

NON-CIRCULATING



White Maize

1982 National
Crop Performance

Special Report 296

UNIVERSITY OF
MISSOURI

FEB 16 '83

Darrah and
Zuber

January, 1983

ACKNOWLEDGEMENTS

This Bulletin is a contribution of the Department of Agronomy, University of Missouri and Agricultural Research Service, Science and Education Administration, U.S. Department of Agriculture in cooperation with the Department of Agronomy, Purdue University; Department of Agronomy, Kansas State University; Department of Agronomy, University of Kentucky; Department of Entomology, University of Missouri; Department of Plant and Soil Science, University of Tennessee; Department of Soil and Crop Science, Texas A & M University; 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 for assistance in analyzing the results.

COLLABORATORS

Dr. L. F. Bauman, Purdue University

Dr. C. E. Wassom, Kansas State University

Dr. C. G. Poneleit, University of Kentucky

Dr. B. D. Barry, ARS, U. S. Department of Agriculture and Department of Entomology, University of Missouri

Dr. D. R. West and Mr. H. C. Kincer, University of Tennessee

Dr. A. J. Bockholt, Texas A & M University

Dr. M. Rode and Mr. R. Lundquist, Illinois Foundation Seeds, Inc.

Dr. T. R. Colbert, Funk Seeds International

Mr. L. R. Young and Mr. M. K. Lenz, The Quaker Oats Company research laboratory, Barrington

THE AUTHORS

L. L. Darrah is Research Geneticist, USDA, ARS and Associate Professor of Agronomy, University of Missouri; and M. S. Zuber is Emeritus Professor of Agronomy, University of Missouri, Columbia, MO 65211.

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	
Champaign, IL	Table 3
Lafayette, IN	Table 4
Manhattan, KS	Table 5
Silver Lake, KS	Table 6
Lexington, KY	Table 7
Huntsdale, MO	Table 8
Novelty, MO	Table 9
Knoxville, TN	Table 10
Union City, TN	Table 11
College Station, TX	Table 12
Halfway, TX	Table 13
Weslaco, TX	Table 14
Combined yield and agronomic data	Table 15
European corn borer and virus ratings	Table 17
Yield and agronomic data for common entries 1981-82	Table 17
Yield and agronomic data for common entries 1980-82	Table 18
Yield and agronomic data for common entries 1979-82	Table 19
Yield and agronomic data for common entries 1978-82	Table 20
Comparison of white and yellow hybrids in 1982	Table 21
Kernel quality data for 1981 National White Maize Variety Trial	Table 22

The 1982 National White Maize Variety Trial involved 65 hybrids plus 3 yellow checks submitted by 17 commercial seed producers or public institutions (Table 1). Fifteen locations were included in the agronomic evaluation. Acceptable data were received from sites in Illinois, Indiana, Kansas, Kentucky, Missouri, Tennessee, and Texas. Virus data were obtained from Waverly, Tennessee and European corn borer data were taken at Columbia, Missouri. Grain samples were evaluated for quality aspects at The Quaker Oats Company research laboratory at Barrington, Illinois.

ENTRIES AND SEED SOURCES

Contributors of seed for the 1982 evaluation are listed in Table 1. Those entries that have an EXP as part of the hybrid name, such as Jacques EXP 81113W, have not been released. The last three named hybrids in each table are yellow kernel hybrid checks.

For averages over years, entry names have been changed to present designations so an experimental hybrid would not be considered as different from the released hybrid. Pioneer Brand EXP X5386 was released as Pioneer Brand 519. Sturdy Grow EXP 9649 was released as Sturdy Grow SG910W and Sturdy Grow EXP 0614 was released as Sturdy Grow SG912W. The ACCO brand name was changed to Paymaster for all numbered hybrids.

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

Lodging is expressed as a percentage of the total plants 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 measured at harvest or when the grain was weighed.

European corn borer ratings

Leaf feeding by the first generation of the European corn borer (1 ECB RTG) was rated in nine classes in which a score of 1 represents no feeding, and 9 represents extensive feeding. Plants in each plot were infested with three egg masses and 20 larvae during the mid-whorl stage of plant development. Ratings for leaf feeding were made three weeks after egg hatch or larvae application.

Feeding by the second generation of the European corn borer (2 ECB IN) was determined by splitting stalks of 10 randomly infested plants per plot and visually estimating the length of tunneling in inches. The minimum tunnel length associated with one hole was 1 inch. Three egg masses and 20 larvae were applied at flowering and stalks were split 6 or more weeks later.

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.

Environmental yield response (b_1) and standard deviation of fit (SD)

These statistics are shown only in Table 15 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 horneous 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 selected 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 data were 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 situations.

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

The CV% relates error of measurement and the mean of the observed character. Values 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 12 locations with an appropriate LSD 0.05 for each character are shown in Table 15. 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 have a relative advantage in poor environments.

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

Overall, a desirable hybrid would have a high mean yield, $b_I = 1.0$, and low deviation from fit. If a grower knew that he was producing on the high side of the environments sampled, then a hybrid with b_I greater than 1.0 would be more responsive than one with $b_I = 1.0$ and would be likely to yield more if mean yield levels were equivalent.

NARRATIVE SUMMARY

Individual site yields ranged from 156.9 bu/a at Halfway, TX to 64.0 bu/a at Weslaco, TX. The overall average was 126.7 bu/a; quite similar to results from 1981 (129.2 bu/a). Plot stands averaged 96.6%, ranging from 81.5% at Huntsdale, MO to 105% at Weslaco, TX where plots were overplanted, but not thinned. Covariance adjustment of yield for stand was done at six sites where the efficiency of adjustment ($100 \times \text{Unadjusted error mean square} / \text{adjusted error mean square}$) exceeded 104%. Root lodging was very low at all sites. Stalk lodging was extremely high at Lafayette, IN (61.9%) and relatively high at Champaign, IL (13.9%) and Halfway, TX (13.1%). Average days to flowering was 74.9, ranging from 54.1 days at Weslaco, TX to 93.8 days at Halfway, TX. Moisture percentages averaged 19.7%. Low grain moisture percentages would have been observed where plots were harvested and dried before shelling and

weighing. Details of site data are in Tables 3-14.

Combined agronomic data from 12 sites (Table 15)

Seven white hybrids and one check yielded significantly more than the mean of all entries: DeKalb EXP 10080 (152.8 bu/a), IFSI 74-3 (142.2 bu/a), IFSI 74-3 (142.2 bu/a), IFSI 80-8 (141.6 bu/a), IFSI 82-4 (144.1 bu/a), P-A-G 386036W (143.4 bu/a), Sturdy Grow SG935W (140.0 bu/a), and the yellow check Pioneer Brand 3320 (146.8 bu/a). The sites by entries interaction was highly significant indicating different entry responses in different environments.

Root lodging was infrequent although data was observed at 11 sites. Whisnand 71W (1.3%) and US13 (1.3%) lodged significantly more than the mean of all entries (0.5%), but that amount of root lodging would not be of concern.

Stalk lodging percentages averaged 10.1 overall. IFSI 82-2 (5.6%), IFSI 82-3 (6.2%), and the yellow check Pioneer Brand 3320 (4.7%) had significantly less stalk lodging than the mean of all entries; whereas IFSI 79-1 (14.7%), IFSI 81-3 (15.6%), Whisnand 71W (15.2%), and US13 (20.9%) lodged significantly more than the mean.

