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1982

White Maize

UNIVERSITY OF
MISSOURI
MR 3'82

National Trials

1981 Missouri Crop Performance



L. L. Darrah

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NON CIRCULATING

University of Missouri-Columbia Agricultural Experiment Station
Agricultural Research Service, U.S. Dept. of Agriculture

Special Report 278

February 1982

ACKNOWLEDGEMENTS

This Bulletin is a contribution of the Department of Agronomy, University of Missouri Agricultural Experiment Station and Agricultural Research Service, Science and Education Administration, U.S. Department of Agriculture in cooperation with Department of Agronomy, Purdue University Agricultural Experiment Station; Department of Agronomy, Kansas State University Agricultural Experiment Station; Department of Agronomy, University of Kentucky Agricultural Experiment Station; Department of Plant and Soil Science, University of Tennessee Agricultural Experiment Station; Department of Soil and Crop Sciences, Texas Agricultural Experiment Station; Department of Agronomy, Virginia Agricultural Experiment Station; Corn Borer Research Laboratory, Agricultural Research Service, U.S. Department of Agriculture; Illinois Foundation Seeds, Inc., Champaign, IL; Funk Seeds International, Union City, TN; and The Quaker Oats Company research laboratory at Barrington, IL. We thank Linda Bode for typing of the manuscript, and Krystyna Lukaszewska and Robert Fincher for assistance in analyzing the results.

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TABLE OF CONTENTS

Introduction	Page 4
Entries and seed sources	Page 4 and Table 1
Site locations and agronomic practices	Page 4 and Table 2
Data collected	Page 4
Statistical analysis and interpretation.	Page 6
Narrative summary.	Page 7
Results	
Columbia, MO.	Table 3
Iowa City, IA	Table 4
Lafayette, IN	Table 5
Union City, TN.	Table 6
Knoxville, TN	Table 7
Manhattan, KS	Table 8
Rossville, KS	Table 9
Troy, KS.	Table 10
Lexington, KY	Table 11
College Station, TX	Table 12
Halfway, TX	Table 13
Mt. Vernon, IL.	Table 14
Blacksburg, VA.	Table 15
Combined agronomic data	Table 16
Virus, European corn borer, and breakage susceptibility ratings.	Table 17
Combined agronomic data for common entries, 1977-81 . . .	Table 18
Comparison of white and yellow hybrids.	Table 19
Kernel quality data for 1980 White Maize Variety Trial. .	Table 20

The 1981 National White Maize Variety Trial involved 61 hybrids plus 4 yellow checks submitted by 17 commercial seed producers or public institutions (Table 1). Eighteen locations were included in the evaluation. Data were received from sites in Illinois, Iowa, Indiana, Kansas, Kentucky, Missouri, Tennessee, Texas, and Virginia. 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, and for quality aspects at The Quaker Oats Company at Barrington, Illinois.

ENTRIES AND SEED SOURCES

Contributors of seed for the 1981 evaluation are listed in Table 1. Those entries that have an EXP as part of the hybrid name, such as Funk EXP 29276, have not been released. The last four named hybrids in each table are yellow kernel hybrid checks.

Note that Whisnand 79W (Ga) contains the dominant gametic factor (Ga) for normal pollen sterility. This means that it could only be pollinated by itself or a genotype which was Ga. This may have resulted in limited pollen availability for this entry 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, Missouri, Pioneer Brand 3320 was contributed through Dr. J. Wright, Pioneer Hi-Bred International, Union City, TN, 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. Dashed lines indicate that treatment was not applied or the information was not available.

DATA COLLECTED

Yield

Yields (YLD BU/A) were measured on a plot basis and converted to bushels per acre adjusted to 15.5 percent moisture.

Stand

Stand (STAND %) is expressed as a percentage of the optimum plot stand or planted stand.

Root 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.

Ear height

Ear height (E HGT IN) was measured from the soil level to the top ear leaf collar. Heights are expressed in inches.

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 11 sites subjected to the "Missouri corn cracker". Grain was hot air dried (40°C) to a uniform moisture percentage for the individual site (approx. 11.5%). 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 percent broken kernels passing through a 6.4 mm screen determined. A sample of 175 g was used for impaction.

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

These statistics are shown only in Table 16 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 horny endosperm

The percent horny endosperm (HORNY %) was visually estimated using a candling light. Ten to fifteen kernels were observed for each entry.

Kernel weight

The 100-kernel-weight (100 KW G) in grams was obtained from 100 randomly picked whole kernels.

Kernel density

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

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 one or 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 charac-

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

Agronomic data combined from 13 locations with an appropriate LSD 0.05 for each character are shown in Table 16. 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.

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 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.

NARRATIVE SUMMARY

Individual site yields ranged from 100.3 bu/a at Troy, KS to 164.9 bu/a at Halfway, TX under irrigated conditions. The overall average was 129.2 bu/a. Plot stands averaged 93.7% ranging from 78.7% at Rossville, KS to 102.5% at Union City, TN. No stand data were recorded at Troy, KS. No covariance adjustment of yield for stand was done because of the relatively good stands and the poor stand for Funk EXP 29276 which averaged just 54.9% over all sites. Funk EXP 29276 had average stands significantly lower than the mean at nine sites. This may have been due to seed quality and germinability

under less than optimum conditions. The low stands significantly affected yield, resulting in Funk EXP 29276 being lowest yielding in the Trial.

Root lodging was generally low except at Lexington, KY where nearly 25% lodging occurred. Stalk lodging was very high (48.7%) at Halfway, TX under irrigated management, and relatively high at Lafayette, IN (23.9%). Average days to flowering ranged from 69.8 days at Knoxville, TN to 81.8 days at Troy, KS with an overall mean of 77.3 days. Harvest moistures were less than 22% at all but two sites. However, low moisture could also arise if ears were dried before shelling and weighing. Details of individual site data are in Tables 3-15.

Combined agronomic data from 13 sites (Table 16)

IFSI 81-3 (143.4 bu/a), IFSI 80-6 (146.9 bu/a), Lynks SC-WLA (142.9 bu/a), Meacham's MV58 (145.7 bu/a), Meacham's MV88 (146.9 bu/a), Pioneer Brand 519 (146.5 bu/a), and Sturdy Grow SG935W (142.5 bu/a) yielded significantly more than the mean of all entries (129.2 bu/a). The sites by entries interaction was highly significant indicating different entry responses in the environments sampled.

Root lodging percentages were generally low. MFA C4W (13.6%) lodged significantly more than the mean of all entries, but was not significantly different from half of the remaining entries. Five entries (IFSI 80-6, Meacham's MV68, O's Gold 26201W, Sturdy Grow EXP 0668 and 0695) had less than 1% root lodging.

Stalk lodging percentages were roughly twice as high as root lodging. Funk EXP 29276 lodged significantly less than the mean, but this was likely a result of the low stands already noted. Only Sturdy Grow EXP 0668 and the yellow check US13 stalk lodged more than the mean of all entries.

Six entries had significantly lower ear heights than the mean: Golden Harvest H-2644W (35.1"), IFSI 81-2 (36.3"), Meacham's MV68 (33.7"), O's Gold 26201W (34.2"), Sturdy Grow EXP 0641 (35.5") and 0695 (35.8"). In Meacham's MV68, O's Gold 26201W, Sturdy Grow EXP 0668 and 0695, lower ear height was associated with root lodging percentages of less than 1%. However, none of the stalk lodging percentages for these four hybrids was below the mean.

Little variation existed among entries for days to flowering with most entries falling between 76-79 days. Only Funk G4787W (79.9 days), Meacham's MV68 (75.3 days), and Sturdy Grow EXP 0668 differed significantly from the

mean. The yellow checks were uniformly earlier in flowering than most of the white hybrids.

The environmental response coefficients and standard deviations of fit are shown in the last two columns of Table 16. (A difference of ± 0.17 from 1.0 is necessary for significance. The LSD 0.05 should be used when comparing coefficients of two hybrids.) Twenty entries had b_1 's significantly greater than 1.0, indicating greater than average response to better environmental conditions, but poor performance in adverse environments.

Five hybrids had responses that were more than two LSD's greater than 1.0: IFSI 80-6 (1.37), IFSI 79-1 (1.39), Meacham's MV58 (1.38), Meacham's MV88 (1.35), and Sturdy Grow EXP 0641 (1.47). Three of these five hybrids were among the seven highest yielders. Pioneer Brand 519, however, was an exception. Its response of 0.73 was significantly lower than most entries, but it was among the four highest yielders (range 146.5 to 146.9 bu/a). Pioneer Brand 519 appears to be unaffected by what are stressful environments for most other hybrids, and it yields very well over the whole range of environments. Usually, this type of nonresponsiveness is associated with low rather than high mean yields.

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, virus, and kernel breakage susceptibility ratings (Table 17)

The corn borer ratings were made at the USDA Corn Insects Research Laboratory at Ankeny, IA using hand infestation. For the first generation, ACCO UC1800W (4.0), O's Gold 26801W (4.3), and Pioneer Brand 519 (4.0) had significantly less damage than the mean of all entries (6.5). Three entries rated as completely susceptible (9.0) and eight more entries rated 8.0 or higher. Entries significantly better than the mean (7.0) for second generation European corn borer were Funk G-4768W (5.3), Funk G-4787W (5.3), Northrup King X233F6 (5.7), Tennessee T1108 (5.7), and Whisnand 91W (5.7). Seven white hybrids and one yellow check (B73 x Mo17) rated 8.0 or lower.

Virus ratings were made at Waverly, TN under conditions expected to result in high levels of incidence. Eighty-eight percent of the plants were noted as showing virus symptoms, with an average virus rating of 3.9 on a 1 to

9 scale in which 9 represented a severely affected plant. Only Meacham's MV58 (60.8%) was significantly better than the mean (88.0%). Six hybrids showed 100% infections: Funk G-4768W, Golden Harvest H-2644W, IFSI 81-2, IFSI 81-9, IFSI 80-13, and O's Gold 26301W. The average virus (AVG VIR) ratings of ACCO U398W (2.9), Funk G-4787W (2.6), Golden Harvest H-2660W (2.6), Lynks SC-WLA (2.8), Meacham's MV58 (2.7), Northrup King X233F6 (2.8), and Whisnand 91W (2.8) were better than the mean of all entries.

The "Missouri corn cracker" broke an average of 33% of the kernels impacted into pieces small enough to pass a 0.25" screen. Eight white hybrids broke less than the mean of all entries: ACCO UC1800W (27.5%), Golden Harvest H-2644W (28.7%), IFSI 81-2 (28.1%), IFSI 81-5 (26.5%), IFSI 81-9 (28.5%), IFSI 80-13 (24.6%), O's Gold 25610W (27.8%), and Sturdy Grow SG908W (27.3%). Funks G-4747W-1, Golden Harvest H-2660W, Lynks SC-WLA, and Meacham's MV88 showed more breakage susceptibility than the mean.

Performance of entries occurring in more than one year, 1977-81 (Table 18)

Fifty-nine entries have been entered in more than one year of the Trial. Seven entries have been entered in all five years. Comparisons among entries must be made with caution since entries could have been entered in different years. If an entry was entered in 1980 and perhaps 1978, its yield would appear relatively poor compared to its probable performance in 1979 and 1981 in which relatively high yields were obtained. This occurs with high yielding ACCO U398W (124.1 bu/a) which was entered each year except 1980, which was a very poor year. No LSD can be calculated due to the differing years and number of locations included in the means. However, since the yearly combined yield LSD has been approximately 10% of the mean, a difference of more than 7% or 7.6 bu/a for two-year data would probably be significant. A slightly smaller value (5-6 bu/a) would apply when comparing hybrids in the trial for more than two years.

Comparison of white and yellow grain entries (Table 19)

Grain yield, stalk lodging, ear height, and days to flowering for the 61 white entries and the three yellow checks B73 x Mo17, Mo17 x N28, and Pioneer Brand 3320 are compared in Table 19. At five of 13 sites, the white entries outyielded the three yellow checks. Overall, however, the yellow checks had an 8 bu/a advantage. Note that the yellow check US13 was omitted since it is not currently grown. The white entries generally stalk lodged slightly more, were some 12" taller in ear height and less than a day later to flowering.

Milling quality evaluation (Table 20)

Milling quality of entries in the 1980 National White Maize Variety Trial was evaluated by The Quaker Oats Company's research laboratories. Due to the time necessary to make these evaluations, results are not obtained until the following year. Target values used by Quaker Oats are 90% or more horneous endosperm, kernel weight of 37 g or more, and density equal to or exceeding 1.22 g/cc. Grain samples from IFSI 74-3 and Ring Around RA3605W were the only ones wholly acceptable. All entries had acceptable kernel densities but only two had adequate kernel weights. This was due, in part, to extremely low yields experienced in 1980 where numbers and size of kernels were both reduced.

TABLE 1. SOURCES OF COMMERCIAL WHITE SEED MAIZE HYBRIDS ENTERED IN THE 1981 NATIONAL WHITE MAIZE VARIETY TRIAL.

BRAND	FIRM+	ADDRESS
ACCO	ACCO SEED	P.O. BOX 9, BELMOND, IA 50421
ASGROW	ASGROW SEED COMPANY	KALAMAZOO, MI 49001
FUNK	FUNK SEEDS INT'L.	1300 WEST WASHINGTON ST., BLOOMINGTON, IL 61701
GOLDEN HARVEST	GOLDEN HARVEST SEEDS, INC.	513 E. LOCUST, BLOOMINGTON, IL 61701
IFSI	ILLINOIS FOUNDATION SEED, INC.	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, MORGANFIELD, KY 42437
MFA	MFA SEED DIVISION	P.O. BOX 550, MARSHALL, MO 65340
NORTHRUP KING	NORTHRUP KING CO.	SAWAN DIVISION, P.O. DRAWER 889, LAURINBURG, NC 28352
O'S GOLD	O'S GOLD SEED CO.	P.O. BOX 460, PARKERSBURG, IA 50665
PIONEER	PIONEER HI-BRED INTERNATIONAL, INC.	1206 MULBERRY ST., DES MOINES IA 50308
PRINCETON	PRINCETON FARMS	PRINCETON, IN 47670
STURDY GROW	STURDY GROW HYBRIDS, INC.	P.O. BOX 94, ARCOLA, IL 61910
TENNESSEE	DEPT. OF PLANT AND SOIL SCIENCE	UNIVERSITY OF TENNESSEE, KNOXVILLE, TN 37901
WHISNAND	WHISNAND HYBRIDS	RFD 1, ARCOLA, IL 61910
ZIMMERMAN	ZIMMERMAN HYBRIDS, INC.	BOX 275B, EVANSVILLE, IN 47712

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TABLE 2. SITE LOCATIONS AND AGRONOMIC CONDITIONS FOR YIELD TRIALS.

SITE	MEAN YIELD (BU/A)	PREVIOUS CROP	FERTILIZER (LBS/A)			DATE PLANTED	HERBICIDE	INSECTICIDE	PLANTED DENSITY (/A)
			N	P ₂ O ₅	K ₂ O				
COLUMBIA, MO	108.4	MAIZE	120	60	60	17APR81	SIMAZINE,ALACHLOR,EPTAM	CHLORPYRIFOS	21,780
IOWA CITY, IA	150.4	SOYBEANS	-	-	-	-	--	--	22,300
LAFAYETTE, IN	121.1	-	-	-	-	-	--	--	--
UNION CITY, TN	140.4	-	-	-	-	-	--	--	--
KNOXVILLE, TN	152.5	SOYBEANS	165	120	120	5MAY81	ATRAZINE	--	19,425
MANHATTAN, KS	111.1	-	-	-	-	-	--	--	--
ROSSVILLE, KS	125.5	-	-	-	-	-	--	--	--
TROY, KS	100.3	-	-	-	-	-	--	--	--
LEXINGTON, KY	139.5	MAIZE	149	0	99	8MAY81	ATRAZINE,ALACHLOR	CARBOFURAN	22,260
COLLEGE STN, TX	108.9	-	-	-	-	-	--	--	--
HALFWAY, TX ⁺	164.9	-	-	-	-	-	--	--	--
MT. VERNON, IL	110.6	SOYBEANS	-	-	-	-	--	--	22,300
BLACKSBURG, VA	145.8	FALLOW	202	140	-	8MAY81	ATRAZINE,ALACHLOR	--	22,070

⁺ IRRIGATED .

