	0.0	86.0	15.0
MEACHAM'S MV78	28	40.9	90.5	0.0	0.0	0.0	0.0	85.7	17.4
MEACHAM'S MV88	29	34.5	72.6	0.0	0.0	0.0	0.0	85.3	15.3
MEACHAM'S MX50	30	39.7	86.9	0.0	0.0	0.0	0.0	86.0	14.6
MFA C4W	31	40.1	85.1	0.0	0.7	0.0	0.0	86.3	13.5
P-A-G SX 70W	32	41.1	77.4	0.0	0.0	0.0	0.0	85.3	13.1
P-A-G 644W	33	33.7	89.3	0.0	0.0	0.0	0.0	87.0	12.7
PIONEER BRAND EXP X5386	34	33.6	92.3	0.0	1.9	0.6	0.0	86.3	11.9
PRINCETON SX910	35	49.8	85.1	0.0	0.0	0.0	0.0	85.0	17.6
PRINCETON SP936	36	37.3	92.9	0.0	0.0	0.0	0.0	85.3	13.9
RING AROUND RA2602W	37	43.7	89.9	0.0	0.0	0.0	0.0	87.3	16.8
RING AROUND RA3605W	38	35.5	88.7	0.0	2.1	0.0	0.0	83.7	13.6
STURDY GROW SG908W	39	39.9	86.9	0.0	0.0	0.0	0.0	83.3	15.1
STURDY GROW SG921W	40	29.8	83.9	0.0	0.0	0.0	0.0	85.0	14.0

TABLE 13. CONTINUED.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %
STURDY GROW SG935W	41	35.8	94.0	0.0	0.0	0.0	0.0	86.3	13.7
STURDY GROW SG9641W	42	44.6	92.3	0.0	0.0	0.0	0.0	84.3	14.4
STURDY GROW SG9645W	43	37.4	87.5	0.0	2.2	0.0	0.0	86.3	14.4
STURDY GROW SG9649W	44	49.4	86.3	0.0	0.0	0.0	0.0	81.3	12.4
STURDY GROW SG9669W	45	40.5	80.4	0.0	0.0	0.0	0.0	82.7	12.9
STURDY GROW SG9677W	46	43.1	89.9	0.0	0.0	0.0	0.0	82.7	13.3
WHISNAND 75W	47	39.3	94.0	0.0	0.0	0.6	0.0	84.7	11.8
WHISNAND 77W	48	37.3	89.9	0.0	2.7	0.0	0.0	82.0	11.7
WHISNAND 79W	49	36.5	89.3	0.0	0.0	1.5	0.0	82.0	11.3
WHISNAND EXP 77-1W	50	42.7	85.1	0.0	3.5	0.7	0.0	82.7	11.4
WHISNAND EXP 77-2W	51	37.7	81.5	0.0	0.0	0.0	0.0	83.7	13.4
WHISNAND EXP 2W	52	41.7	78.0	0.0	0.0	0.8	0.0	82.7	12.6
WHISNAND EXP 91W	53	35.2	79.8	0.0	3.3	0.0	0.0	85.7	13.3
YELLOW CHECK B73 X MO17	54	53.4	83.9	0.0	0.0	0.0	0.0	81.7	12.9
YELLOW CHECK MO17 X N28	55	47.2	81.5	0.0	0.0	1.4	0.0	81.7	12.1
YELLOW CHECK US13	56	40.4	87.5	0.0	0.0	0.8	0.0	81.0	12.4
MEAN	.	41.4	85.8	.	0.6	0.3	.	84.7	14.3
LSD 0.05	.	13.0	10.7	.	.	1.2	.	2.7	3.5
CV%	.	19.2	7.6	.	.	293.4	.	2.0	15.1