Ten white hybrids and Pioneer Brand 3320 had ear heights lower than the average of all entries. Among the lowest were Whisnand 53W (37.6 in), Asgrow RX813W (38.9 in), IFSI 82-1 (39.2 in), and IFSI 81-2 (39.9 in). The entry with the highest ear height, DeKalb EXP 10080 (53.2 in), was also the highest yielding entry (152.8 bu/a).

The earliest hybrid averaged 72.1 days to flowering but was not significantly different from 18 other white hybrids or the three yellow checks. The latest hybrid was Funk G-4787W at 77.9 days to flowering. Six other hybrids averaged 77.0 days or longer to flowering: Paymaster U398W (77.2 days), Funk G-4779W (77.0 days), IFSI 74-3 (77.5 days), Jacques W300 (77.2 days), P-A-G 644W (77.7 days), and Pioneer Brand 519 (77.4 days).

Differences in grain moisture measured when combine harvesting at one location are reduced when averaged with moistures measured after uniform drying of hand harvested plots. Despite this, 14 white hybrids and all the yellow checks had significantly lower moisture percentages than the average of all entries. Seven hybrids were two percentage points lower. Nineteen white hybrids had significantly more moisture than the mean of all entries. The wide range observed suggests that seedsmen are offering a range of maturities in white hybrids. Three of the 6 higher yielding white hybrids were associated with grain moistures significantly higher than the average of all entries.

The environmental response coefficients (b_I) and standard deviations of fit are shown in the last two columns of Table 15. (A difference of ± 0.14 from 1.0 is necessary for significance. The LSD 0.05 should be used when comparing coefficients of two hybrids.) The b_I for 22 entries was significantly greater than 1.0, indicating greater than average response to better environmental conditions, but poor performance in adverse environments. Hybrids that had environmental responses more than 3 LSD's above 1.0 were Asgrow RX962W (1.47) IFSI 74-3 (1.47), Lynks SC-WLA (1.54), Northrup King X233A (1.49), Sturdy Grow SG935W (1.45), and Whisnand 91W (1.44). Of these, only Sturdy Grow SG935W was among the group of 6 hybrids yielding significantly more than the mean of all entries. The environmental responses of 23 white hybrids were significantly lower than 1.0 indicating relatively less responsiveness to changes in environment. Four of these were more than 3 LSD's below 1.0: Golden Harvest H-2644W (0.46), IFSI 82-1 (0.58), Meacham's MV58 (0.58), and Pioneer Brand 519 (0.42). Of these 4, Meacham's MV58 (136.4 bu/a) and Pioneer Brand 519 (139.0 bu/a) yielded well over the whole range of environments. Usually, this type of nonresponsiveness is associated with low rather than high mean yields.

The standard deviations of fit varied considerably for similar environmental response coefficients. For instance, Asgrow RX962W ($b_I = 1.47$) had an SD of 8.7 while Northrup King X233A ($b_I = 1.49$) had an SD of 15.1. The latter's response to environment would be less predictable than the former's though they both should respond far more than average ($b_I = 1.0$).

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

European corn borer and virus susceptibility data (Table 16)

The corn borer rating and tunnel measurement were done at Columbia, MO after hand infestation. Differences among entries for first generation rating (1ECB RTG) were not significant. In fact, the added susceptible check (WF9 x W182E, rating 1.3) rated lower than the resistant check (Pioneer Brand 3184, rating 2.3). Great amounts of feeding did not occur.

Tunneling due to the second and later generations of the corn borer (2ECB IN) averaged 2.5 in per stalk, again less than would be expected. No entry had significantly more tunneling than the average of all entries and only the resistant check (Pioneer Brand 3184) had significantly less tunneling

than the average of all entries. Within the range of \pm one LSD, differences among entries did occur but should be judged with caution because of the overall low feeding observed.

Virus ratings were made at Waverly, TN under conditions expected to result in high levels of incidence. Seventy-eight percent of the plants were noted as showing virus symptoms, with an average virus rating of 3.8 on a 1 to 9 scale in which 9 represented a severely affected plant. Four hybrids were significantly better than the mean of all entries for percent infection: IFSI 81-3 (57.2%), Meacham's MV88 (48.8%), O's Gold SX2680W (48.8%), and Sturdy Grow SG935W (56.8%). Only Golden Harvest H-2644W (98.5%) was significantly more susceptible than the average of all entries. These same hybrids rated lower than most for average virus rating.

Two-, three-, four-, and five-year mean yields and agronomic performance (Tables 17-20)

Data was summarized for common entries in the last two, three, four, and five years of the National White Maize Variety Trial. Individual year means were averaged without weighting for the varying numbers of sites over the years. However, recently the number of acceptable sites has ranged from 11 sites in 1978 and 1980 to 15 sites in 1979. This procedure does not permit an LSD to be directly calculated. Since the yearly combined yield LSD has been running about 10% of the mean, approximate values of 9 bu/a for the two-year means, 6-7 bu/a for the three-year means, 5-6 bu/a for the four-year means, and 5 bu/a for the five-year means could be used to compare yields of individual entries in the respective Tables.

Among the common entries from 1978-82, Pioneer Brand 519 (124.2 bu/a) and Sturdy Grow SG935W (120.8 bu/a) might be judged better than the average entry. Relatively poorer performers were Golden Harvest H-2644W (100.1 bu/a) and Whisnand 75W (103.7 bu/a).

Comparison of white and yellow kernel entries (Table 21)

Grain yield, stalk lodging, ear height, and days to flowering for the 65 white entries and two yellow checks, B73 x Mo17 and Pioneer Brand 3320, are compared in Table 21. At all but one site, the average yield of the yellow checks was better than the white hybrids, having a 16 bu/a advantage overall. Note that the yellow check US13 was omitted since it is not currently grown but can be used as a benchmark to performance in past years. The white entries generally lodged more, were similar in height (47.6 vs 45.5 in), and

were 1.8 days later to flowering than the two yellow check hybrids.

Milling quality evaluation of entries in the 1981 Trial

Milling quality of entries in the 1981 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 1.2 g/cc. Strictly adhering to these criteria, acceptable hybrids were: Paymaster U398W; Asgrow RX962W; Funk EXP 29313; Golden Harvest H-2660W; IFSI 81-7, 79-1, 77-1, and 74-3; Lynks SC-WLA; Meacham's MV78 and MV88; Northrup King X233F6; O's Gold 26501W and 26801W; Princeton SX936; Sturdy Grow SG935W; and Whisnand 91W. Least desirable were Paymaster UC1800W, IFSI 80-13, and O's Gold 25601W.

TABLE 1. SOURCES OF COMMERCIAL WHITE KERNEL MAIZE HYBRIDS ENTERED IN THE 1982 NATIONAL WHITE MAIZE VARIETY TRIAL.

BRAND	FIRM+	ADDRESS
ASGROW	ASGROW SEED COMPANY	KALAMAZOO, MI 49001
DEKALB	DEKALB-PFIZER GENETICS INC	SYCAMORE ROAD, DEKALB, IL 60115
FUNK	FUNK SEEDS INT'L.	1300 WEST WASHINGTON ST., BLOOMINGTON, IL 61701
GOLDEN HARVEST	COLUMBIANA SEED CO.	ELDRED, IL 62027
IFSI	ILLINOIS FOUNDATION SEED, INC.	P.O. BOX 722, CHAMPAIGN, IL 61820
JACQUES	JACQUES SEED CO.	PRESCOTT, WI 54021
LYNKS	LYNKS SEEDS	P.O. BOX 637, MARSHALLTOWN, IA 50158
MEACHAM	MEACHAM'S HYBRIDS	RR3, P.O. BOX 239, MORGANFIELD, KY 42437
NC+	NC+ HYBRIDS	3820 NORTH 56th STREET, LINCOLN, NE 68504
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
P-A-G	P-A-G SEEDS	P.O. BOX 470, AURORA, IL 60507
PAYMASTER	ACCO SEED	P.O. BOX 9, BELMOND, IA 50421
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
WHISNAND	WHISNAND HYBRIDS	RFD 1, ARCOLA, IL 61910

+MENTION OF A TRADEMARK OR PROPRIETARY PRODUCT DOES NOT CONSTITUTE A GUARANTEE OR WARRANTY OF THE PRODUCT BY THE U.S. DEPT. OF AGRICULTURE OR THE UNIVERSITY OF MISSOURI AND DOES NOT IMPLY ITS APPROVAL TO THE EXCLUSION OF OTHER PRODUCTS THAT MAY ALSO BE SUITABLE.