TABLE 3. YIELD AND AGRONOMIC DATA FROM THE 1981 NATIONAL WHITE MAIZE VARIETY TRIAL AT COLUMBIA, MO.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
ACCO UC1800W	1	118.1	99.4	0.0	0.0	54.5	82.0	12.7
ACCO U399H	2	109.8	94.4	0.0	0.0	55.8	82.7	13.3
ASGROW RX962W	3	99.8	100.0	0.0	0.0	57.1	83.3	12.9
FUNK G-4747W-1	4	114.2	98.9	0.0	0.0	51.2	84.3	12.9
FUNK G-4768W	5	128.0	100.0	0.0	0.0	56.4	86.7	13.1
FUNK G-4787W	6	67.9	99.4	0.0	0.0	56.4	86.3	13.3
FUNK EXP 29276	7	70.6	26.1	0.0	0.0	49.2	83.0	13.0
FUNK EXP 29313	8	117.9	100.0	0.0	0.0	57.1	84.7	12.7
GOLDEN HARVEST H-2644W	9	80.0	86.1	0.0	0.0	46.6	80.0	12.7
GOLDEN HARVEST H-2660W	10	117.3	100.0	0.0	0.0	58.4	85.0	12.9
IFSI 79-5	11	123.8	92.8	0.0	0.0	45.3	81.0	13.3
IFSI 81-2	12	123.2	100.0	0.0	0.0	47.9	81.3	12.9
IFSI 81-3	13	127.6	100.0	0.0	0.0	52.5	80.7	13.1
IFSI 81-4	14	99.1	90.6	0.0	0.0	49.9	82.0	13.5
IFSI 81-5	15	131.5	99.4	0.0	0.0	54.5	81.3	12.9
IFSI 80-6	16	119.2	99.4	0.0	0.0	51.8	80.7	13.2
IFSI 81-7	17	137.7	100.0	0.0	0.0	53.8	81.3	13.2
IFSI 81-8	18	99.1	100.0	0.0	0.0	49.2	79.7	13.5
IFSI 81-9	19	140.4	98.3	0.0	0.0	45.9	81.3	13.2
IFSI 79-1	20	109.1	100.0	0.0	0.0	51.8	82.0	12.8
IFSI 77-1	21	126.2	95.6	0.0	0.0	55.8	84.7	12.4
IFSI 74-3	22	111.6	97.8	0.0	0.0	52.5	83.3	13.0
IFSI 80-13	23	112.0	99.4	0.0	0.0	50.5	79.0	12.8
JACQUES W200	24	103.8	100.0	0.0	0.0	48.6	81.0	13.0
LYNKS SC-WLA	25	117.4	90.6	0.0	0.0	56.4	83.7	13.2
LYNKS SC-WM	26	80.9	96.1	0.0	0.0	48.6	82.0	12.8
MEACHAM'S MV58	27	108.2	98.3	0.0	0.0	57.7	81.7	13.1
MEACHAM'S MV68	28	92.0	100.0	0.0	0.0	42.7	78.0	13.3
MEACHAM'S MV78	29	124.9	97.8	0.0	0.0	57.7	84.0	13.4
MEACHAM'S MV88	30	117.0	98.3	0.0	0.0	56.4	85.7	12.8
MEACHAM'S MX50	31	141.7	94.4	0.0	0.0	50.5	83.0	13.4
MFA C4W	32	119.2	100.0	0.0	0.0	53.8	83.7	12.8
NORTHTRUP KING X233F6	33	89.6	83.3	0.0	0.0	55.1	84.3	12.4
O'S GOLD 25501W	34	101.4	100.0	0.0	0.0	55.8	81.7	13.1
O'S GOLD 25601W	35	115.8	98.9	0.0	0.0	50.5	81.0	13.0
O'S GOLD 26201W	36	101.9	94.4	0.0	0.0	40.0	78.7	13.4
O'S GOLD 26301W	37	129.4	100.0	0.0	0.0	52.5	85.0	13.2
O'S GOLD 26501W	38	109.8	97.2	0.0	0.0	53.1	85.0	13.3
O'S GOLD 26801W	39	101.6	97.2	0.0	0.0	57.1	84.0	12.9
PIONEER BRAND 519	40	126.9	99.4	0.0	0.0	53.1	83.7	13.0

TABLE 3. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
PRINCETON SX910	41	99.5	91.7	0.0	0.0	57.1	84.3	13.1
PRINCETON SP936	42	102.1	86.7	0.0	0.0	58.4	82.7	13.3
STURDY GROW SG908W	43	127.2	100.0	0.0	0.0	47.9	80.3	13.1
STURDY GROW SG921W	44	104.9	97.8	0.0	0.0	53.1	84.0	12.8
STURDY GROW SG935W	45	111.5	99.4	0.0	0.0	58.4	85.3	13.0
STURDY GROW EXP 0641	46	105.0	98.9	0.0	0.0	49.9	81.7	13.2
STURDY GROW EXP 0668	47	43.8	100.0	0.0	0.0	45.3	78.7	12.9
STURDY GROW EXP 0695	48	99.1	100.0	0.0	0.0	42.0	79.0	13.5
STURDY GROW EXP 9649	49	134.4	100.0	0.0	0.0	51.2	82.3	13.2
TENN T1105	50	112.3	100.0	0.0	0.0	49.9	85.7	13.2
TENN T1108	51	121.3	96.7	0.0	0.0	57.7	82.7	13.3
WHISHAND 71W	52	124.8	100.0	0.0	0.0	50.5	82.0	12.8
WHISHAND 75W	53	108.1	97.8	0.0	0.0	53.1	81.0	13.3
WHISHAND 77W	54	91.4	99.4	0.0	0.0	52.5	81.3	12.9
WHISHAND 79W (GA)	55	44.4	95.6	0.0	0.0	49.9	81.7	12.8
WHISHAND 91W	56	88.9	97.2	0.0	0.0	57.7	85.3	12.7
WHISHAND EXP 2W	57	112.5	100.0	0.0	0.0	49.2	81.0	13.4
WHISHAND EXP 77-2W	58	95.0	85.6	0.0	0.0	51.2	81.3	13.3
WHISHAND EXP 77-3W	59	73.2	99.4	0.0	0.0	51.2	82.3	13.2
ZIMMERMAN Z14	60	122.1	97.8	0.0	0.0	55.1	83.0	13.4
ZIMMERMAN Z54	61	113.8	98.9	0.0	0.0	54.5	82.0	13.5
YELLOW CHECK B73 X M017	62	126.7	94.4	0.0	0.0	46.6	79.0	13.4
YELLOW CHECK M017 X N28	63	118.0	100.0	0.0	0.0	46.6	81.0	13.1
YELLOW CHECK PIONEER BRAND 3320	64	130.1	98.9	0.0	0.0	47.9	81.7	13.6
YELLOW CHECK US13	65	69.1	93.9	0.0	0.0	51.2	81.3	13.1
MEAN	.	108.4	96.2	.	.	52.0	82.4	13.1
LSD 0.05	.	36.2	7.9	.	.	6.4	1.9	0.6
CV%	.	20.5	5.0	.	.	7.6	1.4	2.8

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 4. YIELD AND AGRONOMIC DATA FROM THE 1981 NATIONAL WHITE MAIZE VARIETY TRIAL AT IOWA CITY, IA.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN+	DAY FLWR	MOIST %
ACCO UC1800W	1	156.2	99.0	8.4	13.2	58.0	0.0	24.8
ACCO U398N	2	142.0	88.5	15.0	5.5	54.0	0.0	33.0
ASGROW RX962W	3	160.1	99.0	12.6	8.4	53.0	0.0	33.2
FUNK G-4747W-1	4	146.6	100.0	8.9	5.7	48.0	0.0	33.2
FUNK G-4768W	5	118.7	99.5	19.3	7.3	48.0	0.0	37.6
FUNK G-4787W	6	98.0	96.9	23.8	4.8	55.0	0.0	36.3
FUNK EXP 29276	7	92.4	39.1	0.0	1.1	45.0	0.0	30.1
FUNK EXP 29313	8	161.9	96.9	4.3	7.0	59.0	0.0	31.6
GOLDEN HARVEST H-2644W	9	114.2	62.0	8.8	0.7	43.0	0.0	26.5
GOLDEN HARVEST H-2660W	10	151.2	97.4	11.2	11.3	60.0	0.0	33.2
IFSI 79-5	11	161.0	94.8	11.6	4.8	55.0	0.0	26.6
IFSI 81-2	12	135.3	100.0	36.5	1.0	49.0	0.0	26.1
IFSI 81-3	13	171.4	99.0	4.2	13.7	55.0	0.0	30.6
IFSI 81-4	14	154.2	98.4	5.2	8.5	56.0	0.0	31.4
IFSI 81-5	15	170.9	99.5	16.7	2.1	62.0	0.0	24.1
IFSI 80-6	16	170.6	93.7	0.5	10.5	53.0	0.0	30.3
IFSI 81-7	17	171.7	93.2	5.8	3.7	46.0	0.0	33.5
IFSI 81-8	18	154.9	100.0	1.6	9.9	59.0	0.0	25.2
IFSI 81-9	19	166.7	96.9	3.8	4.8	44.0	0.0	26.8
IFSI 79-1	20	149.5	96.9	11.7	9.1	54.0	0.0	27.5
IFSI 77-1	21	154.7	98.4	14.7	5.3	60.0	0.0	32.0
IFSI 74-3	22	125.0	95.3	20.4	2.7	50.0	0.0	33.0
IFSI 80-13	23	164.1	96.9	0.5	1.1	47.0	0.0	22.3
JACQUES W200	24	175.9	99.0	15.4	8.9	58.0	0.0	24.7
LYNKS SC-WLA	25	140.4	97.9	15.4	11.7	54.0	0.0	30.1
LYNKS SC-WM	26	150.7	97.9	22.0	7.5	51.0	0.0	24.8
MEACHAM'S MV58	27	172.6	97.9	28.2	4.2	52.0	0.0	27.2
MEACHAM'S MV68	28	153.5	100.0	3.1	13.5	46.0	0.0	27.4
MEACHAM'S MV78	29	145.0	98.4	14.3	9.0	56.0	0.0	33.6
MEACHAM'S MV88	30	145.0	97.9	26.0	5.3	57.0	0.0	32.1
MEACHAM'S MX50	31	136.0	100.0	22.4	4.7	62.0	0.0	32.7
MFA C4W	32	139.3	91.1	32.2	5.3	53.0	0.0	31.9
NORTHROP KING X233F6	33	145.0	91.7	23.0	3.9	55.0	0.0	33.1
O'S GOLD 25501W	34	179.1	97.4	12.6	3.8	59.0	0.0	27.3
O'S GOLD 25601W	35	168.0	99.0	21.4	6.2	62.0	0.0	25.2
O'S GOLD 26201W	36	175.5	99.5	0.5	14.2	48.0	0.0	24.7
O'S GOLD 26301W	37	118.7	95.3	29.1	5.7	53.0	0.0	31.2
O'S GOLD 26501W	38	151.5	96.9	11.0	6.1	53.0	0.0	30.8
O'S GOLD 26801W	39	134.5	99.0	10.0	3.1	61.0	0.0	34.1
PIONEER BRAND 519	40	178.5	96.9	10.8	4.9	67.0	0.0	27.5

TABLE 4. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN+	DAY FLWR	MOIST %
PRINCETON SX910	41	154.4	93.7	28.9	11.1	55.0	0.0	30.5
PRINCETON SP936	42	122.8	76.0	3.2	5.3	47.0	0.0	33.0
STURDY GROW SG908W	43	161.7	100.0	11.5	7.3	64.0	0.0	24.0
STURDY GROW SG921W	44	113.0	100.0	32.3	5.7	56.0	0.0	32.6
STURDY GROW SG935W	45	144.8	93.7	27.2	3.9	56.0	0.0	32.6
STURDY GROW EXP 0641	46	163.1	97.9	3.6	6.9	58.0	0.0	25.2
STURDY GROW EXP 0668	47	158.6	99.0	4.8	23.7	49.0	0.0	22.8
STURDY GROW EXP 0695	48	190.8	97.9	1.1	13.9	59.0	0.0	23.9
STURDY GROW EXP 9649	49	151.6	95.8	21.7	7.1	60.0	0.0	25.0
TENN T1105	50	110.7	100.0	10.9	4.2	57.0	0.0	35.4
TENN T1108	51	132.0	100.0	22.4	5.2	54.0	0.0	31.1
WHISNAND 71W	52	162.7	100.0	23.4	6.8	51.0	0.0	25.5
WHISNAND 75W	53	166.6	99.0	9.6	10.5	53.0	0.0	24.7
WHISNAND 77W	54	170.5	97.9	13.2	6.4	52.0	0.0	25.7
WHISNAND 79W (GA)	55	127.8	94.8	16.9	9.4	55.0	0.0	24.6
WHISNAND 91W	56	130.7	96.9	26.2	4.3	59.0	0.0	32.0
WHISNAND EXP 2W	57	167.3	100.0	12.5	7.3	62.0	0.0	24.3
WHISNAND EXP 77-2W	58	161.0	96.9	14.6	8.1	47.0	0.0	26.4
WHISNAND EXP 77-3W	59	154.5	99.5	17.2	12.1	59.0	0.0	23.3
ZIMMERMAN Z14	60	153.1	94.3	6.5	2.9	57.0	0.0	31.7
ZIMMERMAN Z54	61	113.6	100.0	12.0	4.7	56.0	0.0	33.4
YELLOW CHECK B73 X M017	62	194.3	95.8	29.9	2.8	43.0	0.0	22.9
YELLOW CHECK M017 X N28	63	182.4	99.5	2.6	7.3	46.0	0.0	26.8
YELLOW CHECK PIONEER BRAND 3320	64	176.1	97.4	3.3	2.1	52.0	0.0	27.0
YELLOW CHECK US13	65	108.3	97.9	14.8	29.2	57.0	0.0	24.7
MEAN	.	150.4	95.7	14.0	7.2	54.2	.	28.9
LSD 0.05	.	31.7	11.0	19.1	7.0	.	.	2.7
CV%	.	12.9	7.0	83.6	59.2	.	.	5.7

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

+ EAR HEIGHT DATA OBTAINED FOR ONLY ONE REPLICATION.

TABLE 5. YIELD AND AGRONOMIC DATA FROM THE 1981 NATIONAL WHITE MAIZE VARIETY TRIAL AT LAFAYETTE, IN.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
ACCO UC1800W	1	109.9	100.0	0.0	33.3	0.0	0.0	25.7
ACCO U398W	2	119.8	95.0	0.0	11.7	0.0	0.0	28.4
ASGROW RX962W	3	99.3	100.0	0.0	27.5	0.0	0.0	30.1
FUNK G-4747W-1	4	116.6	100.0	0.0	30.0	0.0	0.0	29.0
FUNK G-4768W	5	123.6	100.0	0.0	17.5	0.0	0.0	31.0
FUNK G-4787W	6	122.4	100.0	0.0	15.8	0.0	0.0	34.1
FUNK EXP 29276	7	100.5	75.0	0.0	15.0	0.0	0.0	25.7
FUNK EXP 29313	8	124.6	94.2	0.0	15.6	0.0	0.0	30.8
GOLDEN HARVEST H-2644W	9	109.7	85.8	0.0	13.3	0.0	0.0	27.9
GOLDEN HARVEST H-2660W	10	137.9	100.0	0.0	21.7	0.0	0.0	30.2
IFSI 79-5	11	125.8	90.8	0.0	41.3	0.0	0.0	27.7
IFSI 81-2	12	96.7	98.3	0.0	28.7	0.0	0.0	24.5
IFSI 81-3	13	131.9	100.0	0.0	44.2	0.0	0.0	30.0
IFSI 81-4	14	126.9	100.0	0.0	7.5	0.0	0.0	30.6
IFSI 81-5	15	128.5	100.0	0.0	40.0	0.0	0.0	23.4
IFSI 80-6	16	141.0	96.7	0.0	36.5	0.0	0.0	30.3
IFSI 81-7	17	122.2	100.0	0.0	35.8	0.0	0.0	28.7
IFSI 81-8	18	139.6	100.0	0.0	27.5	0.0	0.0	27.0
IFSI 81-9	19	117.3	100.0	0.0	26.7	0.0	0.0	27.0
IFSI 79-1	20	135.1	100.0	0.0	42.5	0.0	0.0	27.0
IFSI 77-1	21	121.6	100.0	0.0	20.0	0.0	0.0	30.3
IFSI 74-3	22	120.3	100.0	0.0	21.7	0.0	0.0	31.9
IFSI 80-13	23	115.7	100.0	0.0	25.8	0.0	0.0	25.1
JACQUES W200	24	112.6	100.0	0.0	16.7	0.0	0.0	26.6
LYNKS SC-WLA	25	152.4	100.0	0.0	28.3	0.0	0.0	29.1
LYNKS SC-WM	26	104.0	91.7	0.0	25.2	0.0	0.0	26.8
MEACHAM'S MV58	27	146.7	100.0	0.0	17.5	0.0	0.0	27.2
MEACHAM'S MV68	28	134.4	100.0	0.0	26.7	0.0	0.0	28.8
MEACHAM'S MV78	29	145.8	95.8	0.0	26.3	0.0	0.0	30.5
MEACHAM'S MV88	30	138.7	98.3	0.0	15.4	0.0	0.0	30.6
MEACHAM'S MX50	31	129.2	100.0	0.0	26.7	0.0	0.0	28.8
MFA C4W	32	102.9	100.0	0.0	29.2	0.0	0.0	28.4
NORTHROP KING X233F6	33	133.3	92.5	0.0	30.5	0.0	0.0	29.6
O'S GOLD 25501W	34	136.2	96.7	0.0	22.8	0.0	0.0	29.7
O'S GOLD 25601W	35	103.4	100.0	0.0	29.2	0.0	0.0	26.5
O'S GOLD 26201W	36	98.4	95.8	0.0	19.8	0.0	0.0	27.4
O'S GOLD 26301W	37	98.0	100.0	0.0	10.8	0.0	0.0	30.4
O'S GOLD 26501W	38	148.0	100.0	0.0	32.5	0.0	0.0	30.0
O'S GOLD 26801W	39	119.1	92.5	0.0	20.7	0.0	0.0	29.5
PIONEER BRAND 519	40	133.4	98.3	0.0	21.4	0.0	0.0	26.0