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 14. COMBINED YIELD AND AGRONOMIC DATA FROM ELEVEN SITES GROWING THE 1980 WHITE MAIZE VARIETY TRIAL.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %	BI	SD
ACCO UC1800W	1	52.3	89.4	3.4	10.6	1.5	119.7	75.9	19.8	0.88	4.8
ACCO UC2100W	2	51.0	91.1	9.0	3.4	1.1	108.2	79.0	22.7	0.87	6.6
CARGILL 99W	3	52.7	91.6	8.5	7.8	1.2	114.2	81.2	23.7	1.17	11.8
DEKALB XL390B	4	53.5	87.2	3.6	7.9	0.5	121.9	79.1	21.6	1.19	10.0
FUNK G-4747W-1	5	50.6	93.0	3.4	6.9	0.4	116.2	79.2	22.4	1.03	7.8
FUNK G-4787W	6	43.7	92.1	7.1	6.1	0.4	121.4	81.5	22.2	0.82	10.9
GOLDEN HARVEST H-2644W	7	48.5	87.9	4.9	6.7	1.1	100.0	74.1	19.6	0.90	3.5
GOLDEN HARVEST H-2660W	8	52.0	91.0	4.2	7.4	0.8	117.7	79.3	22.6	1.12	10.6
GOLDEN HARVEST H-2665W	9	49.2	86.8	5.0	6.7	0.7	115.7	78.8	21.7	1.22	9.2
IFSI 1	10	57.5	90.2	1.0	9.1	0.1	107.2	75.7	22.5	1.04	9.7
IFSI 2	11	48.7	91.1	9.1	6.9	0.4	119.6	76.5	21.1	1.05	8.1
IFSI 3	12	56.8	92.3	0.8	9.3	0.4	115.6	74.5	18.9	1.01	9.6
IFSI 4	13	57.5	90.8	1.6	3.9	0.7	104.5	77.2	23.0	0.95	6.9
IFSI 5	14	49.8	91.2	5.0	7.5	0.0	96.2	75.7	21.4	0.92	12.0
IFSI 6	15	57.5	90.7	2.1	6.0	0.7	117.4	76.1	20.8	1.26	9.1
IFSI 7	16	55.6	93.2	1.8	6.2	0.4	114.1	78.7	23.3	0.98	7.0
IFSI 8	17	56.9	93.0	1.3	7.4	0.5	109.7	79.0	23.9	1.08	6.4
IFSI 9	18	56.1	92.5	9.8	5.1	1.0	113.7	77.8	21.8	1.21	6.3
IFSI 10	19	50.4	89.1	4.8	8.9	0.7	119.3	77.1	20.1	1.13	8.6
IFSI 11	20	51.3	91.1	11.6	6.7	1.1	114.7	78.9	22.0	1.08	9.0
IFSI 12	21	45.3	87.6	6.3	5.3	0.2	116.9	79.9	21.9	0.92	8.0
IFSI 13	22	53.6	91.6	2.0	3.4	1.0	99.4	74.2	18.9	0.95	8.3
JACQUES W200	23	43.1	87.9	4.5	8.5	0.4	114.1	75.2	19.2	0.92	7.8
JACQUES W300	24	48.1	88.7	7.8	5.6	0.6	122.2	79.6	22.6	0.94	7.2
JACQUES EXP 9110W	25	50.6	89.9	2.0	10.1	0.7	117.7	76.1	19.9	0.90	4.7
LYNKS SC-WM	26	51.8	88.8	4.8	10.1	2.7	111.7	75.3	19.3	0.89	4.5
LYNKS SC-WLA	27	52.5	89.5	4.1	7.3	0.4	115.5	79.2	22.6	1.07	5.3
MEACHAM'S MV78	28	52.8	86.3	5.8	5.3	0.7	114.6	78.7	22.3	1.04	7.1
MEACHAM'S MV88	29	49.4	86.3	7.5	8.6	1.0	117.7	78.5	22.0	0.84	11.0
MEACHAM'S MX50	30	50.9	91.0	15.1	13.8	0.9	109.3	78.7	21.7	0.86	8.2
MFA C4W	31	50.9	91.6	11.1	15.8	0.7	106.2	79.1	21.8	0.62	6.9
P-A-G SX 70W	32	56.5	92.0	12.8	15.1	0.3	104.3	79.0	22.6	0.68	13.6
P-A-G 644W	33	53.1	91.6	6.2	7.2	0.6	120.6	80.1	21.1	0.90	7.0
PIONEER BRAND EXP X5386	34	56.3	91.9	5.5	5.4	0.5	121.7	78.6	19.8	1.17	8.4
PRINCETON SX910	35	52.9	93.2	6.0	5.8	1.0	120.4	78.3	22.2	1.07	11.5
PRINCETON SP936	36	52.1	90.6	7.5	5.8	1.1	122.7	79.2	21.6	1.10	6.5
RING AROUND RA2602W	37	52.3	92.2	6.8	5.9	0.1	115.0	78.7	22.3	1.13	7.3
RING AROUND RA3605W	38	48.9	90.3	2.8	8.3	1.4	119.4	78.3	21.9	1.17	7.4
STURDY GROW SG908W	39	52.2	90.0	2.3	8.7	1.2	119.0	75.6	19.4	1.02	5.5
STURDY GROW SG921W	40	49.2	90.2	11.5	2.6	1.1	111.0	78.7	22.4	1.00	9.4