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

SITE	MEAN YIELD (BU/A)	PREVIOUS CROP	FERTILIZER (LBS/A)			DATE PLANTED	HERBICIDE	INSECTICIDE	PLANTED DENSITY (/A)
			N	P	K				
CHAMPAIGN, IL	130.3	SOYBEANS	150	57	133	--	ALACHLOR, METOLACHLOR	CARBOFURAN	21,120
LAFAYETTE, IN	127.7	--	--	--	--	--	--	--	--
MANHATTAN, KS	106.6	--	--	--	--	--	--	--	--
SILVER LAKE, KS	106.7	--	--	--	--	--	--	--	--
LEXINGTON, KY	124.0	MAIZE	150	0	60	29APR82	ATRAZINE, ALACHLOR	CARBOFURAN	20,000
HUNTSDALE, MO	121.0	MAIZE	150	0	0	15APR82	SIMAZINE, ALACHLOR	CHLORPYRIFOS	21,780
NOVELTY, MO	144.7	SOYBEANS	--	--	--	27APR82	ATRAZINE, CYANAZINE	--	21,780
KNOXVILLE, TN	156.5	SOYBEANS	150	52	100	4MAY82	ATRAZINE, ALACHLOR	--	21,780
UNION CITY, TN	148.6	MAIZE	160	51	102	14APR82	ATRAZINE, METOLACHLOR	CARBOFURAN	24,000
COLLEGE STN, TX ⁺	133.2	SORGHUM	152	72	36	13MAR82	ATRAZINE	--	22,000
HALFWAY, TX ⁺	156.9	MAIZE	147	44	0	15APR82	ATRAZINE, METOLACHLOR	CARBARYL, MONOCROTOPHOS	24,000
WESLACO, TX ⁺	64.4	COTTON	180	0	0	16MAR82	PENOXALIN	--	24,000

⁺IRRIGATED.

TABLE 3. YIELD AND AGRONOMIC DATA FROM THE 1982 NATIONAL WHITE MAIZE VARIETY TRIAL AT CHAMPAIGN, IL.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
PAYMASTER U398W	1	146.9	100.0	0.5	9.9	0.0	0.0	22.2
ASGROW RX813W	2	142.7	99.0	1.1	16.8	0.0	0.0	20.7
ASGROW RX962W	3	150.6	99.0	1.1	7.3	0.0	0.0	21.9
DEKALB XL390B	4	139.8	100.0	2.1	8.9	0.0	0.0	20.3
DEKALB EXP 10078	5	145.2	100.0	0.0	8.3	0.0	0.0	21.2
DEKALB EXP 10080	6	166.6	94.8	1.6	6.6	0.0	0.0	21.5
FUNK G-4747W-1	7	131.7	97.4	0.5	5.4	0.0	0.0	22.0
FUNK G-4768W	8	116.7	99.5	5.2	5.8	0.0	0.0	23.9
FUNK G-4779W	9	134.4	99.5	3.7	12.0	0.0	0.0	21.8
FUNK G-4787W	10	112.1	98.4	2.1	8.6	0.0	0.0	24.1
GOLDEN HARVEST H-2644W	11	120.3	94.8	1.1	22.8	0.0	0.0	19.7
GOLDEN HARVEST H-2660W	12	116.6	89.6	2.5	17.3	0.0	0.0	21.2
IFSI 74-3	13	156.4	96.9	0.5	8.1	0.0	0.0	21.9
IFSI 77-1	14	148.5	93.7	0.0	6.1	0.0	0.0	21.8
IFSI 79-1	15	114.5	97.9	0.0	28.6	0.0	0.0	18.9
IFSI 79-3	16	149.4	97.9	0.0	16.2	0.0	0.0	19.5
IFSI 80-4	17	143.5	98.4	0.0	9.0	0.0	0.0	24.0
IFSI 80-6	18	150.2	99.5	0.5	15.2	0.0	0.0	22.9
IFSI 80-8	19	147.5	98.4	1.1	26.4	0.0	0.0	23.5
IFSI 80-13	20	115.0	96.9	0.6	16.2	0.0	0.0	18.1
IFSI 81-2	21	120.2	99.5	0.5	11.0	0.0	0.0	19.2
IFSI 81-3	22	120.2	99.0	0.0	31.1	0.0	0.0	22.6
IFSI 82-1	23	113.9	98.4	0.5	6.4	0.0	0.0	21.8
IFSI 82-2	24	143.9	94.3	0.0	3.7	0.0	0.0	24.6
IFSI 82-3	25	108.5	97.9	5.8	3.7	0.0	0.0	21.1
IFSI 82-4	26	148.0	96.9	2.1	11.2	0.0	0.0	22.9
IFSI 82-5	27	142.8	99.0	0.0	9.4	0.0	0.0	19.4
JACQUES EXP 81113W	28	111.1	99.5	1.6	14.7	0.0	0.0	18.4
JACQUES EXP 81115W	29	107.4	97.9	7.3	8.5	0.0	0.0	19.7
JACQUES W200	30	105.3	99.5	1.0	13.6	0.0	0.0	18.4
JACQUES W300	31	138.5	94.3	0.0	11.6	0.0	0.0	22.5
LYNKS SC-WLA	32	135.3	97.9	3.3	7.9	0.0	0.0	22.0
LYNKS SC-WM	33	104.1	99.5	6.3	23.6	0.0	0.0	17.9
MEACHAM'S MV58	34	159.7	97.4	0.5	7.0	0.0	0.0	22.0
MEACHAM'S MV68	35	125.7	98.4	0.5	17.0	0.0	0.0	17.9
MEACHAM'S MV78	36	121.3	95.8	1.6	10.9	0.0	0.0	22.6
MEACHAM'S MV88	37	133.7	94.8	1.6	9.5	0.0	0.0	22.1
MEACHAM'S MX50	38	126.6	96.9	3.7	12.9	0.0	0.0	22.3
NC+ 8707W	39	136.5	99.5	0.0	15.7	0.0	0.0	21.8
NORTHRUP KING X233A	40	138.3	97.9	1.6	13.9	0.0	0.0	21.8