TABLE 5. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
PRINCETON SX910	41	128.6	84.2	0.0	18.6	0.0	0.0	30.0
PRINCETON SP936	42	119.8	85.8	0.0	6.7	0.0	0.0	31.0
STURDY GROW SG908W	43	112.1	100.0	0.0	16.7	0.0	0.0	25.8
STURDY GROW SG921W	44	113.9	100.0	0.0	12.5	0.0	0.0	30.0
STURDY GROW SG935W	45	145.8	100.0	0.0	18.3	0.0	0.0	31.4
STURDY GROW EXP 0641	46	109.4	87.5	0.0	33.5	0.0	0.0	27.3
STURDY GROW EXP 0668	47	96.2	100.0	0.0	16.7	0.0	0.0	26.7
STURDY GROW EXP 0695	48	106.8	95.8	0.0	17.6	0.0	0.0	28.4
STURDY GROW EXP 9649	49	129.2	100.0	0.0	25.0	0.0	0.0	26.8
TENN T1105	50	88.7	100.0	0.0	9.2	0.0	0.0	34.7
TENN T1108	51	124.5	100.0	0.0	14.2	0.0	0.0	28.5
WHISHAND 71W	52	138.8	100.0	0.0	34.2	0.0	0.0	25.0
WHISHAND 75W	53	116.0	100.0	0.0	17.5	0.0	0.0	24.4
WHISHAND 77W	54	122.6	96.7	0.0	24.8	0.0	0.0	26.2
WHISHAND 79W (GA)	55	96.4	100.0	0.0	12.5	0.0	0.0	23.9
WHISHAND 91W	56	139.3	91.7	0.0	39.9	0.0	0.0	30.1
WHISHAND EXP 2W	57	110.9	100.0	0.0	28.3	0.0	0.0	26.6
WHISHAND EXP 77-2W	58	109.1	100.0	0.0	28.3	0.0	0.0	27.1
WHISHAND EXP 77-3W	59	107.4	95.8	0.0	13.5	0.0	0.0	25.5
ZIMMERMAN Z14	60	118.1	95.8	0.0	15.5	0.0	0.0	28.8
ZIMMERMAN Z54	61	106.2	100.0	0.0	16.7	0.0	0.0	30.3
YELLOW CHECK B73 X M017	62	161.1	100.0	0.0	39.2	0.0	0.0	22.8
YELLOW CHECK M017 X N28	63	116.8	90.8	0.0	25.0	0.0	0.0	27.9
YELLOW CHECK PIONEER BRAND 3320	64	142.4	100.0	0.0	17.5	0.0	0.0	25.4
YELLOW CHECK US13	65	87.7	100.0	0.0	50.8	0.0	0.0	23.9
MEAN	.	121.1	97.3	.	23.9	.	.	28.2
LSD 0.05	.	26.4	9.1	.	18.3	.	.	2.8
CV%	.	13.4	5.7	.	47.0	.	.	6.2

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 6. YIELD AND AGRONOMIC DATA FROM THE 1981 NATIONAL WHITE MAIZE VARIETY TRIAL AT UNION CITY, TN.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
ACCO UC1800W	1	134.0	103.3	7.6	4.9	0.0	0.0	15.7
ACCO U39CW	2	143.7	102.8	0.0	1.6	0.0	0.0	17.3
ASGROW RX962W	3	150.4	103.3	8.0	0.0	0.0	0.0	17.8
FUNK G-4747W-1	4	144.7	106.1	6.8	0.0	0.0	0.0	16.9
FUNK G-4768W	5	149.7	103.3	1.1	3.5	0.0	0.0	18.7
FUNK G-4787W	6	141.7	97.8	0.0	2.3	0.0	0.0	17.7
FUNK EXP 29276	7	88.3	61.1	0.0	10.1	0.0	0.0	16.6
FUNK EXP 29313	8	155.8	99.4	14.9	0.0	0.0	0.0	17.2
GOLDEN HARVEST H-2644W	9	105.9	91.7	6.8	3.7	0.0	0.0	15.6
GOLDEN HARVEST H-2660W	10	143.3	102.8	12.4	2.2	0.0	0.0	17.7
IFSI 79-5	11	131.2	95.0	4.7	6.4	0.0	0.0	15.8
IFSI 81-2	12	104.4	101.1	13.3	3.4	0.0	0.0	15.6
IFSI 81-3	13	162.4	107.8	0.0	7.3	0.0	0.0	17.8
IFSI 81-4	14	137.2	110.6	4.0	3.0	0.0	0.0	17.1
IFSI 81-5	15	164.9	112.2	2.9	2.0	0.0	0.0	15.6
IFSI 80-6	16	155.3	100.0	1.2	1.6	0.0	0.0	17.1
IFSI 81-7	17	136.4	111.7	1.8	0.0	0.0	0.0	18.0
IFSI 81-8	18	136.2	103.9	1.1	1.1	0.0	0.0	15.5
IFSI 81-9	19	143.1	109.4	1.9	4.6	0.0	0.0	17.6
IFSI 79-1	20	137.0	106.1	5.3	6.8	0.0	0.0	15.9
IFSI 77-1	21	145.0	98.9	3.5	0.5	0.0	0.0	18.0
IFSI 74-3	22	134.6	99.4	2.9	2.8	0.0	0.0	18.4
IFSI 80-13	23	130.6	109.4	0.0	1.0	0.0	0.0	15.0
JACQUES H200	24	130.1	107.8	5.4	6.3	0.0	0.0	15.6
LYNKS SC-WLA	25	148.6	107.8	24.0	0.5	0.0	0.0	18.0
LYNKS SC-WM	26	139.4	106.1	6.8	3.7	0.0	0.0	15.3
MEACHAM'S MV58	27	182.5	103.9	6.2	1.1	0.0	0.0	16.7
MEACHAM'S MV68	28	115.8	93.9	0.0	1.1	0.0	0.0	15.0
MEACHAM'S MV78	29	154.1	104.4	5.7	9.6	0.0	0.0	17.6
MEACHAM'S MV88	30	179.5	102.2	1.7	4.3	0.0	0.0	17.7
MEACHAM'S MX50	31	144.7	104.4	10.4	1.1	0.0	0.0	16.7
MFA C4W	32	136.1	101.1	2.9	3.8	0.0	0.0	17.0
NORTHROP KING X233F6	33	150.6	104.4	8.0	5.7	0.0	0.0	17.9
O'S GOLD 25501W	34	154.3	103.9	7.7	1.1	0.0	0.0	16.9
O'S GOLD 25601W	35	102.8	98.9	3.4	2.8	0.0	0.0	15.4
O'S GOLD 26201W	36	128.9	98.3	0.0	2.8	0.0	0.0	15.2
O'S GOLD 26301W	37	107.2	103.3	1.5	1.1	0.0	0.0	17.4
O'S GOLD 26501W	38	137.9	100.6	5.6	3.3	0.0	0.0	18.3
O'S GOLD 26801W	39	155.6	107.2	6.3	2.6	0.0	0.0	17.4
PIONEER BRAND 519	40	177.2	106.1	3.2	1.0	0.0	0.0	16.5

TABLE 6. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
PRINCETON SX910	41	145.9	101.7	0.0	3.8	0.0	0.0	17.2
PRINCETON SP936	42	157.1	98.9	4.8	0.0	0.0	0.0	16.7
STURDY GROW SG908W	43	129.3	100.6	1.8	6.2	0.0	0.0	15.5
STURDY GROW SG921W	44	126.8	97.2	1.8	1.1	0.0	0.0	16.7
STURDY GROW SG935W	45	142.0	100.6	2.7	2.2	0.0	0.0	17.0
STURDY GROW EXP 0641	46	168.7	110.6	0.0	1.9	0.0	0.0	16.0
STURDY GROW EXP 0668	47	114.1	104.4	0.0	5.9	0.0	0.0	14.9
STURDY GROW EXP 0695	48	155.4	92.8	0.0	2.6	0.0	0.0	15.3
STURDY GROW EXP 9649	49	149.2	100.6	0.0	2.9	0.0	0.0	16.7
TENN T1105	50	144.8	115.0	6.1	2.4	0.0	0.0	17.9
TENN T1108	51	157.2	106.7	10.5	2.6	0.0	0.0	17.0
WHISNAND 71W	52	122.8	107.2	7.3	5.2	0.0	0.0	15.5
WHISNAND 75W	53	130.4	102.8	10.0	2.1	0.0	0.0	15.7
WHISNAND 77W	54	137.4	102.8	4.1	7.6	0.0	0.0	15.9
WHISNAND 79W (GA)	55	121.3	99.4	0.6	5.0	0.0	0.0	14.8
WHISNAND 91W	56	139.9	99.4	0.6	4.5	0.0	0.0	17.4
WHISNAND EXP 2W	57	147.6	104.4	12.3	3.2	0.0	0.0	15.8
WHISNAND EXP 77-2W	58	143.8	96.1	12.7	5.2	0.0	0.0	15.9
WHISNAND EXP 77-3W	59	146.4	102.2	17.1	1.0	0.0	0.0	15.4
ZIMMERMAN Z14	60	164.8	103.9	8.4	3.8	0.0	0.0	18.2
ZIMMERMAN Z54	61	165.4	117.8	0.0	2.0	0.0	0.0	17.7
YELLOW CHECK B73 X M017	62	133.3	96.1	6.5	1.9	0.0	0.0	15.2
YELLOW CHECK M017 X N28	63	129.7	102.8	8.5	10.7	0.0	0.0	15.8
YELLOW CHECK PIONEER BRAND 3320	64	148.9	100.6	0.0	0.5	0.0	0.0	16.5
YELLOW CHECK US13	65	85.4	105.6	9.6	8.8	0.0	0.0	15.1
MEAN	.	140.4	102.5	5.0	3.3	.	.	16.6
LSD 0.05	.	32.1	12.4	.	5.6	.	.	0.9
CV%	.	14.0	7.4	.	104.3	.	.	3.4

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 7. YIELD AND AGRONOMIC DATA FROM THE 1981 NATIONAL WHITE MAIZE VARIETY TRIAL AT KNOXVILLE, TN.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN+	DAY FLWR+	MOIST %
ACCO UC1800W	1	146.7	100.0	0.0	7.9	59.5	69.0	19.1
ACCO U398W	2	166.4	101.1	0.0	2.2	54.6	72.7	21.5
ASGROW RX962W	3	158.5	100.0	0.0	3.3	59.5	71.0	22.1
FUNK G-4747W-1	4	176.8	102.2	0.0	5.3	58.5	72.0	21.7
FUNK G-4768W	5	157.6	100.0	0.0	7.8	52.6	72.0	23.4
FUNK G-4787W	6	123.9	102.2	1.1	2.1	55.6	74.0	21.4
FUNK EXP 29276	7	101.7	93.3	0.0	1.3	51.6	71.0	21.4
FUNK EXP 29313	8	153.4	101.1	1.1	4.4	61.5	71.0	21.1
GOLDEN HARVEST H-2644W	9	129.6	96.7	0.0	0.0	42.0	65.7	18.8
GOLDEN HARVEST H-2660W	10	171.5	98.9	0.0	5.7	61.5	72.0	20.9
IFSI 79-5	11	153.5	96.7	0.0	0.0	49.8	70.0	19.2
IFSI 81-2	12	156.0	96.7	0.0	3.3	42.9	68.7	19.9
IFSI 81-3	13	171.8	103.3	0.0	3.2	56.5	70.3	22.1
IFSI 81-4	14	153.3	101.1	0.0	1.1	48.7	70.0	22.1
IFSI 81-5	15	149.1	106.7	0.0	1.0	55.6	69.0	19.9
IFSI 80-6	16	163.4	103.3	0.0	1.0	58.5	69.0	21.8
IFSI 81-7	17	168.3	98.9	1.1	1.1	53.7	69.7	21.5
IFSI 81-8	18	144.9	103.3	0.0	1.1	52.6	69.0	17.8
IFSI 81-9	19	160.3	104.4	0.0	1.1	42.9	69.0	21.8
IFSI 79-1	20	148.1	101.1	0.0	2.2	60.4	69.7	20.6
IFSI 77-1	21	161.6	102.2	0.0	6.6	62.4	72.0	21.1
IFSI 74-7	22	144.1	101.1	0.0	2.2	58.5	72.0	21.2
IFSI 80-13	23	143.1	98.9	0.0	0.0	48.7	66.0	17.3
JACQUES W200	24	161.3	101.1	0.0	5.5	50.7	68.7	18.7
LYNKS SC-WLA	25	185.0	94.4	0.0	0.0	60.4	71.7	21.5
LYNKS SC-WM	26	157.1	98.9	0.0	4.6	54.6	67.7	19.0
MEACHAM'S MV58	27	160.5	98.9	0.0	0.0	56.5	69.0	22.0
MEACHAM'S MV68	28	148.5	98.9	0.0	2.2	40.0	65.3	18.6
MEACHAM'S MV78	29	175.8	101.1	0.0	4.4	59.5	71.7	21.9
MEACHAM'S MV88	30	153.5	100.0	0.0	2.2	59.5	71.7	20.8
MEACHAM'S MX50	31	152.6	101.1	0.0	0.0	49.8	71.0	21.0
MFA C4W	32	156.7	98.9	0.0	5.8	47.8	71.0	21.5
NORTHTRUP KING X233F6	33	170.4	100.0	0.0	5.6	58.5	70.0	20.6
O'S GOLD 25501W	34	161.2	105.6	0.0	0.0	58.5	70.0	21.2
O'S GOLD 25601W	35	148.9	98.9	1.1	8.7	63.4	68.7	18.4
O'S GOLD 26201W	36	146.7	100.0	0.0	1.1	40.0	66.0	18.4
O'S GOLD 26301W	37	135.4	103.3	0.0	1.1	50.7	72.0	22.1
O'S GOLD 26501W	38	165.5	100.0	0.0	1.1	59.5	71.7	21.7
O'S GOLD 26801W	39	151.0	100.0	0.0	2.2	60.4	72.0	21.3
PIONEER BRAND 519	40	135.6	102.2	0.0	1.1	53.7	71.0	20.2

TABLE 7. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN+	DAY FLWR+	MOIST %
PRINCETON SX910	41	174.3	101.1	0.0	3.3	56.5	71.7	21.9
PRINCETON SP936	42	175.1	98.9	0.0	1.1	61.5	72.0	21.4
STURDY GROW SG908W	43	150.3	100.0	1.1	8.9	61.5	69.0	19.6
STURDY GROW SG921W	44	134.3	102.2	0.0	0.0	48.7	71.0	21.5
STURDY GROW SG935W	45	143.9	101.1	1.1	1.1	58.5	71.7	21.3
STURDY GROW EXP 0641	46	150.2	102.2	0.0	2.2	48.7	68.7	19.9
STURDY GROW EXP 0668	47	132.9	102.2	0.0	6.2	40.9	65.0	18.8
STURDY GROW EXP 0695	48	139.7	98.9	0.0	3.3	42.9	67.7	18.2
STURDY GROW EXP 9649	49	157.4	98.9	0.0	0.0	58.5	71.7	21.7
TENN T1105	50	133.0	97.8	1.1	2.2	47.8	73.0	22.3
TENN T1108	51	154.1	98.9	0.0	0.0	51.7	71.0	22.7
WHISNAND 71W	52	168.8	102.2	0.0	5.5	55.6	70.7	19.9
WHISNAND 75W	53	142.3	98.9	0.0	2.3	51.7	68.0	18.0
WHISNAND 77W	54	154.1	98.9	1.1	3.4	53.7	67.7	18.2
WHISNAND 79W (GA)	55	116.5	100.0	0.0	3.4	55.6	67.0	17.2
WHISNAND 91W	56	174.1	100.0	0.0	5.5	59.5	71.0	21.6
WHISNAND EXP 2W	57	154.4	97.8	0.0	2.3	55.6	66.7	19.6
WHISNAND EXP 77-2W	58	153.8	97.8	0.0	4.5	51.7	69.0	20.0
WHISNAND EXP 77-3W	59	131.4	97.8	0.0	0.0	51.7	68.0	18.4
ZIMMERMAN Z14	60	154.0	101.1	0.0	2.2	51.7	70.0	22.3
ZIMMERMAN Z54	61	133.9	103.3	0.0	0.0	46.8	70.0	22.3
YELLOW CHECK B73 X M017	62	161.9	108.9	0.0	0.0	48.7	67.0	16.7
YELLOW CHECK M017 X N28	63	160.7	102.2	0.0	1.1	48.7	67.7	20.7
YELLOW CHECK PIONEER BRAND 3320	64	148.3	102.2	0.0	1.1	45.9	68.0	19.3
YELLOW CHECK US13	65	145.6	103.3	0.0	17.2	59.5	68.0	17.6
MEAN	.	152.5	100.5	0.1	2.9	53.6	69.8	20.4
LSD 0.05	.	20.6	.	.	5.8	5.5	2.3	0.8
CV%	.	8.3	.	.	123.4	5.1	1.6	2.5

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

+ EAR HEIGHT AND FLOWERING DATA OBTAINED FOR ONLY TWO REPLICATIONS.