TABLE 14. CONTINUED.

ENTRY NAME	NO.	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %	BI	SD
STURDY GROW SG935W	41	49.7	91.5	3.2	9.3	0.7	119.4	79.6	21.8	1.13	11.2
STURDY GROW SG9641W	42	50.1	90.6	5.4	5.4	0.9	109.9	77.7	21.6	1.11	8.5
STURDY GROW SG9645W	43	50.9	93.0	4.7	7.3	0.5	95.6	77.9	21.9	1.11	10.9
STURDY GROW SG9649W	44	54.8	90.2	4.0	4.9	0.4	106.2	75.9	19.6	1.13	12.4
STURDY GROW SG9669W	45	46.8	89.8	7.0	4.8	0.8	99.3	76.1	20.8	1.09	7.3
STURDY GROW SG9677W	46	48.6	91.9	5.1	5.7	0.9	106.8	74.2	19.3	0.86	11.8
WHISNAND 75W	47	49.9	92.0	5.5	11.0	0.8	116.2	75.3	19.6	0.90	7.6
WHISNAND 77W	48	55.3	92.1	5.7	10.2	0.5	112.6	74.7	18.8	1.06	8.2
WHISNAND 79W	49	35.9	90.9	7.4	9.7	1.3	112.7	74.5	18.5	0.93	10.2
WHISNAND EXP 77-1W	50	52.4	90.2	5.7	9.6	1.0	116.0	75.2	18.6	1.01	7.3
WHISNAND EXP 77-2W	51	37.6	89.0	12.1	8.0	0.5	112.1	75.1	18.7	0.90	8.0
WHISNAND EXP 2W	52	54.2	88.1	10.0	9.8	0.8	113.2	74.9	18.8	1.04	7.5
WHISNAND EXP 91W	53	51.6	89.6	7.0	6.0	1.2	113.2	79.0	22.6	1.08	8.0
YELLOW CHECK B73 X MO17	54	56.5	90.0	1.4	10.0	1.0	110.7	74.2	18.8	0.99	11.9
YELLOW CHECK MO17 X N28	55	55.6	90.4	1.4	12.0	1.7	105.7	74.9	20.4	0.81	9.6
YELLOW CHECK US13	56	42.0	90.4	8.7	16.6	1.2	113.2	75.1	18.3	0.71	5.4
MEAN	.	51.2	90.5	5.8	7.8	0.8	113.0	77.3	21.0	1.00	8.4
LSD 0.05	.	7.7	3.7	7.1	5.6	.	7.0	1.5	1.0	0.10	.
SITE MEANS											
CHAMPAIGN, IL	.	56.6	97.8	14.7	2.2	.	.	.	24.4		
LAFAYETTE, IN	.	65.6	98.4	0.1	5.2	.	108.6	.	18.6		
IOWA CITY, IA	.	72.1	98.2	.	.	.	.	.	22.8		
MANHATTAN, KS	.	16.8	69.3	.	4.8	2.3	.	76.7	16.0		
SILVER LAKE, KS	.	50.1	71.9	.	3.2	0.2	.	78.9	23.0		
TROY, KS	.	25.5	.	.	.	.	.	.	19.3		
LEXINGTON, KY	.	85.1	100.0	0.9	28.8	0.4	125.4	70.8	17.3		
NOVELTY, MO	.	18.7	95.9	17.0	14.8	.	115.3	.	38.2		
KNOXVILLE, TN	.	55.8	95.6	2.0	7.5	.	102.9	75.6	20.6		
UNION CITY, TN	.	75.2	91.9	0.0	3.6	.	.	.	16.3		
TIOGA, TX	.	41.4	85.8	.	0.6	0.3	.	84.7	14.3		

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 15. EUROPEAN CORN BORER, VIRUS, KERNEL BREAKAGE, AND OTHER RATINGS IN THE 1980 WHITE MAIZE VARIETY TRIAL.