TABLE 3. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
O'S GOLD SX2560W	41	107.9	98.4	4.8	30.2	0.0	0.0	20.1
O'S GOLD SX2680W	42	134.4	99.5	1.0	8.9	0.0	0.0	22.2
P-A-G 386036H	43	137.7	99.0	1.1	7.4	0.0	0.0	22.1
P-A-G SX 70W	44	122.7	97.9	6.9	22.4	0.0	0.0	22.1
P-A-G 644W	45	118.0	99.5	4.7	16.7	0.0	0.0	21.3
PIONEER BRAND 519	46	142.4	97.9	2.2	9.5	0.0	0.0	20.7
PRINCETON SP936	47	132.1	100.0	1.0	10.4	0.0	0.0	22.2
PRINCETON SX910	48	128.4	98.4	1.1	10.6	0.0	0.0	22.2
STURDY GROW SG908W	49	125.7	96.9	2.1	15.6	0.0	0.0	19.3
STURDY GROW SG910W	50	149.6	99.0	0.0	14.2	0.0	0.0	21.0
STURDY GROW SG912W	51	121.4	95.3	0.0	20.9	0.0	0.0	17.6
STURDY GROW SG935W	52	147.6	100.0	1.0	12.5	0.0	0.0	21.9
STURDY GROW EXP 0695	53	137.0	98.4	2.7	17.4	0.0	0.0	18.7
STURDY GROW EXP 1719	54	132.6	96.9	0.5	13.4	0.0	0.0	21.1
STURDY GROW EXP 1A7517	55	110.2	95.8	2.2	30.0	0.0	0.0	18.1
STURDY GROW EXP 17563	56	147.2	100.0	2.6	5.7	0.0	0.0	21.6
WHISHAND EXP 1W	57	117.0	99.0	4.2	16.3	0.0	0.0	19.0
WHISHAND EXP 7W	58	98.7	100.0	3.6	14.6	0.0	0.0	20.0
WHISHAND 53W	59	129.4	98.4	2.1	6.9	0.0	0.0	21.1
WHISHAND 55W	60	140.9	100.0	2.1	20.3	0.0	0.0	22.2
WHISHAND 71W	61	109.6	96.9	4.3	25.7	0.0	0.0	19.9
WHISHAND 75W	62	107.3	96.4	1.1	17.7	0.0	0.0	19.4
WHISHAND 77W	63	107.8	98.4	2.7	26.9	0.0	0.0	19.1
WHISHAND EXP 77-2W	64	112.9	99.5	1.6	13.6	0.0	0.0	19.8
WHISHAND 91W	65	128.1	99.5	3.2	13.1	0.0	0.0	21.9
YELLOW CHECK PIONEER BRAND 3320	66	168.0	98.4	3.2	6.9	0.0	0.0	19.5
YELLOW CHECK B73 X M017	67	170.5	99.5	2.6	3.1	0.0	0.0	19.1
YELLOW CHECK US13	68	85.9	99.0	2.1	33.1	0.0	0.0	18.4
MEAN	.	130.3	98.0	1.9	13.9	.	.	20.9
LSD 0.05	.	22.9	4.5	3.9	9.7	.	.	1.2
CV%	.	10.8	2.8	124.8	42.7	.	.	3.5

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 4. YIELD AND AGRONOMIC DATA FROM THE 1982 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 %
PAYMASTER U398W	1	147.5	98.6	0.0	61.6	59.7	0.0	23.1
ASGROW RX813W	2	129.7	100.0	0.0	63.8	46.5	0.0	20.3
ASGROW RX962W	3	139.9	100.0	0.0	62.3	63.3	0.0	23.1
DEKALB XL390B	4	117.3	100.0	0.0	61.6	63.8	0.0	21.0
DEKALB EXP 10078	5	143.1	100.0	0.0	34.1	67.1	0.0	21.2
DEKALB EXP 10080	6	159.3	100.0	0.0	59.4	64.2	0.0	20.8
FUNK G-4747W-1	7	103.0	100.0	0.0	70.3	60.3	0.0	22.3
FUNK G-4768W	8	84.0	100.0	0.0	61.6	62.3	0.0	23.9
FUNK G-4779W	9	135.3	100.0	0.0	47.1	59.3	0.0	21.8
FUNK G-4787W	10	131.6	97.8	0.0	42.5	64.9	0.0	22.4
GOLDEN HARVEST H-2644W	11	83.4	94.2	0.0	72.2	49.4	0.0	19.3
GOLDEN HARVEST H-2660W	12	138.6	100.0	0.0	68.8	66.2	0.0	22.5
IFSI 74-3	13	150.0	94.2	0.0	64.4	62.3	0.0	22.6
IFSI 77-1	14	125.5	92.8	0.0	65.7	58.6	0.0	21.8
IFSI 79-1	15	149.7	100.0	0.0	70.3	59.7	0.0	19.3
IFSI 79-3	16	157.8	99.3	0.0	80.2	53.4	0.0	19.4
IFSI 80-4	17	132.2	100.0	0.0	64.5	54.7	0.0	24.6
IFSI 80-6	18	127.6	81.9	0.0	55.8	59.7	0.0	22.0
IFSI 80-8	19	155.7	100.0	0.0	65.2	56.3	0.0	23.7
IFSI 80-13	20	81.2	100.0	0.0	65.2	53.0	0.0	19.2
IFSI 81-2	21	101.4	100.0	0.0	54.3	55.2	0.0	20.2
IFSI 81-3	22	136.1	100.0	0.0	76.1	58.4	0.0	22.8
IFSI 82-1	23	96.1	100.0	0.0	68.1	48.1	0.0	22.3
IFSI 82-2	24	156.7	100.0	0.0	29.7	54.1	0.0	24.7
IFSI 82-3	25	103.6	100.0	0.0	53.6	53.4	0.0	20.2
IFSI 82-4	26	144.0	92.0	0.0	58.3	56.7	0.0	23.9
IFSI 82-5	27	139.5	100.0	0.0	61.6	59.9	0.0	18.5
JACQUES EXP 81113W	28	84.0	97.1	0.0	75.4	50.8	0.0	19.2
JACQUES EXP 81115W	29	109.7	100.0	0.0	56.5	52.8	0.0	20.4
JACQUES W200	30	101.2	100.0	0.0	68.8	59.4	0.0	17.9
JACQUES W300	31	121.0	99.3	0.0	72.3	62.0	0.0	22.8
LYNKS SC-WLA	32	139.0	100.0	0.0	69.6	65.5	0.0	21.8
LYNKS SC-WM	33	102.7	100.0	0.0	55.8	58.0	0.0	18.1
MEACHAM'S MV58	34	122.4	100.0	0.0	58.7	52.8	0.0	21.4
MEACHAM'S MV68	35	148.0	96.4	0.0	60.6	65.3	0.0	19.3
MEACHAM'S MV78	36	141.4	100.0	0.0	63.8	60.6	0.0	22.6
MEACHAM'S MV88	37	143.9	90.6	0.0	45.4	56.7	0.0	22.4
MEACHAM'S MX50	38	78.5	100.0	0.0	86.2	56.7	0.0	22.9
NC+ 8707W	39	131.9	100.0	0.0	66.7	65.5	0.0	21.5
NORTHROP KING X233A	40	123.9	100.0	0.0	74.6	63.2	0.0	21.2