TABLE 8. YIELD AND AGRONOMIC DATA FROM THE 1981 NATIONAL WHITE MAIZE VARIETY TRIAL AT MANHATTAN, KS.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
ACCO UC1800W	1	96.8	85.4	0.0	0.5	46.3	77.7	17.5
ACCO U398W	2	128.8	84.9	0.0	1.8	50.3	77.3	19.6
ASGROW RX962W	3	115.5	111.5	0.0	1.7	49.7	77.7	19.6
FUNK G-4747W-1	4	136.5	116.1	0.0	0.4	47.7	79.0	19.8
FUNK G-4768W	5	134.4	116.1	0.0	2.2	52.7	76.7	21.2
FUNK G-4787W	6	137.2	101.0	0.0	1.0	49.0	76.0	19.8
FUNK EXP 29276	7	55.3	37.0	0.0	1.4	51.3	79.3	21.9
FUNK EXP 29313	8	134.1	99.5	0.0	1.0	45.0	78.0	19.1
GOLDEN HARVEST H-2644W	9	73.8	87.0	0.0	1.3	34.3	79.3	18.1
GOLDEN HARVEST H-2660W	10	123.6	98.4	0.0	2.1	50.0	75.7	20.2
IFSI 79-5	11	87.9	76.0	0.0	0.6	43.0	77.7	17.4
IFSI 81-2	12	85.8	90.1	0.0	0.6	35.0	80.3	17.7
IFSI 81-3	13	109.7	102.1	0.0	1.5	48.0	78.7	19.7
IFSI 81-4	14	130.1	100.5	0.5	0.0	39.7	81.0	21.2
IFSI 81-5	15	137.2	100.0	0.0	0.0	47.3	81.0	16.9
IFSI 80-6	16	142.5	99.5	0.0	1.0	48.7	79.3	18.3
IFSI 81-7	17	97.7	79.7	0.0	0.0	43.3	79.0	20.1
IFSI 81-8	18	85.2	92.7	0.0	1.1	37.7	80.0	16.4
IFSI 81-9	19	94.6	87.0	0.0	0.5	38.3	80.0	19.2
IFSI 79-1	20	110.0	100.5	0.0	2.1	48.3	78.0	18.3
IFSI 77-1	21	118.8	92.2	0.0	1.2	50.0	79.0	19.3
IFSI 74-3	22	113.1	95.3	0.0	1.6	47.3	77.7	19.4
IFSI 80-13	23	92.8	88.0	0.0	0.7	42.0	80.3	16.7
JACQUES W200	24	93.9	96.4	0.0	1.1	45.0	80.7	16.4
LYNKS SC-WLA	25	110.5	73.4	2.6	0.5	49.0	77.7	19.1
LYNKS SC-WM	26	92.4	98.4	0.0	1.6	45.0	79.3	18.0
MEACHAM'S MV58	27	143.0	96.4	0.0	1.7	46.3	80.0	18.4
MEACHAM'S MV68	28	90.1	103.6	0.0	1.0	32.0	82.7	16.7
MEACHAM'S MV78	29	134.0	94.3	0.0	2.4	43.7	77.7	20.3
MEACHAM'S MV88	30	149.1	98.4	0.0	0.5	53.7	76.3	19.3
MEACHAM'S MX50	31	115.1	92.2	0.0	1.1	44.0	78.0	19.1
MFA C4W	32	134.4	105.2	0.0	1.5	47.3	78.0	19.6
NORTHROP KING X233F6	33	142.7	87.5	0.7	2.2	46.7	75.3	20.8
O'S GOLD 25501W	34	135.2	97.4	0.0	0.5	42.3	78.3	18.5
O'S GOLD 25601W	35	116.5	105.7	0.0	1.5	47.7	81.3	18.7
O'S GOLD 26201W	36	88.3	92.7	0.0	1.6	34.0	81.7	17.3
O'S GOLD 26301W	37	104.6	97.9	0.0	0.0	43.3	78.3	21.5
O'S GOLD 26501W	38	111.1	100.5	0.0	1.9	47.7	76.3	20.0
O'S GOLD 26801W	39	127.9	99.5	0.0	2.1	42.7	77.0	20.6
PIONEER BRAND 519	40	134.4	94.3	0.0	1.1	47.0	78.3	18.4

TABLE 8. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
PRINCETON SX910	41	117.0	96.4	0.0	3.6	48.3	78.3	19.1
PRINCETON SP936	42	124.0	96.4	0.0	1.1	48.3	78.3	21.6
STURDY GROW SG908W	43	93.0	93.2	0.0	0.6	45.7	80.7	17.8
STURDY GROW SG921W	44	123.6	97.4	0.0	1.1	45.7	78.0	21.3
STURDY GROW SG935W	45	120.9	89.6	0.0	0.0	50.0	77.7	20.4
STURDY GROW EXP 0641	46	109.5	92.2	0.0	0.6	45.7	81.7	17.5
STURDY GROW EXP 0668	47	108.7	94.8	0.0	1.6	32.3	83.3	16.8
STURDY GROW EXP 0695	48	88.7	90.6	0.0	0.0	33.3	83.3	18.2
STURDY GROW EXP 9649	49	126.1	99.5	0.0	0.5	45.3	80.3	18.8
TENN T1105	50	120.4	105.7	0.0	3.1	48.7	73.7	19.8
TENN T1108	51	90.0	90.1	0.0	0.0	48.3	78.7	20.2
WHISNAND 71W	52	107.9	104.7	0.0	0.0	48.7	80.0	20.5
WHISNAND 75W	53	90.9	100.5	0.0	0.4	42.0	81.3	17.4
WHISNAND 77W	54	102.3	101.6	0.0	2.0	42.3	79.7	17.2
WHISNAND 79W (GA)	55	56.7	87.5	0.5	0.0	41.7	81.0	17.3
WHISNAND 91W	56	102.2	97.9	0.0	0.6	48.7	78.0	19.7
WHISNAND EXP 2W	57	125.6	100.0	0.0	1.5	42.7	82.3	17.4
WHISNAND EXP 77-2W	58	82.7	95.3	0.0	1.1	42.3	81.0	17.5
WHISNAND EXP 77-3W	59	90.7	99.5	0.0	0.5	45.7	81.3	17.7
ZIMMERMAN Z14	60	146.8	85.4	0.0	0.6	46.3	79.7	20.2
ZIMMERMAN Z54	61	103.7	104.2	0.0	0.5	42.7	76.7	19.5
YELLOW CHECK B73 X M017	62	117.2	97.4	0.0	0.5	43.3	82.7	16.5
YELLOW CHECK M017 X H28	63	107.8	96.9	0.0	0.0	39.0	80.7	17.7
YELLOW CHECK PIONEER BRAND 3320	64	127.5	94.8	0.0	0.0	38.7	79.0	17.6
YELLOW CHECK US13	65	75.6	103.1	0.0	3.0	43.7	79.3	17.3
MEAN	.	111.1	95.2	0.1	1.1	44.6	79.1	18.8
LSD 0.05	.	32.2	19.1	0.7	.	6.7	2.5	2.3
CV%	.	17.7	12.3	695.0	.	9.2	1.9	7.5

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 9. YIELD AND AGRONOMIC DATA FROM THE 1981 NATIONAL WHITE MAIZE VARIETY TRIAL AT ROSSVILLE, KS.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
ACCO UC1800W	1	124.5	82.8	0.0	3.0	46.3	73.3	19.5
ACCO U398W	2	116.1	69.9	2.6	1.6	48.3	77.0	21.8
ASGROW RX962W	3	136.5	76.9	0.0	3.5	46.7	76.7	21.9
FUNK G-4747W-1	4	151.4	83.3	0.7	1.8	45.0	78.0	22.9
FUNK G-4768W	5	158.0	86.6	6.3	2.2	49.7	78.0	22.7
FUNK G-4787W	6	140.7	72.6	1.5	0.8	47.0	79.7	22.5
FUNK EXP 29276	7	80.5	57.0	0.0	0.7	45.7	78.0	20.9
FUNK EXP 29513	8	114.1	75.8	3.4	3.8	43.3	74.3	21.1
GOLDEN HARVEST H-2644W	9	102.4	68.8	0.9	3.3	37.7	73.3	19.3
GOLDEN HARVEST H-2660W	10	120.2	76.3	10.8	3.5	51.0	78.0	22.4
IFSI 79-5	11	133.7	72.6	0.0	2.8	41.3	75.3	20.5
IFSI 81-2	12	130.8	74.7	0.7	0.0	37.3	73.3	20.8
IFSI 81-3	13	144.0	78.0	0.0	5.6	45.0	75.3	22.7
IFSI 81-4	14	118.0	81.7	4.5	0.0	37.0	74.0	22.6
IFSI 81-5	15	140.7	83.3	0.0	0.7	40.0	74.7	18.8
IFSI 80-6	16	137.8	90.9	1.1	4.2	40.0	73.0	21.0
IFSI 81-7	17	137.4	82.8	0.0	2.7	43.3	78.3	22.6
IFSI 81-8	18	111.7	84.9	2.0	2.5	41.0	74.0	19.5
IFSI 81-9	19	144.8	90.9	0.0	1.2	47.0	75.0	20.9
IFSI 79-1	20	123.4	83.9	0.0	1.9	41.0	73.7	20.3
IFSI 77-1	21	116.8	79.6	0.0	3.9	43.3	76.7	22.8
IFSI 74-3	22	113.9	78.0	1.3	2.2	47.3	77.7	21.3
IFSI 80-13	23	108.7	78.5	7.5	0.7	37.7	78.0	18.8
JACQUES W200	24	142.0	82.8	2.7	1.4	41.0	72.7	19.1
LYNKS SC-WLA	25	141.8	83.3	1.7	4.6	50.7	77.7	21.9
LYNKS SC-WH	26	133.0	87.6	0.0	5.7	47.0	72.0	19.0
MEACHAM'S MV58	27	148.6	79.0	0.0	3.5	46.3	74.3	21.4
MEACHAM'S MV68	28	110.5	87.6	0.6	3.1	36.0	72.0	19.8
MEACHAM'S MV78	29	148.6	74.2	2.1	1.4	47.7	76.7	22.8
MEACHAM'S MV88	30	133.9	80.1	0.7	2.9	46.3	77.7	22.2
MEACHAM'S MX50	31	119.1	77.4	2.5	2.9	43.3	76.0	21.2
MFA C4W	32	127.3	71.5	0.0	7.7	44.3	77.0	21.1
NORTRUP KING X233F6	33	135.6	83.3	0.0	3.7	50.3	78.3	22.3
O'S GOLD 25501W	34	148.0	81.2	7.6	1.3	43.3	74.7	21.2
O'S GOLD 25601W	35	120.3	78.5	0.7	5.7	50.3	73.3	20.2
O'S GOLD 26201W	36	116.4	84.4	0.7	1.9	34.7	76.0	20.0
O'S GOLD 26301W	37	107.6	85.5	4.2	3.9	45.7	76.0	22.6
O'S GOLD 26501W	38	125.1	79.0	0.0	5.4	48.0	78.3	22.9
O'S GOLD 26801W	39	132.6	67.7	7.5	1.8	46.3	80.0	22.6
PIONEER BRAND 519	40	131.6	80.1	0.7	2.7	45.0	76.0	19.6

TABLE 9. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
PRINCETON SX910	41	131.7	72.0	3.3	4.2	47.7	78.7	22.6
PRINCETON SP936	42	113.7	57.5	3.5	2.9	45.0	78.0	22.1
STURDY GROW SG908W	43	106.8	80.6	0.0	2.7	44.7	72.3	19.7
STURDY GROW SG921W	44	119.9	83.9	3.2	2.4	41.0	77.0	22.4
STURDY GROW SG935W	45	133.2	69.9	5.7	2.7	46.7	77.7	22.1
STURDY GROW EXP 0641	46	128.9	79.0	0.0	1.3	39.7	72.0	19.9
STURDY GROW EXP 0668	47	98.6	73.7	2.2	4.4	34.7	71.3	19.3
STURDY GROW EXP 0695	48	100.2	81.7	0.0	3.3	35.3	69.3	19.6
STURDY GROW EXP 9649	49	146.1	82.3	1.3	2.0	48.7	74.3	21.4
TENN T1105	50	125.9	86.0	0.5	2.6	44.3	79.7	21.6
TENN T1108	51	136.5	80.6	2.0	4.0	38.7	78.0	22.3
WHISNAND 71W	52	126.3	79.6	0.6	3.8	43.3	71.3	19.1
WHISNAND 75W	53	125.7	81.7	0.6	6.7	43.7	74.0	19.1
WHISNAND 77W	54	123.9	79.6	0.7	4.2	41.0	73.3	19.1
WHISNAND 79W (GA)	55	77.9	81.2	2.7	2.0	41.7	72.0	17.7
WHISNAND 91W	56	140.6	89.2	4.7	2.4	48.0	77.3	22.3
WHISNAND EXP 2W	57	119.2	77.4	0.0	5.0	42.3	72.0	18.7
WHISNAND EXP 77-2W	58	125.8	76.9	0.6	2.6	42.0	73.3	19.3
WHISNAND EXP 77-3W	59	89.9	72.0	2.9	2.3	49.0	78.3	19.0
ZIMMERMAN Z14	60	129.0	65.1	8.7	1.8	49.3	75.7	22.5
ZIMMERMAN Z54	61	129.6	78.5	5.4	0.7	46.0	76.0	21.4
YELLOW CHECK B73 X M017	62	125.5	71.0	0.0	1.5	43.0	71.3	18.3
YELLOW CHECK M017 X N28	63	127.8	81.7	0.0	1.9	43.3	73.3	19.3
YELLOW CHECK PIONEER BRAND 3320	64	139.8	78.0	5.0	2.1	38.0	75.0	20.2
YELLOW CHECK US13	65	105.1	83.3	3.1	11.5	42.3	72.7	17.8
MEAN	.	125.5	78.7	2.0	3.0	43.8	75.4	20.8
LSD 0.05	.	18.6	14.2	.	4.0	7.4	4.2	1.2
CV%	.	9.1	11.0	.	83.4	10.3	3.4	3.6

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 10. YIELD AND AGRONOMIC DATA FROM THE 1981 NATIONAL WHITE MAIZE VARIETY TRIAL AT TROY, KS.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
ACCO UC1800W	1	77.5	0.0	0.0	0.0	0.0	81.0	20.0
ACCO U398W	2	115.8	0.0	0.0	0.0	0.0	79.7	21.5
ASGROW RX962W	3	109.4	0.0	0.0	0.0	0.0	81.0	21.7
FUNK G-4747W-1	4	100.9	0.0	0.0	0.0	0.0	80.3	23.8
FUNK G-4768W	5	92.1	0.0	0.0	0.0	0.0	77.3	24.1
FUNK G-4787W	6	78.0	0.0	0.0	0.0	0.0	76.7	23.1
FUNK EXP 29276	7	69.9	0.0	0.0	0.0	0.0	76.3	22.7
FUNK EXP 29313	8	95.4	0.0	0.0	0.0	0.0	79.0	21.4
GOLDEN HARVEST H-2644W	9	99.8	0.0	0.0	0.0	0.0	86.3	19.9
GOLDEN HARVEST H-2660W	10	99.3	0.0	0.0	0.0	0.0	77.0	23.0
IFSI 79-5	11	113.3	0.0	0.0	0.0	0.0	80.7	20.2
IFSI 81-2	12	90.8	0.0	0.0	0.0	0.0	83.7	20.5
IFSI 81-3	13	94.7	0.0	0.0	0.0	0.0	80.3	20.8
IFSI 81-4	14	90.0	0.0	0.0	0.0	0.0	82.3	21.7
IFSI 81-5	15	90.8	0.0	0.0	0.0	0.0	83.7	20.2
IFSI 80-6	16	105.7	0.0	0.0	0.0	0.0	81.3	20.0
IFSI 81-7	17	123.5	0.0	0.0	0.0	0.0	83.0	22.2
IFSI 81-8	18	108.3	0.0	0.0	0.0	0.0	78.7	19.4
IFSI 81-9	19	97.5	0.0	0.0	0.0	0.0	82.3	20.8
IFSI 79-1	20	85.7	0.0	0.0	0.0	0.0	80.3	19.9
IFSI 77-1	21	106.0	0.0	0.0	0.0	0.0	82.3	22.4
IFSI 74-3	22	96.5	0.0	0.0	0.0	0.0	82.3	22.1
IFSI 80-13	23	93.8	0.0	0.0	0.0	0.0	83.3	18.4
JACQUES W200	24	117.4	0.0	0.0	0.0	0.0	82.7	18.6
LYNKS SC-WLA	25	107.1	0.0	0.0	0.0	0.0	77.3	22.6
LYNKS SC-WM	26	103.4	0.0	0.0	0.0	0.0	84.0	19.8
MEACHAM'S MV58	27	116.3	0.0	0.0	0.0	0.0	83.0	20.9
MEACHAM'S MV68	28	86.6	0.0	0.0	0.0	0.0	82.7	20.2
MEACHAM'S MV78	29	89.2	0.0	0.0	0.0	0.0	78.0	21.8
MEACHAM'S MV88	30	102.6	0.0	0.0	0.0	0.0	79.3	22.7
MEACHAM'S MX50	31	114.2	0.0	0.0	0.0	0.0	80.0	21.2
MFA C4W	32	96.3	0.0	0.0	0.0	0.0	81.0	21.3
NORTRUP KING X233F6	33	117.5	0.0	0.0	0.0	0.0	79.0	22.8
O'S GOLD 25501W	34	122.9	0.0	0.0	0.0	0.0	81.7	20.6
O'S GOLD 25601W	35	86.5	0.0	0.0	0.0	0.0	80.0	21.5
O'S GOLD 26201W	36	94.8	0.0	0.0	0.0	0.0	86.0	19.5
O'S GOLD 26301W	37	97.9	0.0	0.0	0.0	0.0	81.0	21.7
O'S GOLD 26501W	38	98.0	0.0	0.0	0.0	0.0	82.3	21.3
O'S GOLD 26801W	39	97.0	0.0	0.0	0.0	0.0	80.0	21.7
PIONEER BRAND 519	40	131.1	0.0	0.0	0.0	0.0	81.3	18.3