ENTRY NAME	NO.	1ST ECB	2ND ECB	VIR INF%	VIR SEVR	AVG VIR	BRKN K %	BIRDLOSS	GRN FILL
ACCO UC1800W	1	9.0	6.3	65.7	4.8	3.6	40.2	5.7	4.0
ACCO UC2100W	2	6.7	7.0	85.8	4.8	4.3	43.4	8.7	2.3
CARGILL 99W	3	6.0	6.7	73.8	4.7	3.9	46.6	9.0	3.3
DEKALB XL390B	4	7.7	6.3	68.8	4.7	3.7	42.2	8.3	4.3
FUNK G-4747W-1	5	6.7	7.3	55.0	4.3	2.9	47.9	7.3	2.7
FUNK G-4787W	6	7.0	7.3	38.5	3.4	2.4	42.9	11.0	4.3
GOLDEN HARVEST H-2644W	7	8.3	7.7	71.6	4.3	3.9	42.7	7.3	3.3
GOLDEN HARVEST H-2660W	8	3.3	7.0	76.9	3.8	3.2	50.2	8.7	2.3
GOLDEN HARVEST H-2665W	9	6.0	7.0	54.8	3.6	2.5	48.6	16.0	4.0
IFSI 1	10	8.0	7.0	54.8	3.1	2.7	51.3	7.3	2.3
IFSI 2	11	7.7	7.7	56.8	3.6	2.6	45.9	6.0	4.0
IFSI 3	12	7.7	6.0	72.9	4.1	3.4	42.0	8.3	3.3
IFSI 4	13	7.0	7.0	77.5	4.2	3.6	45.0	8.3	2.7
IFSI 5	14	7.0	8.0	75.3	5.0	4.1	51.0	4.7	2.3
IFSI 6	15	8.3	7.0	35.2	3.5	2.2	50.5	15.0	2.7
IFSI 7	16	7.7	7.0	77.4	4.7	4.0	43.1	6.3	2.0
IFSI 8	17	5.0	6.3	77.5	4.5	3.9	45.2	8.3	2.7
IFSI 9	18	8.0	7.0	79.3	5.3	4.6	50.4	12.0	4.3
IFSI 10	19	6.7	7.7	40.8	3.5	2.2	45.5	10.3	3.0
IFSI 11	20	7.0	7.0	54.3	4.1	3.2	49.7	13.0	3.0
IFSI 12	21	7.3	7.7	51.1	6.0	3.3	50.0	15.0	3.3
IFSI 13	22	9.0	6.7	90.7	4.7	4.4	39.9	16.7	3.7
JACQUES W200	23	8.3	7.7	81.9	5.2	4.7	49.0	3.7	5.0
JACQUES W300	24	8.0	7.0	58.3	3.7	2.8	50.3	7.3	3.0
JACQUES EXP 9110W	25	8.7	7.0	64.4	4.0	3.2	40.9	8.3	4.0
LYNKS SC-WM	26	7.7	7.7	88.7	4.6	4.3	48.8	6.7	3.7
LYNKS SC-WLA	27	6.7	6.7	69.1	3.4	2.8	49.8	11.7	2.7
MEACHAM'S MV78	28	6.3	7.3	53.7	3.5	2.5	51.0	5.7	4.0
MEACHAM'S MV88	29	6.0	7.7	58.6	3.9	3.2	50.1	17.3	4.0
MEACHAM'S MX50	30	7.3	6.7	75.0	5.2	4.5	47.2	6.7	3.0
MFA C4W	31	6.3	7.7	87.7	5.9	5.4	47.2	7.0	2.7
P-A-G SX 70W	32	6.3	7.3	84.1	5.8	5.1	43.8	7.7	3.0
P-A-G 644W	33	8.3	7.0	63.6	3.7	3.0	41.8	8.7	2.7
PIONEER BRAND EXP X5386	34	5.0	7.7	56.7	3.8	3.0	44.4	2.0	3.3
PRINCETON SX910	35	7.0	6.7	55.8	3.9	3.0	50.8	7.7	2.7
PRINCETON SP936	36	7.0	8.3	52.8	4.2	2.8	47.4	9.7	3.3
RING ARGUND RA2602W	37	5.7	7.7	57.6	4.2	3.2	50.2	11.3	2.7
RING AROUND RA3605W	38	5.7	7.0	39.3	3.5	2.1	47.2	11.7	4.0
STURDY GROW SG908W	39	7.0	7.7	59.8	3.6	2.8	41.1	6.0	3.3
STURDY GROW SG921W	40	7.0	6.7	81.9	4.7	4.2	45.3	3.7	3.3