TABLE 4. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
O'S GOLD SX2560W	41	119.2	98.6	0.0	61.7	64.2	0.0	19.0
O'S GOLD SX2680W	42	145.2	100.0	0.0	58.7	59.4	0.0	21.3
P-A-G 386036W	43	149.0	98.6	0.0	41.8	58.0	0.0	22.4
P-A-G SX 70W	44	88.2	100.0	0.0	75.4	58.6	0.0	22.9
P-A-G 644W	45	129.1	100.0	0.0	64.5	65.5	0.0	21.5
PIONEER BRAND 519	46	137.7	100.0	0.0	51.4	62.3	0.0	20.4
PRINCETON SP936	47	152.2	100.0	0.0	49.3	63.2	0.0	24.0
PRINCETON SX910	48	147.4	100.0	0.0	65.2	59.0	0.0	22.9
STURDY GROW SG908W	49	137.4	97.8	0.0	62.1	62.5	0.0	20.9
STURDY GROW SG910W	50	145.8	94.9	0.0	61.6	58.4	0.0	21.4
STURDY GROW SG912W	51	124.3	100.0	0.0	68.1	62.3	0.0	18.6
STURDY GROW SG935W	52	158.6	100.0	0.0	55.1	64.2	0.0	23.8
STURDY GROW EXP 0695	53	159.2	100.0	0.0	55.1	54.3	0.0	19.9
STURDY GROW EXP 1719	54	123.3	100.0	0.0	66.7	58.0	0.0	20.5
STURDY GROW EXP 1A7517	55	119.9	100.0	0.0	65.9	55.6	0.0	18.7
STURDY GROW EXP 17563	56	144.7	100.0	0.0	52.9	57.3	0.0	22.6
WHISNAND EXP 1W	57	102.0	100.0	0.0	74.6	63.6	0.0	19.5
WHISNAND EXP 7W	58	110.6	100.0	0.0	59.4	58.0	0.0	19.2
WHISNAND 53W	59	105.0	100.0	0.0	58.0	45.2	0.0	19.6
WHISNAND 55W	60	139.4	100.0	0.0	65.9	52.1	0.0	21.2
WHISNAND 71W	61	113.8	100.0	0.0	78.3	56.7	0.0	18.2
WHISNAND 75W	62	99.7	100.0	0.0	65.2	55.8	0.0	19.4
WHISNAND 77W	63	113.0	100.0	0.0	55.1	61.0	0.0	19.2
WHISNAND EXP 77-2W	64	120.2	100.0	0.0	62.3	60.3	0.0	20.0
WHISNAND 91W	65	146.8	100.0	0.0	61.6	62.9	0.0	22.6
YELLOW CHECK PIONEER BRAND 3320	66	178.2	95.7	0.0	34.9	55.4	0.0	19.0
YELLOW CHECK B73 X MO17	67	151.8	100.0	0.0	66.7	58.6	0.0	18.3
YELLOW CHECK US13	68	104.6	100.0	0.0	80.4	63.8	0.0	20.1
MEAN	.	127.7	98.8	.	61.9	58.8	.	21.1
LSD 0.05	.	36.5	.	.	17.1	6.6	.	1.5
CV%	.	17.5	.	.	16.9	6.9	.	4.3

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 5. YIELD AND AGRONOMIC DATA FROM THE 1982 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 %
PAYMASTER U398W	1	119.3	91.4	2.3	3.8	0.0	77.0	17.0
ASGROW RX813W	2	101.1	95.7	1.2	7.1	0.0	73.3	15.1
ASGROW RX962W	3	108.8	103.2	1.1	2.5	0.0	75.0	16.7
DEKALB XL390B	4	94.7	97.8	2.7	2.8	0.0	73.7	15.4
DEKALB EXP 10078	5	95.6	100.5	1.0	0.0	0.0	73.3	15.9
DEKALB EXP 10080	6	115.9	98.4	1.1	4.2	0.0	74.0	16.1
FUNK G-4747W-1	7	109.1	95.2	0.0	2.6	0.0	74.0	16.4
FUNK G-4768W	8	103.2	100.0	1.1	5.4	0.0	75.7	17.2
FUNK G-4779W	9	119.9	102.7	0.0	6.7	0.0	75.7	16.9
FUNK G-4787W	10	120.6	93.0	1.2	3.9	0.0	74.7	17.5
GOLDEN HARVEST H-2644W	11	99.9	90.3	0.6	4.2	0.0	74.0	15.6
GOLDEN HARVEST H-2660W	12	103.2	92.5	5.3	5.8	0.0	74.7	17.0
IFSI 74-3	13	106.0	100.5	1.5	4.6	0.0	74.7	16.2
IFSI 77-1	14	123.7	87.6	1.3	6.9	0.0	75.0	17.2
IFSI 79-1	15	95.8	84.9	1.3	11.4	0.0	74.7	15.6
IFSI 79-3	16	106.3	95.7	0.5	2.9	0.0	73.7	15.5
IFSI 80-4	17	101.2	90.3	0.6	11.7	0.0	74.7	17.5
IFSI 80-6	18	113.3	97.8	0.5	6.8	0.0	74.0	16.6
IFSI 80-8	19	124.0	97.3	0.5	1.8	0.0	75.3	17.6
IFSI 80-13	20	85.5	95.2	0.6	1.7	0.0	73.0	14.3
IFSI 81-2	21	98.0	96.8	0.0	0.6	0.0	73.0	15.3
IFSI 81-3	22	117.2	95.7	1.8	5.1	0.0	75.0	16.9
IFSI 82-1	23	108.8	90.3	0.0	3.0	0.0	73.0	15.8
IFSI 82-2	24	108.6	95.2	0.6	7.0	0.0	76.7	17.8
IFSI 82-3	25	91.9	99.5	1.6	1.1	0.0	74.0	16.2
IFSI 82-4	26	126.0	96.2	0.0	2.8	0.0	74.0	17.8
IFSI 82-5	27	106.0	98.9	3.4	3.7	0.0	72.0	15.4
JACQUES EXP 81113W	28	91.1	103.2	0.0	1.5	0.0	73.0	15.1
JACQUES EXP 81115W	29	98.2	105.4	0.0	1.6	0.0	75.3	15.6
JACQUES W200	30	65.3	81.2	1.3	9.6	0.0	73.0	14.9
JACQUES W300	31	105.9	93.5	1.9	9.5	0.0	76.0	16.9
LYNKS SC-WLA	32	100.6	91.9	3.7	2.3	0.0	74.3	17.6
LYNKS SC-XM	33	72.3	93.0	1.7	5.2	0.0	73.0	14.6
MEACHAM'S MV58	34	112.6	99.5	0.6	5.1	0.0	74.0	15.8
MEACHAM'S MV68	35	97.3	95.2	0.0	3.4	0.0	72.7	14.9
MEACHAM'S MV78	36	102.3	76.9	2.8	7.3	0.0	75.7	16.7
MEACHAM'S MV88	37	96.4	78.5	1.5	7.6	0.0	75.0	16.4
MEACHAM'S MX50	38	98.6	81.7	1.1	7.9	0.0	75.7	16.4
NC+ 8707W	39	127.7	101.1	0.0	5.8	0.0	75.3	17.8
NORTHROP KING X233A	40	131.8	100.0	1.1	4.8	0.0	75.3	17.5