TABLE 10. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
PRINCETON SX910	41	105.1	0.0	0.0	0.0	0.0	83.3	21.9
PRINCETON SP936	42	102.0	0.0	0.0	0.0	0.0	79.7	21.3
STURDY GROW SG908W	43	105.5	0.0	0.0	0.0	0.0	81.3	19.5
STURDY GROW SG921W	44	103.8	0.0	0.0	0.0	0.0	80.3	23.3
STURDY GROW SG935W	45	104.0	0.0	0.0	0.0	0.0	77.7	22.3
STURDY GROW EXP 0641	46	88.0	0.0	0.0	0.0	0.0	84.7	20.1
STURDY GROW EXP 0668	47	87.5	0.0	0.0	0.0	0.0	84.3	18.9
STURDY GROW EXP 0695	48	111.5	0.0	0.0	0.0	0.0	85.0	19.5
STURDY GROW EXP 9649	49	121.4	0.0	0.0	0.0	0.0	81.3	20.1
TENN T1105	50	97.4	0.0	0.0	0.0	0.0	73.0	22.7
TENN T1108	51	103.8	0.0	0.0	0.0	0.0	82.0	21.7
WHISNAND 71W	52	104.0	0.0	0.0	0.0	0.0	83.3	21.6
WHISNAND 75W	53	103.0	0.0	0.0	0.0	0.0	82.7	19.6
WHISNAND 77W	54	100.8	0.0	0.0	0.0	0.0	84.7	19.2
WHISNAND 79W (GA)	55	71.3	0.0	0.0	0.0	0.0	84.7	18.0
WHISNAND 91W	56	123.7	0.0	0.0	0.0	0.0	81.3	23.0
WHISNAND EXP 2W	57	97.7	0.0	0.0	0.0	0.0	86.3	18.1
WHISNAND EXP 77-2W	58	108.4	0.0	0.0	0.0	0.0	85.7	19.1
WHISNAND EXP 77-3W	59	69.2	0.0	0.0	0.0	0.0	83.7	19.4
ZIMMERMAN Z14	60	103.3	0.0	0.0	0.0	0.0	84.3	22.3
ZIMMERMAN Z54	61	120.3	0.0	0.0	0.0	0.0	83.0	21.3
YELLOW CHECK B73 X M017	62	88.1	0.0	0.0	0.0	0.0	87.0	19.2
YELLOW CHECK M017 X N28	63	107.9	0.0	0.0	0.0	0.0	85.0	19.7
YELLOW CHECK PIONEER BRAND 3320	64	100.7	0.0	0.0	0.0	0.0	86.0	19.4
YELLOW CHECK US13	65	75.0	0.0	0.0	0.0	0.0	86.0	19.1
MEAN	.	100.3	.	.	.	.	81.8	20.9
LSD 0.05	.	32.1	.	.	.	.	5.0	1.9
CV%	.	19.6	.	.	.	.	3.7	5.5

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 11. YIELD AND AGRONOMIC DATA FROM THE 1981 NATIONAL WHITE MAIZE VARIETY TRIAL AT LEXINGTON, KY.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
ACCO UC1800W	1	139.8	95.3	42.6	3.7	0.0	76.0	20.7
ACCO U398W	2	134.6	85.9	40.2	1.6	0.0	77.0	22.5
ASGROW RX962W	3	147.8	94.3	31.6	1.8	0.0	77.3	23.6
FUNK G-4747W-1	4	148.9	100.0	23.5	1.6	0.0	76.7	22.7
FUNK G-4768W	5	121.3	96.9	40.7	0.0	0.0	78.0	24.4
FUNK G-4787W	6	117.6	89.6	42.1	2.9	0.0	82.7	27.6
FUNK EXP 29276	7	57.2	34.9	5.4	0.0	0.0	77.3	23.4
FUNK EXP 29313	8	145.6	88.0	14.4	1.8	0.0	79.7	23.2
GOLDEN HARVEST H-2644W	9	128.2	76.6	1.3	7.5	0.0	75.3	22.2
GOLDEN HARVEST H-2660W	10	138.5	90.6	47.3	1.6	0.0	78.3	22.9
IFSI 79-5	11	125.7	89.1	31.5	2.3	0.0	77.0	21.0
IFSI 81-2	12	112.9	88.5	46.3	1.1	0.0	77.0	19.0
IFSI 81-3	13	148.0	92.7	9.5	10.0	0.0	76.7	23.4
IFSI 81-4	14	145.3	84.9	11.4	6.3	0.0	76.7	25.7
IFSI 81-5	15	164.4	96.9	10.9	2.7	0.0	76.3	21.4
IFSI 80-6	16	166.4	99.0	3.6	2.7	0.0	76.7	23.0
IFSI 81-7	17	168.9	97.9	2.7	3.2	0.0	76.7	23.0
IFSI 81-8	18	155.8	97.9	9.7	5.3	0.0	76.7	20.3
IFSI 81-9	19	154.8	96.4	9.7	0.6	0.0	77.3	19.8
IFSI 79-1	20	125.8	97.4	34.4	8.5	0.0	77.0	20.5
IFSI 77-1	21	142.2	90.6	25.3	1.1	0.0	77.7	24.6
IFSI 74-3	22	120.4	91.1	29.1	2.8	0.0	78.0	24.0
IFSI 80-13	23	137.3	101.6	6.2	1.0	0.0	76.0	19.9
JACQUES W200	24	131.6	93.7	35.5	4.3	0.0	76.3	17.5
LYNKS SC-WLA	25	149.9	89.6	45.5	5.3	0.0	78.3	22.5
LYNKS SC-WM	26	133.2	92.7	31.6	9.2	0.0	76.3	20.7
MEACHAM'S MV58	27	152.5	93.7	13.6	1.1	0.0	77.3	22.7
MEACHAM'S MV68	28	157.0	102.1	0.5	5.1	0.0	73.3	21.4
MEACHAM'S MV78	29	151.6	82.3	62.9	1.2	0.0	78.3	21.3
MEACHAM'S MV88	30	140.1	92.2	40.4	6.2	0.0	77.7	24.9
MEACHAM'S MX50	31	125.7	91.1	53.9	1.9	0.0	78.7	22.4
MFA C4W	32	126.8	85.4	69.1	2.5	0.0	78.7	21.5
NORTHRUP KING X233F6	33	144.5	91.7	41.0	1.6	0.0	80.3	23.1
O'S GOLD 25501W	34	137.3	86.5	34.9	4.6	0.0	76.7	21.8
O'S GOLD 25601W	35	148.3	93.7	25.4	7.5	0.0	76.3	21.2
O'S GOLD 26201W	36	149.7	98.4	2.1	6.2	0.0	75.0	19.9
O'S GOLD 26301W	37	134.9	93.7	22.7	1.6	0.0	76.7	23.7
O'S GOLD 26501W	38	144.4	97.4	44.7	1.5	0.0	78.7	24.1
O'S GOLD 26801W	39	145.0	95.8	17.1	5.3	0.0	77.3	24.8
PIONEER BRAND 519	40	179.1	97.4	10.7	1.0	0.0	80.0	22.5

TABLE 11. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
PRINCETON SX910	41	159.4	95.8	33.8	1.6	0.0	78.7	23.5
PRINCETON SP936	42	155.6	93.2	30.0	3.5	0.0	76.0	20.3
STURDY GROW SG908W	43	132.3	91.7	39.6	4.7	0.0	79.7	21.6
STURDY GROW SG921W	44	112.8	89.1	39.2	3.6	0.0	78.0	25.6
STURDY GROW SG935W	45	150.9	92.2	21.7	2.9	0.0	78.0	23.7
STURDY GROW EXP 0641	46	164.3	97.9	3.8	1.6	0.0	76.0	21.2
STURDY GROW EXP 0668	47	139.1	96.4	0.5	14.1	0.0	73.0	20.7
STURDY GROW EXP 0695	48	149.8	102.1	0.0	8.7	0.0	72.7	20.7
STURDY GROW EXP 9649	49	158.3	95.3	8.3	1.6	0.0	76.7	20.4
TENN T1105	50	142.2	96.9	12.8	4.7	0.0	77.3	25.0
TENN T1108	51	114.8	92.7	42.3	1.6	0.0	79.3	22.9
WHISNAND 71W	52	141.1	97.4	18.8	8.0	0.0	76.0	20.4
WHISNAND 75W	53	125.6	93.2	21.6	9.3	0.0	76.0	18.5
WHISNAND 77W	54	139.4	95.3	24.1	9.4	0.0	76.0	19.8
WHISNAND 79W (GA)	55	105.1	89.1	37.2	2.9	0.0	75.3	16.2
WHISNAND 91W	56	125.2	94.3	49.9	2.8	0.0	79.3	22.5
WHISNAND EXP 2W	57	130.7	89.1	15.3	3.6	0.0	75.7	19.3
WHISNAND EXP 77-2W	58	139.4	91.1	11.4	4.6	0.0	76.0	21.4
WHISNAND EXP 77-3W	59	106.0	90.1	41.2	7.9	0.0	76.0	20.1
ZIMMERMAN Z14	60	147.0	80.2	8.7	2.2	0.0	77.3	24.7
ZIMMERMAN Z54	61	134.3	92.2	21.2	1.7	0.0	77.3	21.9
YELLOW CHECK B73 X M017	62	150.7	95.3	16.3	1.7	0.0	75.7	17.6
YELLOW CHECK M017 X N28	63	166.7	101.0	1.0	4.6	0.0	77.7	20.5
YELLOW CHECK PIONEER BRAND 3320	64	177.4	96.9	4.4	2.2	0.0	76.7	22.8
YELLOW CHECK US13	65	97.9	84.4	27.2	19.8	0.0	76.7	19.5
MEAN	.	139.5	92.1	24.6	4.1	.	77.1	21.9
LSD 0.05	.	23.8	10.8	31.7	5.6	.	2.3	2.9
CV%	.	10.5	7.2	79.0	84.6	.	1.8	8.2

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 12. YIELD AND AGRONOMIC DATA FROM THE 1981 NATIONAL WHITE MAIZE VARIETY TRIAL AT COLLEGE STATION, TX.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
ACCO UC1800W	1	92.5	68.3	4.8	0.0	0.0	77.7	0.0
ACCO U398W	2	140.6	108.3	10.2	1.4	0.0	78.7	0.0
ASGROW RX962W	3	101.7	85.0	16.3	4.8	0.0	78.7	0.0
FUNK G-4747W-1	4	120.2	76.7	3.9	0.0	0.0	79.3	0.0
FUNK G-4768W	5	107.3	103.3	9.6	2.9	0.0	79.7	0.0
FUNK G-4787W	6	135.7	86.7	2.0	0.0	0.0	79.3	0.0
FUNK EXP 29276	7	83.2	65.0	5.6	0.0	0.0	78.0	0.0
FUNK EXP 29313	8	120.2	93.3	7.4	3.0	0.0	79.0	0.0
GOLDEN HARVEST H-2644W	9	120.9	78.3	0.0	0.0	0.0	77.0	0.0
GOLDEN HARVEST H-2660W	10	130.1	83.3	0.0	0.0	0.0	78.3	0.0
IFSI 79-5	11	71.5	50.0	0.0	5.6	0.0	78.0	0.0
IFSI 81-2	12	106.1	90.0	5.6	0.0	0.0	77.3	0.0
IFSI 81-3	13	112.8	80.0	3.7	0.0	0.0	78.7	0.0
IFSI 81-4	14	106.7	88.3	3.5	9.1	0.0	77.7	0.0
IFSI 81-5	15	123.3	86.7	0.0	0.0	0.0	77.3	0.0
IFSI 80-6	16	115.3	93.3	0.0	0.0	0.0	77.7	0.0
IFSI 81-7	17	115.9	90.0	5.7	0.0	0.0	77.3	0.0
IFSI 81-8	18	100.5	76.7	1.8	0.0	0.0	77.7	0.0
IFSI 81-9	19	136.3	100.0	8.1	4.8	0.0	78.3	0.0
IFSI 79-1	20	96.2	83.3	3.2	0.0	0.0	77.0	0.0
IFSI 77-1	21	99.3	90.0	7.6	0.0	0.0	78.0	0.0
IFSI 74-3	22	100.5	88.3	2.4	0.0	0.0	79.0	0.0
IFSI 80-13	23	113.5	80.0	0.0	4.5	0.0	77.0	0.0
JACQUES W200	24	106.1	98.3	5.3	1.8	0.0	77.3	0.0
LYNKS SC-WLA	25	120.2	91.7	3.8	0.0	0.0	77.7	0.0
LYNKS SC-WM	26	95.6	80.0	3.7	0.0	0.0	77.0	0.0
MEACHAM'S MV58	27	112.8	86.7	4.8	5.9	0.0	78.0	0.0
MEACHAM'S MV68	28	91.3	75.0	0.0	0.0	0.0	76.3	0.0
MEACHAM'S MV78	29	105.4	85.0	7.4	0.0	0.0	78.0	0.0
MEACHAM'S MV88	30	126.4	88.3	3.6	0.0	0.0	77.7	0.0
MEACHAM'S MX50	31	88.8	76.7	3.9	1.7	0.0	78.7	0.0
MFA C4W	32	101.1	101.7	4.5	1.7	0.0	78.3	0.0
NORTHROP KING X233F6	33	92.5	88.3	6.0	0.0	0.0	79.7	0.0
O'S GOLD 25501W	34	138.7	98.3	1.8	0.0	0.0	77.0	0.0
O'S GOLD 25601W	35	102.4	78.3	5.6	1.9	0.0	77.0	0.0
O'S GOLD 26201W	36	115.9	91.7	1.8	1.8	0.0	76.7	0.0
O'S GOLD 26301W	37	109.8	86.7	7.7	0.0	0.0	77.3	0.0
O'S GOLD 26501W	38	130.1	100.0	11.7	0.0	0.0	79.3	0.0
O'S GOLD 26801W	39	111.6	75.0	0.0	0.0	0.0	77.7	0.0
PIONEER BRAND 519	40	127.0	90.0	11.2	0.0	0.0	78.7	0.0

TABLE 12. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
PRINCETON SX910	41	133.8	80.0	0.0	0.0	0.0	78.3	0.0
PRINCETON SP936	42	141.2	96.7	10.4	0.0	0.0	77.7	0.0
STURDY GROW SG908W	43	89.4	76.7	5.3	0.0	0.0	76.7	0.0
STURDY GROW SG921W	44	103.6	78.3	1.8	0.0	0.0	77.7	0.0
STURDY GROW SG935W	45	128.3	81.7	4.8	0.0	0.0	78.3	0.0
STURDY GROW EXP 0641	46	93.7	80.0	4.4	0.0	0.0	77.3	0.0
STURDY GROW EXP 0668	47	93.1	98.3	0.0	5.0	0.0	76.0	0.0
STURDY GROW EXP 0695	48	111.6	85.0	0.0	4.4	0.0	76.0	0.0
STURDY GROW EXP 9649	49	124.6	81.7	1.9	2.1	0.0	78.0	0.0
TENN T1105	50	130.7	83.3	4.3	0.0	0.0	79.3	0.0
TENN T1108	51	136.9	88.3	5.7	2.0	0.0	78.0	0.0
WHISNAND 71W	52	80.8	88.3	0.0	0.0	0.0	77.0	0.0
WHISNAND 75W	53	70.3	76.7	0.0	2.0	0.0	77.3	0.0
WHISNAND 77W	54	94.3	90.0	2.0	0.0	0.0	77.7	0.0
WHISNAND 79W (GA)	55	59.8	91.7	10.2	4.8	0.0	77.0	0.0
WHISNAND 91W	56	132.6	93.3	3.7	1.9	0.0	79.7	0.0
WHISNAND EXP 2W	57	85.1	86.7	2.8	0.0	0.0	77.0	0.0
WHISNAND EXP 77-2W	58	99.9	90.0	0.0	3.7	0.0	77.0	0.0
WHISNAND EXP 77-3W	59	91.9	95.0	3.6	5.0	0.0	76.7	0.0
ZIMMERMAN Z14	60	115.9	88.3	4.8	0.0	0.0	78.7	0.0
ZIMMERMAN Z54	61	114.1	96.7	3.2	0.0	0.0	78.7	0.0
YELLOW CHECK B73 X M017	62	131.3	95.0	0.0	0.0	0.0	77.0	0.0
YELLOW CHECK M017 X N28	63	84.5	78.3	0.0	2.1	0.0	78.0	0.0
YELLOW CHECK PIONEER BRAND 3320	64	103.0	95.0	4.1	0.0	0.0	77.0	0.0
YELLOW CHECK US13	65	101.7	76.7	10.8	2.4	0.0	77.3	0.0
MEAN	.	108.9	86.3	4.1	1.3	.	77.8	.
LSD 0.05	.	34.3	.	.	.	.	1.2	.
CV%	.	19.3	.	.	.	.	1.0	.