TABLE 15. CONTINUED.

ENTRY NAME	NO.	1ST ECB	2ND ECB	VIR INF%	VIR SEVR	AVG VIR	BRKN K %	BIRDLOSS	GRN FILL
STURDY GROW SG935W	41	7.7	8.3	41.7	3.1	1.9	47.9	17.3	3.7
STURDY GROW SG9641W	42	9.0	6.7	67.5	5.3	4.1	49.7	5.7	2.7
STURDY GROW SG9645W	43	6.0	6.3	74.7	4.7	4.1	48.6	4.3	3.0
STURDY GROW SG9649W	44	6.0	7.7	58.8	4.4	3.5	48.8	12.7	3.7
STURDY GROW SG9669W	45	6.7	7.7	96.8	5.6	5.5	49.0	9.0	3.3
STURDY GROW SG9677W	46	8.3	8.3	89.5	4.2	3.9	45.5	25.0	4.7
WHISNAND 75W	47	7.7	7.7	65.6	4.4	3.5	46.2	5.0	2.7
WHISNAND 77W	48	9.0	7.7	68.3	4.8	4.0	47.3	7.3	3.0
WHISNAND 79W	49	9.0	8.3	75.0	4.4	3.6	49.5	9.3	6.0
WHISNAND EXP 77-1W	50	9.0	7.7	89.7	5.4	5.0	51.3	6.0	3.0
WHISNAND EXP 77-2W	51	7.7	8.3	64.4	4.4	3.8	50.0	4.0	5.3
WHISNAND EXP 2W	52	8.7	8.3	71.8	4.8	4.0	48.5	5.7	3.3
WHISNAND EXP 91W	53	5.7	7.0	39.7	2.6	2.1	50.6	10.3	3.3
YELLOW CHECK B73 X MO17	54	9.0	7.7	79.2	6.3	5.4	45.4	16.7	3.0
YELLOW CHECK MO17 X N28	55	7.7	7.0	66.0	4.9	3.9	41.7	14.0	2.3
YELLOW CHECK US13	56	7.7	7.3	72.0	4.7	4.0	40.3	16.0	4.0
MEAN	.	7.2	7.3	66.9	4.4	3.6	46.8	9.4	3.3
LSD 0.05	.	1.8	.	27.3	1.3	1.2	4.5	7.1	1.5
CV%	.	15.3	.	25.0	17.7	21.1	10.5	46.7	27.2

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 16. CORRELATIONS AMONG 16 OBSERVED CHARACTERS IN THE 1980 WHITE MAIZE VARIETY TRIAL.
MEANS COMBINED OVER SITES WERE USED, UNLESS THE CHARACTER WAS OBSERVED AT ONLY ONE SITE.