TABLE 5. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
O'S GOLD SX2560W	41	102.6	96.8	0.6	9.2	0.0	73.0	14.9
O'S GOLD SX2680W	42	111.7	90.9	0.0	5.2	0.0	75.3	16.5
P-A-G 386036H	43	127.9	96.2	0.0	4.5	0.0	74.7	16.3
P-A-G SX 70W	44	119.6	107.5	1.8	2.6	0.0	76.7	16.9
P-A-G 644W	45	94.9	100.0	2.3	11.0	0.0	76.3	16.5
PIONEER BRAND 519	46	130.7	97.8	0.0	4.3	0.0	74.3	15.9
PRINCETON SP936	47	88.2	96.2	0.0	3.3	0.0	75.0	16.5
PRINCETON SX910	48	108.5	91.9	1.8	7.1	0.0	75.3	16.2
STURDY GROW SG908W	49	101.1	96.8	0.5	3.2	0.0	74.3	15.0
STURDY GROW SG910W	50	114.8	89.2	0.6	2.9	0.0	74.3	15.6
STURDY GROW SG912W	51	107.9	95.7	0.0	10.1	0.0	74.0	15.4
STURDY GROW SG935W	52	117.8	100.5	0.6	6.5	0.0	74.3	16.1
STURDY GROW EXP 0695	53	107.8	89.8	0.0	4.2	0.0	73.0	15.5
STURDY GROW EXP 1719	54	113.8	94.1	0.7	7.4	0.0	73.0	14.8
STURDY GROW EXP 1A7517	55	91.6	93.5	2.3	2.9	0.0	72.7	15.2
STURDY GROW EXP 17563	56	125.4	94.6	1.2	1.1	0.0	74.0	17.1
WHISHAND EXP 1W	57	103.3	96.2	0.5	10.7	0.0	74.7	14.9
WHISHAND EXP 7W	58	109.4	88.7	1.3	5.9	0.0	72.7	15.3
WHISHAND 53W	59	108.3	93.5	0.0	1.8	0.0	74.0	15.3
WHISHAND 55W	60	125.3	99.5	3.8	9.3	0.0	72.7	16.1
WHISHAND 71W	61	101.3	89.8	0.7	8.3	0.0	72.7	15.2
WHISHAND 75W	62	99.1	91.9	1.7	5.2	0.0	71.3	15.3
WHISHAND 77W	63	103.5	93.0	2.2	3.5	0.0	73.0	15.4
WHISHAND EXP 77-2W	64	102.8	92.5	1.2	6.6	0.0	73.0	15.2
WHISHAND 91W	65	97.2	102.7	0.6	4.2	0.0	75.0	16.5
YELLOW CHECK PIONEER BRAND 3320	66	128.8	94.6	2.9	1.7	0.0	74.0	15.2
YELLOW CHECK B73 X M017	67	122.0	98.9	0.0	6.1	0.0	73.3	15.1
YELLOW CHECK US13	68	79.4	80.6	5.7	24.0	0.0	72.3	15.3
MEAN	.	106.6	94.7	1.2	5.4	.	74.2	16.1
LSD 0.05	.	26.3	.	.	7.6	.	2.5	1.2
CV%	.	15.1	.	.	86.8	.	2.0	4.4

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 6. YIELD AND AGRONOMIC DATA FROM THE 1982 NATIONAL WHITE MAIZE VARIETY TRIAL AT SILVER LAKE, KS.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
PAYMASTER U398W	1	88.6	75.5	0.0	3.6	0.0	90.3	19.3
ASGROW RX813W	2	82.1	99.5	0.0	1.9	0.0	83.0	16.6
ASGROW RX962W	3	97.2	109.7	0.0	3.4	0.0	89.7	18.9
DEKALB XL390B	4	116.1	106.9	0.4	2.6	0.0	88.3	18.1
DEKALB EXP 1007B	5	107.2	106.5	0.0	2.2	0.0	87.7	18.8
DEKALB EXP 10080	6	135.5	113.0	0.4	2.4	0.0	88.3	19.5
FUNK G-4747H-1	7	88.8	106.5	0.0	3.4	0.0	87.0	18.6
FUNK G-4768W	8	108.9	101.9	0.0	2.2	0.0	90.3	20.9
FUNK G-4779W	9	117.7	89.8	0.0	4.0	0.0	91.0	18.7
FUNK G-4787W	10	94.2	75.0	0.0	1.1	0.0	90.3	19.2
GOLDEN HARVEST H-2644W	11	95.6	98.6	0.0	1.4	0.0	83.0	16.5
GOLDEN HARVEST H-2660W	12	121.5	90.3	0.0	2.5	0.0	86.7	20.0
IFSI 74-3	13	117.2	94.0	0.0	2.5	0.0	91.7	19.7
IFSI 77-1	14	97.0	89.4	0.0	3.5	0.0	89.0	20.0
IFSI 79-1	15	79.2	76.9	0.0	3.2	0.0	82.3	17.1
IFSI 79-3	16	123.1	100.5	0.0	2.7	0.0	83.0	17.0
IFSI 80-4	17	122.3	103.2	0.0	0.9	0.0	86.3	21.0
IFSI 80-6	18	122.6	95.8	0.0	4.4	0.0	87.0	19.6
IFSI 80-8	19	118.8	100.0	0.0	1.9	0.0	86.3	21.4
IFSI 80-13	20	104.3	99.5	0.0	0.5	0.0	82.7	15.4
IFSI 81-2	21	101.3	90.3	0.0	1.0	0.0	83.0	17.9
IFSI 81-3	22	105.8	102.8	0.0	6.7	0.0	86.3	20.1
IFSI 82-1	23	118.2	105.1	0.0	0.9	0.0	82.7	18.6
IFSI 82-2	24	105.7	99.1	0.0	0.5	0.0	87.7	21.5
IFSI 82-3	25	83.4	97.2	0.0	1.9	0.0	88.3	18.0
IFSI 82-4	26	122.7	86.6	0.0	0.0	0.0	85.0	20.7
IFSI 82-5	27	104.4	84.3	0.0	1.0	0.0	84.3	17.7
JACQUES EXP 81113W	28	107.5	100.0	0.0	2.3	0.0	82.7	15.6
JACQUES EXP 81115W	29	94.7	105.1	0.0	1.7	0.0	82.7	18.5
JACQUES W200	30	95.9	95.8	0.0	2.4	0.0	82.3	15.4
JACQUES W300	31	123.4	100.9	0.0	4.6	0.0	89.0	20.3
LYNKS SC-WLA	32	99.9	101.4	0.0	3.1	0.0	87.3	20.0
LYNKS SC-WM	33	76.4	102.8	0.0	5.4	0.0	82.3	15.8
MEACHAM'S MV58	34	133.5	108.3	0.0	0.4	0.0	84.0	18.8
MEACHAM'S MV68	35	102.1	103.2	0.0	2.0	0.0	85.7	16.8
MEACHAM'S MV78	36	109.6	80.6	0.0	3.4	0.0	89.3	19.3
MEACHAM'S MV88	37	99.8	67.6	0.0	2.1	0.0	89.0	19.8
MEACHAM'S MX50	38	100.2	106.0	0.0	4.4	0.0	87.7	18.0
NC+ 8707W	39	100.1	104.2	0.0	5.7	0.0	90.3	20.5
NORTHROP KING X233A	40	101.1	108.8	0.0	2.1	0.0	88.3	20.1