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 13. YIELD AND AGRONOMIC DATA FROM THE 1981 NATIONAL WHITE MAIZE VARIETY TRIAL AT HALFWAY, TX.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
ACCO UC1800W	1	128.2	92.4	0.0	51.2	0.0	74.3	0.0
ACCO U398W	2	186.0	84.8	0.0	39.6	0.0	79.3	0.0
ASGROW RX962W	3	171.1	89.4	0.0	57.6	0.0	80.0	0.0
FUNK G-4747W-1	4	193.8	97.0	0.0	45.0	0.0	79.7	0.0
FUNK G-4768W	5	156.5	86.4	0.0	49.4	0.0	80.0	0.0
FUNK G-4787W	6	195.5	101.5	0.0	42.0	0.0	81.3	0.0
FUNK EXP 29276	7	138.0	71.2	0.0	21.3	0.0	73.3	0.0
FUNK EXP 29313	8	198.8	89.4	0.0	51.1	0.0	78.7	0.0
GOLDEN HARVEST H-2644W	9	140.8	86.4	0.0	37.0	0.0	72.7	0.0
GOLDEN HARVEST H-2660W	10	213.1	93.9	0.0	51.6	0.0	77.0	0.0
IFSI 79-5	11	184.7	100.0	0.0	56.6	0.0	74.3	0.0
IFSI 81-2	12	130.4	87.9	0.0	30.8	0.0	75.0	0.0
IFSI 81-3	13	194.1	101.5	0.0	61.3	0.0	76.7	0.0
IFSI 81-4	14	182.7	87.9	0.0	50.9	0.0	74.7	0.0
IFSI 81-5	15	135.1	89.4	0.0	27.2	0.0	73.0	0.0
IFSI 80-6	16	198.5	92.4	0.0	68.8	0.0	77.7	0.0
IFSI 81-7	17	155.3	112.1	0.0	27.0	0.0	77.0	0.0
IFSI 81-8	18	167.2	104.5	0.0	49.2	0.0	73.7	0.0
IFSI 81-9	19	146.1	98.5	0.0	69.6	0.0	78.0	0.0
IFSI 79-1	20	182.0	83.3	0.0	59.3	0.0	73.7	0.0
IFSI 77-1	21	155.7	81.8	0.0	50.4	0.0	79.3	0.0
IFSI 74-3	22	173.3	90.9	0.0	53.3	0.0	79.7	0.0
IFSI 80-13	23	120.0	89.4	0.0	27.9	0.0	73.7	0.0
JACQUES W200	24	118.9	74.2	0.0	60.9	0.0	74.3	0.0
LYNKS SC-WLA	25	182.2	81.8	0.0	37.0	0.0	78.3	0.0
LYNKS SC-WM	26	165.9	97.0	0.0	46.6	0.0	72.7	0.0
MEACHAM'S MV58	27	202.1	104.5	0.0	50.6	0.0	77.7	0.0
MEACHAM'S MV68	28	155.6	101.5	0.0	50.8	0.0	72.7	0.0
MEACHAM'S MV78	29	160.1	86.4	0.0	43.2	0.0	81.3	0.0
MEACHAM'S MV88	30	217.9	89.4	0.0	29.5	0.0	77.7	0.0
MEACHAM'S MX50	31	139.8	100.0	0.0	63.8	0.0	76.7	0.0
MFA C4W	32	157.2	92.4	0.0	47.9	0.0	78.7	0.0
NORTHROP KING X233F6	33	201.2	97.0	0.0	53.2	0.0	79.7	0.0
O'S GOLD 25501W	34	205.5	106.1	0.0	61.8	0.0	76.3	0.0
O'S GOLD 25601W	35	176.2	100.0	0.0	50.0	0.0	73.3	0.0
O'S GOLD 26201W	36	140.9	95.5	0.0	48.8	0.0	71.3	0.0
O'S GOLD 26301W	37	141.4	93.9	0.0	32.2	0.0	79.0	0.0
O'S GOLD 26501W	38	167.4	97.0	0.0	61.0	0.0	79.0	0.0
O'S GOLD 26801W	39	214.4	80.3	0.0	39.6	0.0	78.3	0.0
PIONEER BRAND 519	40	164.3	95.5	0.0	56.3	0.0	80.3	0.0

TABLE 13. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
PRINCETON SX910	41	175.8	90.9	0.0	46.7	0.0	80.0	0.0
PRINCETON SP936	42	213.8	95.5	0.0	45.5	0.0	79.3	0.0
STURDY GROW SG908W	43	134.7	97.0	0.0	57.7	0.0	75.3	0.0
STURDY GROW SG921W	44	140.8	84.8	0.0	55.2	0.0	79.0	0.0
STURDY GROW SG935W	45	214.5	86.4	0.0	47.4	0.0	78.0	0.0
STURDY GROW EXP 0641	46	171.8	86.4	0.0	49.2	0.0	75.0	0.0
STURDY GROW EXP 0668	47	141.2	87.9	0.0	79.0	0.0	69.0	0.0
STURDY GROW EXP 0695	48	131.2	92.4	0.0	62.4	0.0	70.7	0.0
STURDY GROW EXP 9649	49	220.9	107.6	0.0	51.3	0.0	77.0	0.0
TENN T1105	50	149.8	77.3	0.0	29.4	0.0	82.7	0.0
TENN T1108	51	164.6	92.4	0.0	49.8	0.0	80.0	0.0
WHISNAND 71W	52	156.5	81.8	0.0	60.4	0.0	73.0	0.0
WHISNAND 75W	53	149.2	90.9	0.0	44.8	0.0	72.3	0.0
WHISNAND 77W	54	149.4	77.3	0.0	49.6	0.0	74.7	0.0
WHISNAND 79W (GA)	55	106.8	87.9	0.0	41.7	0.0	73.0	0.0
WHISNAND 91W	56	188.3	95.5	0.0	58.4	0.0	78.7	0.0
WHISNAND EXP 2W	57	147.2	101.5	0.0	77.8	0.0	73.3	0.0
WHISNAND EXP 77-2W	58	123.3	89.4	0.0	57.4	0.0	72.7	0.0
WHISNAND EXP 77-3W	59	105.1	80.3	0.0	52.5	0.0	72.3	0.0
ZIMMERMAN Z14	60	208.1	93.9	0.0	42.0	0.0	79.7	0.0
ZIMMERMAN Z54	61	182.4	97.0	0.0	32.4	0.0	79.0	0.0
YELLOW CHECK B73 X M017	62	147.2	77.3	0.0	24.0	0.0	72.3	0.0
YELLOW CHECK M017 X N28	63	168.6	92.4	0.0	31.0	0.0	72.3	0.0
YELLOW CHECK PIONEER BRAND 3320	64	158.6	89.4	0.0	49.8	0.0	73.7	0.0
YELLOW CHECK US13	65	112.4	81.8	0.0	60.6	0.0	75.3	0.0
MEAN	.	164.9	91.4	.	48.7	.	76.3	.
LSD 0.05	.	38.4	19.0	.	25.7	.	2.8	.
CV%	.	14.2	12.7	.	32.3	.	2.2	.

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 14. YIELD AND AGRONOMIC DATA FROM THE 1981 NATIONAL WHITE MAIZE VARIETY TRIAL AT MT. VERNON, IL.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN+	DAY FLWR	MOIST %
ACCO UC1800W	1	81.6	99.5	0.0	0.0	53.0	0.0	20.9
ACCO U398W	2	132.5	98.4	0.0	0.0	54.0	0.0	25.6
ASGROW RX962W	3	107.2	99.0	0.0	0.0	57.0	0.0	24.3
FUNK G-4747W-1	4	120.8	97.4	0.0	0.0	48.0	0.0	20.2
FUNK G-4768W	5	109.5	97.4	0.0	0.0	60.0	0.0	23.4
FUNK G-4787W	6	89.2	97.9	0.0	0.0	48.0	0.0	23.7
FUNK EXP 29276	7	94.6	65.1	0.0	0.0	57.0	0.0	20.1
FUNK EXP 29313	8	103.0	97.4	0.0	0.0	53.0	0.0	19.1
GOLDEN HARVEST H-2644W	9	82.2	94.8	0.0	0.0	42.0	0.0	20.0
GOLDEN HARVEST H-2660W	10	109.3	100.0	0.0	0.0	62.0	0.0	25.7
IFSI 79-5	11	102.2	95.8	0.0	0.0	55.0	0.0	22.0
IFSI 81-2	12	127.9	99.0	0.0	0.0	42.0	0.0	20.0
IFSI 81-3	13	132.8	95.8	0.0	0.0	57.0	0.0	24.6
IFSI 81-4	14	135.7	98.4	0.0	0.0	45.0	0.0	20.6
IFSI 81-5	15	145.8	99.5	0.0	0.0	51.0	0.0	22.2
IFSI 80-6	16	103.9	98.4	0.0	0.0	50.0	0.0	22.3
IFSI 81-7	17	125.5	99.5	0.0	0.0	52.0	0.0	22.8
IFSI 81-8	18	89.6	99.5	0.0	0.0	43.0	0.0	19.8
IFSI 81-9	19	136.5	94.3	0.0	0.0	58.0	0.0	22.4
IFSI 79-1	20	72.2	97.9	0.0	0.0	50.0	0.0	23.2
IFSI 77-1	21	118.2	99.0	0.0	0.0	54.0	0.0	25.1
IFSI 74-3	22	98.7	97.4	0.0	0.0	47.0	0.0	22.0
IFSI 80-13	23	135.6	100.0	0.0	0.0	48.0	0.0	19.2
JACQUES W200	24	112.6	100.0	0.0	0.0	50.0	0.0	19.8
LYNKS SC-WLA	25	116.6	95.8	0.0	0.0	48.0	0.0	21.9
LYNKS SC-WM	26	123.3	95.8	0.0	0.0	46.0	0.0	19.8
MEACHAM'S MV58	27	84.2	90.6	0.0	0.0	52.0	0.0	23.2
MEACHAM'S MV68	28	140.8	100.0	0.0	0.0	39.0	0.0	22.2
MEACHAM'S MV78	29	109.2	99.0	0.0	0.0	56.0	0.0	24.7
MEACHAM'S MV88	30	104.7	98.4	0.0	0.0	57.0	0.0	23.0
MEACHAM'S MX50	31	107.2	99.0	0.0	0.0	46.0	0.0	20.9
MFA C4W	32	125.8	99.5	0.0	0.0	48.0	0.0	21.2
NORTHRUP KING X233F6	33	104.1	98.4	0.0	0.0	53.0	0.0	23.1
O'S GOLD 25501W	34	68.2	97.4	0.0	0.0	58.0	0.0	21.4
O'S GOLD 25601W	35	102.5	96.9	0.0	0.0	52.0	0.0	22.1
O'S GOLD 26201W	36	147.2	96.4	0.0	0.0	43.0	0.0	19.5
O'S GOLD 26301W	37	102.1	91.7	0.0	0.0	52.0	0.0	22.1
O'S GOLD 26501W	38	120.7	97.4	0.0	0.0	58.0	0.0	23.9
O'S GOLD 26801W	39	121.7	95.8	0.0	0.0	52.0	0.0	24.0
PIONEER BRAND 519	40	130.3	99.5	0.0	0.0	56.0	0.0	19.7

TABLE 14. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN+	DAY FLWR	MOIST %
PRINCETON SX910	41	125.3	89.1	0.0	0.0	56.0	0.0	21.0
PRINCETON SP936	42	137.9	98.4	0.0	0.0	58.0	0.0	20.4
STURDY GROW SG908W	43	96.6	95.3	0.0	0.0	53.0	0.0	19.4
STURDY GROW SG921W	44	92.4	98.4	0.0	0.0	46.0	0.0	22.7
STURDY GROW SG935W	45	131.6	98.4	0.0	0.0	41.0	0.0	17.9
STURDY GROW EXP 0641	46	83.0	96.9	0.0	0.0	53.0	0.0	20.8
STURDY GROW EXP 0668	47	101.3	99.5	0.0	0.0	46.0	0.0	19.7
STURDY GROW EXP 0695	48	125.9	96.9	0.0	0.0	38.0	0.0	20.1
STURDY GROW EXP 9649	49	69.0	96.4	0.0	0.0	62.0	0.0	21.5
TENN T1105	50	107.6	97.4	0.0	0.0	42.0	0.0	25.7
TENN T1108	51	109.1	95.3	0.0	0.0	50.0	0.0	21.6
WHISNAND 71W	52	119.5	97.9	0.0	0.0	43.0	0.0	19.5
WHISNAND 75W	53	97.9	97.4	0.0	0.0	50.0	0.0	19.5
WHISNAND 77W	54	101.3	94.8	0.0	0.0	46.0	0.0	20.4
WHISNAND 79W (GA)	55	88.8	97.9	0.0	0.0	50.0	0.0	17.7
WHISNAND 91W	56	124.2	99.5	0.0	0.0	58.0	0.0	21.0
WHISNAND EXP 2W	57	107.7	99.5	0.0	0.0	47.0	0.0	18.7
WHISNAND EXP 77-2W	58	113.9	99.0	0.0	0.0	52.0	0.0	19.4
WHISNAND EXP 77-3W	59	66.7	99.5	0.0	0.0	48.0	0.0	21.0
ZIMMERMAN Z14	60	127.9	95.3	0.0	0.0	46.0	0.0	19.5
ZIMMERMAN Z54	61	111.3	98.4	0.0	0.0	53.0	0.0	23.4
YELLOW CHECK B73 X M017	62	121.6	99.5	0.0	0.0	48.0	0.0	22.8
YELLOW CHECK M017 X N28	63	145.4	94.8	0.0	0.0	49.0	0.0	21.5
YELLOW CHECK PIONEER BRAND 3320	64	128.1	96.4	0.0	0.0	45.0	0.0	21.5
YELLOW CHECK US13	65	80.1	99.5	0.0	0.0	60.0	0.0	18.3
MEAN	.	110.6	97.0	.	.	50.6	.	21.5
LSD 0.05	.	26.4	5.1	.	.	.	.	4.7
CV%	.	14.6	3.2	.	.	.	.	13.3

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.
+ EAR HEIGHT DATA OBTAINED FOR ONLY ONE REPLICATION.