VARIABLE	YLD Q/HA	STAND %	ROOT L %	STLK L %	DROP E %	EAR H CM	DAYS FLW	MOIST %	1ST ECB	2ND ECB	VIR INF%	VIR SEVR	AVG VIR	BRKN K %	BIRDLOSS	GRN FILL
YLD Q/HA	1.00	0.26	-0.37**	-0.08	-0.07	-0.06	0.06	0.26	-0.12	-0.40**	0.03	-0.01	0.03	-0.12	-0.01	-0.64**
STAND %	0.26	1.00	-0.03	0.01	-0.16	-0.14	0.10	0.17	-0.09	-0.18	0.14	0.07	0.12	-0.16	-0.07	-0.35**
ROOT L %	-0.37**	-0.03	1.00	0.18	0.04	-0.02	0.28*	0.10	-0.09	0.22	0.14	0.25	0.26	0.22	-0.17	0.18
STLK L %	-0.08	0.01	0.18	1.00	0.15	-0.01	-0.23	-0.31*	0.14	0.10	0.13	0.27*	0.27*	-0.21	-0.04	0.03
DROP E %	-0.07	-0.16	0.04	0.15	1.00	0.04	-0.22	-0.25	0.15	-0.01	0.17	0.04	0.12	-0.16	0.12	0.17
EAR H CM	-0.06	-0.14	-0.02	-0.01	0.04	1.00	0.38**	0.05	-0.03	0.00	-0.57**	-0.44**	-0.59**	-0.01	0.00	0.18
DAYS FLW	0.06	0.10	0.28*	-0.23	-0.22	0.38**	1.00	0.83**	-0.58**	-0.29*	-0.34**	-0.21	-0.33*	0.15	-0.04	-0.24
MOIST %	0.26	0.17	0.10	-0.31*	-0.25	0.05	0.83**	1.00	-0.57**	-0.42**	-0.20	-0.20	-0.24	0.24	-0.05	-0.44**
1ST ECB	-0.12	-0.09	-0.09	0.14	0.15	-0.03	-0.58**	-0.57**	1.00	0.14	0.18	0.27*	0.25	-0.21	0.05	0.25
2ND ECB	-0.40**	-0.18	0.22	0.10	-0.01	0.00	-0.29*	-0.42**	0.14	1.00	-0.04	0.06	0.03	0.27*	0.13	0.30*
VIR INF%	0.03	0.14	0.14	0.13	0.17	-0.57**	-0.34**	-0.20	0.18	-0.04	1.00	0.68**	0.89**	-0.17	-0.14	-0.02
VIR SEVR	-0.01	0.07	0.25	0.27*	0.04	-0.44**	-0.21	-0.20	0.27*	0.06	0.68**	1.00	0.90**	-0.08	-0.09	-0.06
AVG VIR	0.03	0.12	0.26	0.27*	0.12	-0.59**	-0.33*	-0.24	0.25	0.03	0.89**	0.90**	1.00	-0.11	-0.15	-0.04
BRKN K %	-0.12	-0.16	0.22	-0.21	-0.16	-0.01	0.15	0.24	-0.21	0.27*	-0.17	-0.08	-0.11	1.00	-0.05	-0.03
BIRDLOSS	-0.01	-0.07	-0.17	-0.04	0.12	0.00	-0.04	-0.05	0.05	0.13	-0.14	-0.09	-0.15	-0.05	1.00	0.17
GRN FILL	-0.64**	-0.35**	0.18	0.03	0.17	0.18	-0.24	-0.44**	0.25	0.30*	-0.02	-0.06	-0.04	-0.03	0.17	1.00

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.
*, ** INDICATE SIGNIFICANCE AT P=0.05 AND 0.01, RESPECTIVELY.

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 MO17 X N28.

SITE	YIELD (Q/HA)		STALK LODGING %		EAR HEIGHT (CM)		DAYS TO FLOWERING	
	WHITE	YELLOW	WHITE	YELLOW	WHITE	YELLOW	WHITE	YELLOW
CHAMPAIGN, IL	56.4	68.7	2.2	1.1	-	-	-	-
IOWA CITY, IA	71.4	93.8	-	-	-	-	-	-
LAFAYETTE, IN	65.7	69.5	4.9	6.5	108.6	103.5	-	-
MANHATTAN, KS	16.8	18.9	4.8	2.4	-	-	76.8	74.4
SILVER LAKE, KS	50.5	45.6	3.1	1.5	-	-	79.0	76.9
TROY, KS	25.2	33.2	-	-	-	-	-	-
LEXINGTON, KY	86.1	73.3	27.2	55.8	125.7	120.0	71.0	66.9
NOVELTY, MO	18.2	31.9	14.6	15.9	115.4	113.4	-	-
KNOXVILLE, TN	56.1	52.8	7.1	14.6	103.2	96.2	75.7	73.2
UNION CITY, TN	75.3	78.7	3.6	1.1	-	-	-	-
TIOGA, TX	41.1	50.3	0.6	0.0	-	-	84.3	81.7
MEAN	51.2	56.1	7.5	11.0	113.2	108.2	77.4	74.6

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

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