TABLE 6. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
O'S GOLD SX2560W	41	101.3	93.5	0.0	2.8	0.0	84.0	16.3
O'S GOLD SX2680W	42	113.4	86.6	0.0	2.2	0.0	88.3	19.5
P-A-G 386036W	43	98.6	98.1	0.0	0.9	0.0	87.0	19.0
P-A-G SX 70W	44	101.4	102.8	0.5	5.4	0.0	88.3	19.3
P-A-G 644W	45	87.7	97.2	0.0	4.0	0.0	91.0	18.2
PIONEER BRAND 519	46	117.4	99.1	0.0	3.8	0.0	88.0	18.2
PRINCETON SP936	47	108.7	96.3	0.0	3.4	0.0	85.7	19.0
PRINCETON SX910	48	116.3	88.9	0.0	4.7	0.0	87.0	19.7
STURDY GROW SG908W	49	102.3	92.1	0.0	2.3	0.0	84.7	16.9
STURDY GROW SG910W	50	104.9	84.7	0.0	3.1	0.0	83.0	18.0
STURDY GROW SG912W	51	119.0	99.1	0.0	4.9	0.0	86.3	16.9
STURDY GROW SG935W	52	84.1	72.2	0.0	5.0	0.0	89.0	20.0
STURDY GROW EXP 0695	53	146.7	107.9	0.0	0.9	0.0	82.3	16.8
STURDY GROW EXP 1719	54	115.0	100.9	0.0	6.9	0.0	83.0	17.1
STURDY GROW EXP 1A7517	55	95.0	100.0	0.0	0.5	0.0	83.3	16.0
STURDY GROW EXP 17563	56	104.8	90.3	0.0	0.0	0.0	84.3	19.1
WHISNAND EXP 1W	57	110.7	102.8	0.0	2.7	0.0	82.7	17.2
WHISNAND EXP 7W	58	106.8	101.9	0.0	1.9	0.0	83.3	16.5
WHISNAND 53W	59	108.2	96.3	0.0	0.5	0.0	80.7	17.1
WHISNAND 55W	60	111.2	104.2	0.0	1.4	0.0	82.0	18.9
WHISNAND 71W	61	117.4	93.1	0.0	2.4	0.0	82.7	16.8
WHISNAND 75W	62	105.2	96.8	0.0	6.7	0.0	81.0	17.5
WHISNAND 77W	63	121.5	94.9	0.0	3.9	0.0	82.0	16.4
WHISNAND EXP 77-2W	64	86.1	100.9	0.0	4.5	0.0	84.0	17.2
WHISNAND 91W	65	96.0	98.1	0.0	4.7	0.0	89.0	19.9
YELLOW CHECK PIONEER BRAND 3320	66	142.1	92.6	0.0	1.4	0.0	84.3	16.5
YELLOW CHECK B73 X MO17	67	118.9	96.3	0.4	0.9	0.0	82.0	15.7
YELLOW CHECK US13	68	92.9	106.0	0.5	3.9	0.0	83.0	15.5
MEAN	.	106.7	96.7	0.0	2.8	.	85.5	18.3
LSD 0.05	.	32.7	13.3	.	3.8	.	3.1	1.4
CV%	.	18.7	8.4	.	84.8	.	2.2	4.7

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 7. YIELD AND AGRONOMIC DATA FROM THE 1982 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 %
PAYMASTER U398W	1	112.6	93.7	2.7	1.1	58.5	0.0	20.8
ASGROW RX813W	2	120.7	99.5	0.0	2.6	50.7	0.0	21.7
ASGROW RX962W	3	128.4	96.9	0.5	2.7	55.2	0.0	22.8
DEKALB XL390B	4	119.2	95.8	0.0	1.6	54.6	0.0	20.9
DEKALB EXP 10078	5	118.3	94.3	0.0	6.7	52.0	0.0	21.8
DEKALB EXP 10080	6	147.0	93.2	0.6	1.1	55.9	0.0	21.3
FUNK G-4747W-1	7	133.6	95.8	0.0	1.6	55.9	0.0	21.0
FUNK G-4768W	8	111.0	96.9	3.2	3.8	55.9	0.0	24.1
FUNK G-4779W	9	122.5	97.9	0.5	2.1	55.9	0.0	22.2
FUNK G-4787W	10	99.1	95.8	0.6	1.7	50.5	0.0	21.7
GOLDEN HARVEST H-2644W	11	127.4	99.5	0.0	2.6	52.6	0.0	17.8
GOLDEN HARVEST H-2660W	12	134.9	91.1	0.0	3.3	57.8	0.0	20.0
IFSI 74-3	13	124.9	97.4	0.5	1.0	57.8	0.0	20.7
IFSI 77-1	14	119.1	101.0	0.0	3.1	55.9	0.0	22.8
IFSI 79-1	15	133.9	89.6	0.6	4.6	55.9	0.0	19.1
IFSI 79-3	16	117.5	98.4	0.5	4.8	53.3	0.0	20.5
IFSI 80-4	17	119.8	93.7	0.0	3.9	52.6	0.0	23.4
IFSI 80-6	18	131.9	97.9	0.0	4.8	54.6	0.0	22.0
IFSI 80-8	19	119.9	99.0	0.0	8.7	48.7	0.0	23.2
IFSI 80-13	20	118.0	97.9	0.0	2.7	46.1	0.0	19.2
IFSI 81-2	21	107.9	96.9	0.0	5.0	46.1	0.0	19.9
IFSI 81-3	22	122.2	100.0	2.1	8.9	48.7	0.0	22.0
IFSI 82-1	23	120.2	95.3	0.0	4.8	47.4	0.0	22.9
IFSI 82-2	24	108.9	96.9	0.0	1.6	49.4	0.0	20.7
IFSI 82-3	25	117.4	99.5	0.0	2.6	51.3	0.0	19.4
IFSI 82-4	26	142.2	100.0	0.0	7.9	53.9	0.0	24.2
IFSI 82-5	27	103.9	100.0	5.1	4.2	54.6	0.0	22.8
JACQUES EXP 81113W	28	115.9	98.4	0.0	5.9	50.7	0.0	16.1
JACQUES EXP 81115W	29	111.6	99.0	0.0	2.1	49.4	0.0	20.7
JACQUES W200	30	109.5	96.9	3.2	3.2	53.9	0.0	18.1
JACQUES W300	31	119.6	96.9	0.0	1.6	54.6	0.0	21.0
LYNKS SC-WLA	32	121.2	96.9	5.2	2.7	55.9	0.0	22.0
LYNKS SC-WM	33	98.6	100.0	0.0	5.6	52.0	0.0	19.3
MEACHAM'S MV58	34	125.3	99.0	0.0	6.3	50.7	0.0	22.5
MEACHAM'S MV68	35	152.7	97.9	0.0	3.3	54.6	0.0	17.6
MEACHAM'S MV78	36	142.5	79.2	0.0	0.6	56.5	0.0	22.1
MEACHAM'S MV88	37	120.4	93.7	0.6	1.7	55.2	0.0	22.5
MEACHAM'S MX50	38	109.5	94.3	0.0	9.3	52.6	0.0	21.7
NC+ 8707W	39	113.9	95.3	2.2	0.6	55.9	0.0	20.9
NORTHRUP KING X233A	40	123.8	99.0	0.0	1.1	53.3	0.0	20.5

TABLE 7. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
O'S GOLD SX2560W	41	130.8	95.3	0.0	1.7	55.2	0.0	18.8
O'S GOLD SX2680W	42	129.9	97.9	0.0	5.3	55.9	0.0	21.3
P-A-G 386036W	43	129.9	100.5	0.5	1.0	58.5	0.0	20.2
P-A-G SX 70W	44	118.2	96.4	0.0	2.2	53.9	0.0	22.3
P-A-G 644W	45	110.0	102.1	0.0	4.6	57.2	0.0	22.4
PIONEER BRAND 519	46	142.8	96.9	0.0	2.7	59.1	0.0	21.7
PRINCETON SP936	47	127.0	100.5	0.0	5.2	54.6	0.0	22.8
PRINCETON SX910	48	114.7	94.8	0.0	3.8	53.9	0.0	20.9
STURDY GROW SG908W	49	131.8	98.4	0.0	2.1	57.2	0.0	18.4
STURDY GROW SG910W	50	114.5	95.3	0.0	4.3	52.0	0.0	19.7
STURDY GROW SG912W	51	127.2	95.8	0.0	3.8	58.5	0.0	18.5
STURDY GROW SG935W	52	118.2	96.9	2.1	3.3	57.8	0.0	22.0
STURDY GROW EXP 0695	53	144.1	97.9	0.0	1.6	52.6	0.0	17.9
STURDY GROW EXP 1719	54	85.9	99.5	0.0	6.3	52.0	0.0	20.4
STURDY GROW EXP 1A7517	55	134.8	97.4	0.0	2.2	52.6	0.0	15.1
STURDY GROW EXP 17563	56	125.1	97.4	0.0	2.1	55.9	0.0	21.7
WHISNAND EXP 1W	57	121.4	101.0	1.0	2.1	49.4	0.0	18.6
WHISNAND EXP 7W	58	131.7	96.4	0.5	5.4	53.3	0.0	18.3
WHISNAND 53W	59	123.0	97.9	0.0	1.1	48.7	0.0	18.6
WHISNAND 55W	60	146.8	99.5	0.0	1.5	53.3	0.0	19.0
WHISNAND 71W	61	146.4	90.6	2.4	5.3	52.0	0.0	19.9
WHISNAND 75W	62	135.4	94.3	0.0	5.1	46.1	0.0	18.0
WHISNAND 77W	63	139.3	96.4	0.0	3.2	53.9	0.0	18.1
WHISNAND EXP 77-2W	64	128.9	94.8	0.0	2.2	53.3	0.0	18.4
WHISNAND 91W	65	127.5	90.6	2.5	4.5	58.5	0.0	21.9
YELLOW CHECK PIONEER BRAND 3320	66	152.9	97.9	2.6	0.5	52.6	0.0	20.1
YELLOW CHECK B73 X M017	67	138.6	99.0	0.0	2.1	50.7	0.0	18.1
YELLOW CHECK US13	68	108.0	94.8	0.5	13.4	54.6	0.0	18.6
MEAN	.	124.0	96.7	0.6	3.6	53.7	.	20.5
LSD 0.05	.	26.7	6.7	.	5.2	5.7	.	3.2
CV%	.	13.1	4.3	.	89.0	6.5	.	9.6