TABLE 15. YIELD AND AGRONOMIC DATA FROM THE 1981 NATIONAL WHITE MAIZE VARIETY TRIAL AT BLACKSBURG, VA.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
ACCO UC180CW	1	137.8	89.5	0.0	16.7	0.0	76.3	18.8
ACCO U398W	2	171.8	93.0	0.0	4.7	0.0	76.3	25.1
ASGROW RX962W	3	160.7	93.0	0.0	6.3	0.0	77.3	24.1
FUNK G-4747W-1	4	170.9	98.2	0.0	8.1	0.0	78.7	22.3
FUNK G-4768W	5	126.0	85.1	0.0	25.7	0.0	77.3	24.2
FUNK G-4787W	6	141.3	95.6	0.0	13.7	0.0	82.7	26.5
FUNK EXP 29276	7	66.4	34.2	0.0	2.6	0.0	75.0	22.6
FUNK EXP 29313	8	164.9	93.0	0.0	3.8	0.0	77.0	25.1
GOLDEN HARVEST H-2644W	9	113.0	78.9	0.0	6.2	0.0	73.7	20.8
GOLDEN HARVEST H-2660W	10	150.1	96.5	0.0	20.0	0.0	79.0	24.1
IFSI 79-5	11	136.1	73.7	0.0	7.1	0.0	76.0	20.5
IFSI 81-2	12	144.0	95.6	0.0	4.5	0.0	75.3	20.0
IFSI 81-3	13	163.2	83.3	0.0	14.6	0.0	77.7	23.0
IFSI 81-4	14	145.1	90.4	0.0	4.7	0.0	75.7	25.9
IFSI 81-5	15	149.8	93.0	0.0	15.9	0.0	76.3	18.5
IFSI 80-6	16	190.2	94.7	0.0	13.9	0.0	77.0	22.8
IFSI 81-7	17	162.3	95.6	0.0	5.4	0.0	75.3	24.9
IFSI 81-8	18	157.1	92.1	0.0	5.8	0.0	77.0	19.7
IFSI 81-9	19	128.7	86.0	0.0	21.6	0.0	76.7	21.1
IFSI 79-1	20	173.2	100.9	0.0	11.3	0.0	76.0	21.8
IFSI 77-1	21	131.7	89.5	0.0	16.7	0.0	79.3	24.3
IFSI 74-3	22	142.3	91.2	0.0	5.7	0.0	77.0	24.7
IFSI 80-13	23	155.4	94.7	0.0	1.9	0.0	76.7	16.5
JACQUES W200	24	145.2	100.0	0.0	20.7	0.0	74.0	18.1
LYNKS SC-WLA	25	185.9	96.5	0.0	10.6	0.0	77.0	25.1
LYNKS SC-WM	26	140.0	100.0	0.0	21.9	0.0	75.3	18.8
MEACHAM'S MV58	27	163.6	93.9	0.0	6.7	0.0	75.7	19.9
MEACHAM'S MV68	28	158.3	94.7	0.0	39.1	0.0	74.3	20.9
MEACHAM'S MV78	29	150.1	94.7	0.0	10.3	0.0	78.0	26.4
MEACHAM'S MV88	30	201.2	97.4	0.0	3.6	0.0	77.3	23.0
MEACHAM'S MX50	31	137.4	93.0	0.0	11.4	0.0	76.3	22.5
MFA C4W	32	124.2	100.0	0.0	30.8	0.0	76.0	21.9
NORTHRUP KING X233F6	33	168.7	89.5	0.0	13.6	0.0	79.7	24.3
O'S GOLD 25501W	34	147.5	93.9	0.0	8.4	0.0	76.0	21.2
O'S GOLD 25601W	35	147.9	84.2	0.0	14.1	0.0	76.3	18.6
O'S GOLD 26201W	36	143.8	92.1	0.0	36.9	0.0	73.0	20.5
O'S GOLD 26301W	37	117.4	90.4	0.0	6.6	0.0	76.0	25.0
O'S GOLD 26501W	38	153.8	93.0	0.0	12.9	0.0	78.7	24.9
O'S GOLD 26801W	39	142.4	85.1	0.0	3.1	0.0	77.7	25.3
PIONEER BRAND 519	40	154.7	94.7	0.0	5.7	0.0	76.0	19.5

TABLE 15. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
PRINCETON SX910	41	142.5	93.0	0.0	18.6	0.0	79.0	23.3
PRINCETON SP936	42	169.5	94.7	0.0	12.2	0.0	77.3	23.7
STURDY GROW SG908W	43	171.0	93.9	0.0	13.8	0.0	75.0	19.3
STURDY GROW SG921W	44	125.7	90.4	0.0	6.1	0.0	76.7	25.4
STURDY GROW SG935W	45	181.1	98.2	0.0	12.5	0.0	76.7	24.0
STURDY GROW EXP 0641	46	149.0	94.7	0.0	5.8	0.0	75.3	20.4
STURDY GROW EXP 0668	47	125.1	93.9	0.0	39.4	0.0	73.3	18.4
STURDY GROW EXP 0695	48	136.7	91.2	0.0	32.6	0.0	74.7	19.7
STURDY GROW EXP 9649	49	150.6	98.2	0.0	10.7	0.0	76.0	20.9
TENN T1105	50	141.6	99.1	0.0	2.6	0.0	80.7	25.9
TENN T1108	51	124.0	97.4	0.0	30.5	0.0	76.0	22.1
WHISNAND 71W	52	143.1	88.6	0.0	13.6	0.0	74.0	18.2
WHISNAND 75W	53	133.5	93.9	0.0	25.4	0.0	76.0	18.5
WHISNAND 77W	54	145.6	93.9	0.0	24.2	0.0	75.3	19.5
WHISNAND 79W (GA)	55	112.6	87.7	0.0	18.6	0.0	73.7	17.8
WHISNAND 91W	56	140.0	86.8	0.0	13.0	0.0	77.3	24.4
WHISNAND EXP 2W	57	136.2	96.5	0.0	22.7	0.0	75.3	18.7
WHISNAND EXP 77-2W	58	141.7	97.4	0.0	26.6	0.0	76.3	19.6
WHISNAND EXP 77-3W	59	119.7	92.1	0.0	15.6	0.0	75.0	17.6
ZIMMERMAN Z14	60	136.4	80.7	0.0	3.1	0.0	75.0	24.3
ZIMMERMAN Z54	61	136.9	100.0	0.0	5.3	0.0	77.3	25.5
YELLOW CHECK B73 X M017	62	128.0	94.7	0.0	19.2	0.0	74.7	18.3
YELLOW CHECK M017 X N28	63	138.0	101.8	0.0	40.6	0.0	74.7	20.3
YELLOW CHECK PIONEER BRAND 3320	64	142.0	94.7	0.0	1.8	0.0	74.3	20.0
YELLOW CHECK US13	65	144.8	100.9	0.0	19.1	0.0	74.7	16.8
MEAN	.	145.8	92.1	.	14.3	.	76.3	21.8
LSD 0.05	.	31.3	10.9	.	15.5	.	2.3	2.0
CV%	.	13.1	7.3	.	66.6	.	1.8	5.8

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 16. COMBINED YIELD AND AGRONOMIC DATA FROM 13 SITES GROWING THE 1981 NATIONAL WHITE MAIZE VARIETY TRIAL.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %	BI	SD
ACCO UC1800W	1	118.7	92.9	7.9	13.4	45.4	76.4	19.6	1.03	14.0
ACCO U39SW	2	139.1	92.3	8.5	7.2	45.3	77.9	22.7	0.91	14.2
ASGROW RX962W	3	132.2	95.9	8.6	11.5	46.1	78.1	22.8	1.23	9.6
FUNK G-4747W-1	4	141.7	98.0	5.5	9.8	42.6	78.7	22.3	1.19	11.8
FUNK G-4768W	5	129.4	97.9	9.6	11.9	45.6	78.4	24.0	0.63	17.2
FUNK G-4787W	6	122.2	95.1	8.8	8.5	44.4	79.9	24.2	0.97	27.9
FUNK EXP 29276	7	84.5	54.9	1.4	5.3	42.8	76.8	21.7	0.56	19.8
FUNK EXP 29313	8	137.7	94.0	5.7	9.1	45.6	77.9	22.0	1.28	11.8
GOLDEN HARVEST H-2644W	9	107.7	82.8	2.2	7.3	35.1	75.9	20.2	0.72	14.2
GOLDEN HARVEST H-2660W	10	138.9	94.9	10.2	12.0	49.0	77.8	23.0	1.26	13.9
IFSI 79-5	11	127.0	85.6	6.0	12.8	41.3	76.7	20.4	1.21	16.7
IFSI 81-2	12	118.8	93.5	12.8	7.4	36.3	76.9	19.7	0.65	17.2
IFSI 81-3	13	143.4	95.3	2.2	16.1	44.9	77.2	22.5	1.33	8.0
IFSI 81-4	14	132.6	94.4	3.6	9.1	39.5	77.1	22.9	1.09	11.5
IFSI 81-5	15	140.9	97.2	3.8	9.1	44.3	77.0	19.4	0.64	16.9
IFSI 80-6	16	146.9	96.8	0.8	14.0	43.1	76.9	21.8	1.37	11.9
IFSI 81-7	17	140.2	96.8	2.1	7.9	41.7	77.5	22.8	0.90	14.5
IFSI 81-8	18	126.9	96.3	2.0	10.3	40.4	76.3	19.4	1.23	13.6
IFSI 81-9	19	135.9	96.8	2.9	13.6	39.5	77.6	21.0	0.69	17.2
IFSI 79-1	20	126.7	95.9	6.8	14.4	43.7	76.4	20.7	1.39	14.8
IFSI 77-1	21	130.6	93.1	6.4	10.6	46.5	78.8	22.9	0.85	9.1
IFSI 74-3	22	122.6	93.8	7.0	9.5	43.2	78.5	22.8	0.94	9.5
IFSI 80-13	23	124.8	94.7	1.8	6.5	39.1	76.7	18.4	0.71	16.9
JACQUES W200	24	127.0	96.1	8.0	12.7	41.9	76.4	18.9	0.78	18.3
LYNKS SC-WLA	25	142.9	91.9	11.6	9.8	45.5	77.7	22.3	1.19	13.9
LYNKS SC-IM	26	124.5	95.2	8.0	12.6	41.7	76.3	19.5	1.18	11.5
MEACHAM'S MV58	27	145.7	95.3	6.6	9.2	44.4	77.4	21.1	1.38	16.8
MEACHAM'S MV68	28	125.7	96.4	0.5	14.3	33.7	75.3	20.4	1.12	17.8
MEACHAM'S MV78	29	138.0	92.8	11.6	10.8	45.8	78.2	23.1	1.00	13.5
MEACHAM'S MV88	30	146.9	95.1	9.1	7.0	47.1	77.9	22.6	1.35	21.2
MEACHAM'S MX50	31	127.0	94.1	11.6	11.5	42.2	77.6	21.8	0.58	13.5
MFA C4W	32	126.7	95.6	13.6	13.6	42.0	78.0	21.6	0.72	12.3
NORTHROP KING X233F6	33	138.1	92.3	9.8	12.0	45.5	78.5	22.7	1.34	16.2
O'S GOLD 25501W	34	141.2	97.0	8.1	10.4	45.3	76.9	21.2	1.28	21.4
O'S GOLD 25601W	35	126.1	94.4	7.2	12.8	46.6	76.4	20.1	1.19	14.7
O'S GOLD 26201W	36	126.8	94.9	0.6	13.5	34.2	76.0	19.6	0.92	19.0
O'S GOLD 26301W	37	115.7	95.1	8.2	6.3	42.5	77.9	22.8	0.49	11.6
O'S GOLD 26501W	38	135.6	96.6	9.1	12.6	45.6	78.8	22.8	0.96	9.5
O'S GOLD 26801W	39	135.0	91.3	5.1	8.1	45.6	78.2	23.1	1.24	15.9
PIONEER BRAND 519	40	146.5	96.2	4.6	9.5	46.0	78.4	20.1	0.73	15.3

TABLE 16. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %	BI	SD
PRINCETON SX910	41	137.9	90.8	8.3	11.2	45.8	79.1	22.2	1.05	10.0
PRINCETON SP936	42	141.1	89.9	6.5	7.8	45.5	77.9	22.3	1.23	20.8
STURDY GROW SG908W	43	123.9	94.1	7.4	11.9	45.2	76.7	19.6	0.98	17.1
STURDY GROW SG921W	44	116.6	93.3	9.8	8.8	41.5	78.0	23.1	0.51	9.0
STURDY GROW SG935W	45	142.5	92.6	7.9	9.1	44.4	77.9	22.3	1.16	16.8
STURDY GROW EXP 0641	46	129.6	93.7	1.5	10.3	42.1	76.9	20.1	1.47	12.8
STURDY GROW EXP 0668	47	110.8	95.8	0.9	19.6	35.5	74.9	19.1	1.15	18.2
STURDY GROW EXP 0695	48	126.7	93.8	0.1	14.9	35.8	75.4	19.7	0.93	21.4
STURDY GROW EXP 9649	49	141.4	96.3	4.1	10.3	46.5	77.5	20.6	1.27	21.5
TENN T1105	50	123.5	96.5	4.5	6.0	41.4	78.3	24.0	0.59	15.3
TENN T1108	51	128.4	94.9	10.4	11.0	42.9	78.4	22.1	0.73	16.2
WHISNAND 71W	52	130.6	95.6	6.3	13.7	41.7	76.4	19.8	1.00	14.3
WHISNAND 75W	53	120.0	94.4	5.2	12.1	41.9	76.5	19.0	1.08	13.5
WHISNAND 77W	54	125.6	94.0	5.6	13.2	41.1	76.7	19.5	1.16	9.7
WHISNAND 79W (GA)	55	91.2	92.7	8.5	10.0	42.0	76.1	18.0	1.08	15.6
WHISNAND 91W	56	134.6	95.1	10.6	13.3	47.3	78.7	22.4	0.93	18.0
WHISNAND EXP 2W	57	126.3	96.1	5.4	15.2	42.7	76.6	19.1	0.99	12.3
WHISNAND EXP 77-2W	58	122.9	92.9	4.9	14.2	40.9	76.9	19.9	0.91	15.4
WHISNAND EXP 77-3W	59	104.0	93.6	10.3	11.0	43.5	77.1	19.1	1.03	18.9
ZIMMERMAN Z14	60	140.5	90.2	4.6	7.4	43.6	78.1	22.5	1.07	15.9
ZIMMERMAN Z54	61	128.1	98.9	5.2	6.4	42.7	77.8	22.7	0.79	17.2
YELLOW CHECK B73 X M017	62	137.5	93.8	6.6	9.1	39.0	76.3	18.5	0.83	20.3
YELLOW CHECK M017 X N28	63	134.9	95.2	1.5	12.4	39.0	76.7	20.3	1.10	17.9
YELLOW CHECK PIONEER BRAND 3320	64	140.2	95.3	2.1	7.7	38.2	76.8	20.3	0.89	14.6
YELLOW CHECK US13	65	99.1	94.2	8.2	22.3	44.8	76.8	18.5	0.86	17.7
MEAN	.	129.2	93.7	6.3	11.0	42.7	77.3	21.2	1.00	15.3
LSD 0.05	.	12.6	4.9	6.9	5.3	5.0	2.0	1.2	0.17	.
SITE MEANS										
COLUMBIA, MO	.	108.4	96.2	.	.	52.0	82.4	13.1	.	.
IOWA CITY, IA	.	150.4	95.7	14.0	7.2	54.2	.	28.9	.	.
LAFAYETTE, IN	.	121.1	97.3	.	23.9	.	.	28.2	.	.
UNION CITY, TN	.	140.4	102.5	5.0	3.3	.	.	16.6	.	.
KNOXVILLE, TN	.	152.5	100.5	0.1	2.9	53.6	69.8	20.4	.	.
MANHATTAN, KS	.	111.1	95.2	0.1	1.1	44.6	79.1	18.8	.	.
ROSSVILLE, KS	.	125.5	78.7	2.0	3.0	43.8	75.4	20.8	.	.
TROY, KS	.	100.3	.	.	.	.	81.8	20.9	.	.
LEXINGTON, KY	.	139.5	92.1	24.6	4.1	.	77.1	21.9	.	.
COLLEGE STATION, TX	.	108.9	86.3	4.1	1.3	.	77.8	.	.	.
HALFWAY, TX	.	164.9	91.4	.	48.7	.	76.3	.	.	.
MT. VERNON, IL	.	110.6	97.0	.	.	50.6	.	21.5	.	.
BLACKSBURG, VA	.	145.8	92.1	.	14.3	.	76.3	21.8	.	.

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 17. EUROPEAN CORN BORER, VIRUS, AND KERNEL BREAKAGE SUSCEPTIBILITY DATA FROM THE 1981 NATIONAL WHITE MAIZE VARIETY TRIAL.

ENTRY NAME	NO.	1ST ECB	2ND ECB	VIR INF%	VIR SEVR	AVG VIR	BRKN K %
ACCO UC1800W	1	4.0	6.0	95.6	3.7	3.5	27.5
ACCO U398W	2	7.0	6.7	79.8	3.4	2.9	33.1
ASGROW RX962W	3	6.7	6.7	80.9	3.7	3.2	35.1
FUNK G-4747W-1	4	7.3	6.7	84.2	3.6	3.2	39.5
FUNK G-4768W	5	6.3	5.3	100.0	4.4	4.4	32.9
FUNK G-4787W	6	5.0	5.3	73.2	3.2	2.6	31.2
FUNK EXP 29276	7	9.0	7.0	88.8	4.9	4.4	34.6
FUNK EXP 29313	8	5.7	6.7	83.7	3.8	3.3	35.2
GOLDEN HARVEST H-2644W	9	6.7	7.7	100.0	4.0	4.0	28.7
GOLDEN HARVEST H-2660W	10	5.3	6.3	76.7	3.1	2.6	37.4
IFSI 79-5	11	7.0	6.7	97.8	4.3	4.3	30.4
IFSI 81-2	12	8.0	6.7	100.0	5.8	5.8	28.1
IFSI 81-3	13	7.7	6.3	91.1	3.7	3.5	36.2
IFSI 81-4	14	5.0	7.0	96.7	5.1	5.0	29.3
IFSI 81-5	15	5.0	6.7	92.8	4.0	3.7	26.5
IFSI 80-6	16	7.0	6.7	79.7	3.7	3.2	33.9
IFSI 81-7	17	8.3	7.0	78.7	3.9	3.3	36.4
IFSI 81-8	18	6.7	9.0	89.4	4.2	3.8	32.9
IFSI 81-9	19	4.7	6.7	100.0	4.8	4.8	28.5
IFSI 79-1	20	5.7	7.0	77.2	3.9	3.4	34.1
IFSI 77-1	21	6.3	6.7	77.2	3.9	3.2	34.8
IFSI 74-3	22	6.3	6.7	96.1	4.5	4.3	33.7
IFSI 80-13	23	8.3	7.3	100.0	5.4	5.4	24.6
JACQUES W-200	24	8.3	7.0	98.3	4.4	4.3	33.1
LYNKS SC-WLA	25	7.7	6.7	73.3	3.4	2.8	37.6
LYNKS SC-WM	26	8.3	7.7	93.6	4.9	4.7	35.4
MEACHAM'S MV58	27	5.3	7.3	60.8	4.0	2.7	36.3
MEACHAM'S MV68	28	7.3	9.0	75.3	4.1	3.3	34.7
MEACHAM'S MV78	29	6.7	6.7	79.2	3.5	3.0	35.3
MEACHAM'S MV88	30	6.3	6.7	76.9	4.0	3.3	38.2
MEACHAM'S MX50	31	8.3	6.7	89.2	4.9	4.5	30.1
MFA C4W	32	6.0	6.7	85.4	4.5	3.9	29.7
NORTHROP KING X233F6	33	5.7	5.7	89.4	3.0	2.8	35.7
O'S GOLD 25501W	34	5.7	7.7	80.2	4.6	3.9	32.6
O'S GOLD 25601W	35	6.3	7.0	92.3	3.8	3.6	27.8
O'S GOLD 26201W	36	6.7	8.7	76.5	4.7	3.8	33.7
O'S GOLD 26301W	37	4.7	6.3	100.0	4.8	4.8	31.5
O'S GOLD 26501W	38	7.3	6.3	72.4	4.0	3.0	33.1
O'S GOLD 26801W	39	4.3	7.0	84.5	3.6	3.2	34.2
PIONEER BRAND 519	40	4.0	6.7	97.4	4.2	4.1	32.7

TABLE 17. CONTINUED.

ENTRY NAME	NO.	1ST ECB	2ND ECB	VIR INF%	VIR SEVR	AVG VIR	BRKN K %
PRINCETON SX910	41	7.0	6.7	92.8	3.4	3.2	35.4
PRINCETON SP936	42	4.7	7.0	85.0	3.6	3.2	36.9
STURDY GROW SG908W	43	6.7	7.3	94.7	4.1	4.0	27.3
STURDY GROW SG921W	44	6.3	6.7	96.3	4.6	4.5	32.0
STURDY GROW SG935W	45	7.3	7.0	85.2	3.8	3.4	36.2
STURDY GROW EXP 0641	46	4.7	7.0	81.0	4.2	3.6	32.6
STURDY GROW EXP 0668	47	5.7	8.3	97.1	5.2	5.1	35.0
STURDY GROW EXP 0695	48	7.0	8.3	88.1	4.6	4.1	33.5
STURDY GROW EXP 9649	49	5.7	7.7	89.9	4.7	4.4	36.5
TENNESSEE T1105	50	4.7	6.7	87.2	4.1	3.8	33.5
TENNESSEE T1108	51	7.7	5.7	93.8	3.8	3.6	32.8
WHISNAND 71W	52	9.0	7.7	93.7	4.6	4.4	34.9
WHISNAND 75W	53	6.7	8.0	93.1	4.5	4.2	33.9
WHISNAND 77W	54	8.3	7.7	90.4	4.5	4.2	35.2
WHISNAND 79W (GA)	55	7.0	7.0	75.9	4.4	3.6	36.5
WHISNAND 91W	56	8.3	5.7	80.5	3.2	2.8	35.5
WHISNAND EXP 2W	57	9.0	7.0	96.7	5.2	5.1	32.7
WHISNAND EXP 77-2W	58	7.0	7.3	87.9	5.5	5.0	33.4
WHISNAND EXP 77-3W	59	6.0	7.0	90.7	4.3	4.0	31.5
ZIMMERMAN Z14	60	5.7	6.7	92.4	3.9	3.7	31.6
ZIMMERMAN Z54	61	6.7	8.0	90.0	4.7	4.4	34.1
YELLOW CHECK B73 X M017	62	7.7	8.7	90.4	5.2	4.8	30.9
YELLOW CHECK M017 X N28	63	6.0	7.7	96.5	4.5	4.3	29.8
YELLOW CHECK PIONEER BRAND 3320	64	6.7	7.0	94.1	3.9	3.8	38.6
YELLOW CHECK US13	65	5.3	7.0	92.7	4.7	4.4	27.9
MEAN	.	6.5	7.0	88.0	4.2	3.9	33.2
LSD 0.05	.	2.5	1.2	18.5	0.9	1.0	4.1
CVZ	.	23.0	10.1	12.9	13.4	16.1	14.8

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 18. YIELD AND AGRONOMIC DATA COMBINED OVER 1977-1981 NATIONAL WHITE MAIZE VARIETY TRIALS FOR ENTRIES OCCURRING IN MORE THAN ONE YEAR.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	DROP E %	E HGT IN	DAY FLWR
ACCO UC1800W	2	100.9	91.1	5.6	12.0	1.5	46.2	76.1
ACCO U398W	4	124.1	90.9	8.4	13.7	1.1	51.8	72.7
CARGILL 99W	4	108.8	91.0	14.4	14.6	1.2	51.4	74.4
DEKALB XL390B	2	102.9	88.9	3.9	9.0	0.8	51.6	73.9
FUNK G-4747W	2	120.5	91.3	10.4	17.9	2.1	53.5	69.8
FUNK G-4747W-1	2	111.1	95.5	4.4	8.3	0.4	44.1	78.9
FUNK G-4787W	3	106.4	94.1	7.1	7.2	0.4	50.0	76.4
GOLDEN HARVEST H-2644W	5	97.5	87.4	5.6	11.8	1.2	41.0	70.3
GOLDEN HARVEST H-2660W	5	109.8	88.6	7.5	12.8	1.6	52.3	74.4
GOLDEN HARVEST H-2665W	3	102.8	88.0	5.2	11.4	0.9	53.5	72.5
IFSI 74-2	2	101.3	88.7	4.7	23.8	3.1	52.3	66.8
IFSI 74-3	5	110.4	91.5	7.7	10.6	0.9	50.1	74.3
IFSI 77-1	5	110.6	91.4	8.9	14.0	1.5	51.4	74.4
IFSI 79-1	3	108.7	92.5	5.9	13.5	1.8	49.6	74.1
IFSI 80-13	2	105.0	93.1	1.9	4.9	1.0	39.1	75.4
IFSI 80-6	2	119.1	93.7	1.4	10.0	0.7	44.6	76.5
JACQUES W200	4	101.0	89.9	7.9	15.1	1.5	45.5	72.6
JACQUES W300	3	102.1	90.1	7.3	15.2	0.6	53.2	73.3
LYNKS SC-WLA	3	118.9	91.4	6.8	9.9	0.9	49.3	75.5
LYNKS SC-WM	3	103.5	92.3	6.7	12.1	2.1	46.7	73.1
MASON 5540	2	99.0	85.2	5.3	18.4	1.2	52.7	68.3
MASON 5550	2	99.9	86.6	7.0	18.7	1.5	53.0	70.1
MC NAIR X-233	3	113.2	88.3	8.4	16.4	1.6	55.6	70.5
MEACHAM'S MV78	2	111.0	89.5	8.7	8.0	0.7	45.4	78.4
MEACHAM'S MV88	2	112.7	90.7	8.3	7.8	1.0	46.7	78.2
MEACHAM'S MX50	2	103.9	92.5	13.3	12.6	0.9	42.6	78.1
MFA C4W	4	105.2	91.4	11.8	17.7	1.2	46.8	74.2
NC+ 66W	2	101.6	86.8	8.2	18.7	2.7	47.4	66.8
P-A-G SX 70W	4	104.8	90.1	11.6	18.2	0.5	49.5	73.0
P-A-G 644W	3	102.2	90.2	5.6	14.4	0.7	55.3	74.2
PIONEER BRAND EXP X5386	3	111.9	93.0	6.1	9.5	1.0	54.3	73.0
PIONEER BRAND 511A	3	111.5	91.2	8.9	25.2	2.6	55.2	70.4
PRINCETON SP936	3	111.2	90.5	5.8	9.1	1.1	50.4	75.9
PRINCETON SX910	4	111.7	91.2	10.1	13.0	1.9	51.6	76.1
RING AROUND RA2602W	4	103.7	89.6	7.9	12.4	1.2	52.7	73.1
RING AROUND RA3605W	2	101.3	89.7	3.6	10.3	0.7	52.0	73.7
RING AROUND WSP2799	2	96.3	87.5	12.5	22.1	1.7	49.0	68.9
STURDY GROW SG907W	3	104.5	90.2	6.2	15.0	1.4	51.1	66.4
STURDY GROW SG908W	3	105.0	92.0	5.6	13.5	1.0	50.1	73.5
STURDY GROW SG921W	4	104.7	90.7	9.6	9.6	0.6	47.1	73.2

TABLE 18. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	DROP E %	E HGT IN	DAY FLWR
STURDY GROW SG935W	5	114.4	90.6	6.3	13.1	1.2	51.5	73.8
STURDY GROW SG957W	2	106.7	85.9	4.5	19.9	2.5	45.6	65.2
TAYLOR-EVANS T-E6999W	2	107.5	88.2	16.5	18.2	0.8	48.5	69.9
TENN 505	2	104.9	92.8	7.0	21.8	1.1	56.3	71.6
WHISNAND EXP 1W	2	109.8	91.0	6.2	15.9	2.8	51.5	67.6
WHISNAND EXP 2W	4	104.6	91.5	6.4	14.7	1.9	48.1	70.9
WHISNAND EXP 3W	2	108.2	90.6	3.9	21.3	2.7	48.1	66.0
WHISNAND EXP 4W	2	98.7	85.8	7.9	13.7	3.5	44.1	66.7
WHISNAND EXP 5W	3	104.1	87.6	5.7	21.3	1.4	55.1	69.0
WHISNAND EXP 77-1W	4	100.5	90.5	7.3	17.6	2.3	48.2	69.1
WHISNAND EXP 77-2W	2	91.3	90.9	8.5	11.1	0.5	42.5	76.0
WHISNAND EXP 91W	2	105.3	91.3	6.4	9.6	1.4	50.1	74.2
WHISNAND 75W	5	100.4	92.1	7.0	16.7	2.3	47.1	70.9
WHISNAND 77W	5	104.4	91.8	8.3	14.2	1.6	46.1	71.2
WHISNAND 79W	3	78.1	90.6	10.0	16.5	1.8	46.7	70.9
WHISNAND 79W (GA)	2	92.6	89.0	8.0	11.5	1.9	46.5	72.0
ZIMMERMAN Z11W	3	111.4	90.9	9.4	18.5	2.6	56.9	71.5
ZIMMERMAN Z19W	2	110.6	91.3	7.5	19.2	2.9	53.0	70.4
ZIMMERMAN Z52W	3	116.9	91.0	6.6	15.0	2.0	55.5	69.8
YELLOW CHECK B73 X MO17	5	113.3	88.3	5.7	9.5	1.7	44.4	71.2
YELLOW CHECK DEKALB XL81	3	106.8	88.4	4.0	11.1	2.1	43.3	66.0
YELLOW CHECK MO17 X N28	4	111.8	91.8	1.4	11.1	1.1	41.3	72.6
YELLOW CHECK O'S GOLD 5500A	3	114.7	90.3	5.4	10.6	1.3	45.9	66.5
YELLOW CHECK PIONEER BRAND 3369A	3	117.1	91.4	4.0	11.0	1.5	46.9	66.3
YELLOW CHECK US13	2	82.9	92.3	8.4	19.4	1.2	44.7	75.9
MEAN	.	106.1	90.4	7.2	14.2	1.5	49.1	72.1

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 19. COMPARISON OF GRAIN YIELD, STALK LODGING, AND DAYS TO FLOWERING BETWEEN THE AVERAGE OF ALL WHITE ENTRIES AND THE AVERAGE OF THE YELLOW CHECK HYBRIDS B73 X M017, M017 X N28, AND PIONEER BRAND 3320.

SITE	YIELD (BU/A)		STALK LODGING %		EAR HEIGHT (IN)		DAYS TO FLOWERING	
	WHITE	YELLOW	WHITE	YELLOW	WHITE	YELLOW	WHITE	YELLOW
COLUMBIA, MO	108.2	124.9	--	--	52.3	47.0	82.5	80.6
IOWA CITY, IA	149.4	184.3	7.0	4.1	54.5	47.0	--	--
LAFAYETTE, IN	120.7	140.1	23.3	27.2	--	--	--	--
UNION CITY, TN	141.5	137.3	3.1	4.4	--	--	--	--
KNOXVILLE, TN	152.4	160.0	2.7	0.7	53.8	47.8	69.9	67.6
MANHATTAN, KS	111.4	117.5	1.1	0.2	44.9	40.3	79.0	80.8
ROSSVILLE, KS	125.5	131.0	2.8	1.8	43.9	41.4	75.5	73.2
TROY, KS	100.7	98.9	--	--	--	--	81.5	86.0
LEXINGTON, KY	138.9	164.9	3.9	2.8	--	--	77.1	76.7
COLLEGE STATION, TX	109.1	106.3	1.3	0.7	--	--	77.9	77.3
HALFWAY, TX	166.1	158.1	49.2	34.9	--	--	76.5	72.8
MT. VERNON, IL	108.1	172.2	--	--	50.6	47.3	--	--
BLACKSBURG, VA	146.3	136.0	13.8	20.5	--	--	76.4	74.6
MEAN	129.3	137.5	10.9	9.7	50.4	38.7	77.4	76.6

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 20. KERNEL QUALITY DATA FROM 11 SITES GROWING THE 1980 NATIONAL WHITE MAIZE VARIETY TRIAL.

ENTRY NAME	NO.	HORNY %	100 KW G	KER DENS
ACCO UC1800W	1	86.4	32.6	1.22
ACCO UC2100W	2	91.4	34.2	1.25
CARGILL 99W	3	90.0	34.3	1.24
DEKALB XL390B	4	87.7	34.4	1.22
FUNK G-4747W-1	5	91.0	35.0	1.25
FUNK G-4787W	6	89.0	34.5	1.22
GOLDEN HARVEST H-2644W	7	90.5	30.8	1.24
GOLDEN HARVEST H-2660W	8	90.9	34.7	1.25
GOLDEN HARVEST H-2665W	9	90.5	35.9	1.25
IFSI 80-1	10	91.3	32.3	1.23
IFSI 80-2	11	90.5	34.5	1.23
IFSI 79-4	12	87.3	31.5	1.22
IFSI 80-4	13	90.9	31.3	1.24
IFSI 80-5	14	93.2	35.1	1.26
IFSI 80-6	15	90.9	32.7	1.25
IFSI 80-7	16	90.0	31.3	1.23
IFSI 80-8	17	90.5	30.7	1.24
IFSI 80-9	18	92.7	34.3	1.25
IFSI 79-1	19	90.0	34.9	1.22
IFSI 77-1	20	90.0	34.3	1.24
IFSI 74-3	21	90.0	37.2	1.25
IFSI 80-13	22	86.8	33.2	1.23
JACQUES W200	23	89.1	33.5	1.23
JACQUES W300	24	90.9	35.4	1.25
JACQUES EXP 9110W	25	87.7	31.7	1.22
LYNKS SC-WM	26	89.5	32.7	1.23
LYNKS SC-WLA	27	90.9	34.9	1.25
MEACHAM'S MV78	28	91.0	34.7	1.25
MEACHAM'S MV88	29	90.5	36.4	1.25
MEACHAM'S MX50	30	91.8	31.6	1.25
MFA C4W	31	90.9	31.6	1.25
P-A-G SX 70W	32	90.0	30.4	1.25
P-A-G 644W	33	90.0	32.6	1.25
PIONEER BRAND EXP X5386	34	90.9	31.0	1.25
PRINCETON SX910	35	91.8	35.2	1.25
PRINCETON SP936	36	91.5	36.0	1.25
RING AROUND RA2602W	37	91.5	35.2	1.25
RING AROUND RA3605W	38	91.8	37.1	1.26
STURDY GROW SG908W	39	88.2	32.2	1.23
STURDY GROW SG921W	40	91.5	34.4	1.27

TABLE 20. CONTINUED.

ENTRY NAME	NO.	HORNY %	100 KW G	KER DENS
STURDY GROW SG935W	41	90.0	35.3	1.26
STURDY GROW SG9641W	42	91.8	32.7	1.26
STURDY GROW SG9645W	43	90.5	36.8	1.25
STURDY GROW SG9649W	44	88.6	31.6	1.24
STURDY GROW SG9669W	45	91.8	32.2	1.24
STURDY GROW SG9677W	46	89.1	31.0	1.24
WHISNAND 75W	47	90.0	32.1	1.22
WHISNAND 77W	48	90.5	32.1	1.23
WHISNAND 79W	49	91.5	32.7	1.25
WHISNAND EXP 77-1W	50	90.0	31.7	1.22
WHISNAND EXP 77-2W	51	91.0	34.5	1.24
WHISNAND EXP 2W	52	90.0	32.8	1.22
WHISNAND EXP 91W	53	90.6	34.5	1.25
MEAN	.	90.3	33.5	1.24
LSD 0.05	.	2.1	1.7	0.02
CV%	.	2.7	6.1	2.00

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