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 8. YIELD AND AGRONOMIC DATA FROM THE 1982 NATIONAL WHITE MAIZE VARIETY TRIAL AT HUNTSDALE, MO.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
PAYMASTER U398W	1	130.6	77.8	0.8	3.6	48.9	0.0	17.5
ASGROW RX813W	2	109.0	83.3	0.0	2.9	33.3	0.0	15.0
ASGROW RX962W	3	117.8	95.0	0.0	4.6	43.9	0.0	18.0
DEKALB XL390B	4	123.4	95.6	0.0	13.0	52.6	0.0	15.7
DEKALB EXP 10078	5	106.0	82.2	0.0	11.6	42.2	0.0	15.7
DEKALB EXP 10080	6	140.2	87.2	0.0	8.8	52.4	0.0	19.1
FUNK G-4747W-1	7	154.8	89.4	0.0	7.2	51.2	0.0	18.9
FUNK G-4768W	8	118.4	80.0	0.0	11.7	47.7	0.0	17.9
FUNK G-4779W	9	140.3	77.8	0.0	3.1	43.8	0.0	17.0
FUNK G-4787W	10	152.3	79.4	0.0	4.8	48.1	0.0	17.3
GOLDEN HARVEST H-2644W	11	88.5	78.3	0.0	5.5	31.2	0.0	15.8
GOLDEN HARVEST H-2660W	12	140.9	75.0	0.0	5.8	50.4	0.0	16.8
IFSI 74-3	13	144.6	65.6	0.0	10.2	51.0	0.0	16.6
IFSI 77-1	14	103.9	74.4	0.0	8.2	44.6	0.0	17.1
IFSI 79-1	15	88.4	72.8	0.0	14.4	44.7	0.0	15.5
IFSI 79-3	16	127.6	84.4	0.0	1.3	43.2	0.0	16.1
IFSI 80-4	17	127.9	75.6	0.9	3.6	39.8	0.0	20.5
IFSI 80-6	18	115.1	76.1	0.0	6.8	44.2	0.0	16.6
IFSI 80-8	19	133.9	79.4	0.0	8.0	43.7	0.0	17.9
IFSI 80-13	20	90.4	80.0	0.0	9.2	39.0	0.0	15.9
IFSI 81-2	21	115.8	80.0	0.0	2.7	30.5	0.0	17.9
IFSI 81-3	22	129.6	79.4	0.7	6.4	44.2	0.0	16.6
IFSI 82-1	23	121.2	86.7	0.0	7.1	36.1	0.0	16.2
IFSI 82-2	24	100.2	77.8	0.0	4.6	44.3	0.0	18.3
IFSI 82-3	25	122.8	85.6	0.0	5.7	37.4	0.0	17.5
IFSI 82-4	26	134.5	94.4	0.0	4.1	45.6	0.0	19.4
IFSI 82-5	27	151.9	96.1	0.0	1.7	46.3	0.0	15.4
JACQUES EXP 81113W	28	103.6	82.2	0.6	0.0	38.9	0.0	15.8
JACQUES EXP 81115W	29	154.9	90.0	0.0	3.2	40.8	0.0	16.1
JACQUES W200	30	100.2	67.2	0.8	4.0	51.6	0.0	15.8
JACQUES W300	31	133.1	83.3	0.0	15.8	46.5	0.0	17.0
LYNKS SC-WLA	32	131.8	78.3	0.0	9.6	46.5	0.0	16.8
LYNKS SC-IM	33	83.0	82.2	0.0	4.6	39.9	0.0	15.4
MEACHAM'S MV58	34	145.1	93.3	0.0	5.9	43.2	0.0	16.6
MEACHAM'S MV68	35	93.0	74.4	0.0	2.1	45.2	0.0	17.4
MEACHAM'S MV78	36	132.5	65.6	1.4	3.5	48.1	0.0	17.7
MEACHAM'S MV88	37	114.3	58.3	2.2	0.9	42.5	0.0	18.8
MEACHAM'S MX50	38	109.0	83.9	0.0	10.6	38.2	0.0	16.5
NC+ 8707W	39	131.0	95.0	0.0	16.0	48.2	0.0	16.6
NORTHROP KING X233A	40	151.7	83.9	0.0	14.7	52.8	0.0	17.0

TABLE 8. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
O'S GOLD SX2560W	41	102.0	92.8	0.0	16.5	47.6	0.0	15.3
O'S GOLD SX2680W	42	139.8	72.8	0.0	3.0	47.7	0.0	16.2
P-A-G 386036W	43	151.6	97.8	0.0	17.3	51.3	0.0	17.1
P-A-G SX 70W	44	127.3	76.7	0.0	10.8	49.4	0.0	18.1
P-A-G 644W	45	125.5	91.1	0.0	8.1	50.6	0.0	17.4
PIONEER BRAND 519	46	112.1	88.3	0.6	1.2	45.8	0.0	16.9
PRINCETON SP936	47	116.6	67.2	0.0	5.5	43.7	0.0	16.9
PRINCETON SX910	48	119.5	74.4	0.0	3.8	42.5	0.0	16.7
STURDY GROW SG908W	49	110.4	75.6	0.0	3.1	46.7	0.0	15.8
STURDY GROW SG910W	50	102.2	75.6	0.0	4.2	38.9	0.0	16.7
STURDY GROW SG912W	51	117.7	85.0	0.0	8.9	52.1	0.0	15.4
STURDY GROW SG935W	52	123.7	81.1	0.0	4.0	46.9	0.0	17.5
STURDY GROW EXP 0695	53	124.2	81.1	0.0	1.5	49.4	0.0	15.1
STURDY GROW EXP 1719	54	64.4	85.0	0.0	3.8	29.9	0.0	15.8
STURDY GROW EXP 1A7517	55	128.9	89.4	0.0	5.6	48.2	0.0	15.3
STURDY GROW EXP 17563	56	125.8	88.9	0.0	1.9	43.2	0.0	17.8
WHISNAND EXP 1W	57	116.7	79.4	0.0	10.4	44.1	0.0	15.7
WHISNAND EXP 7W	58	111.5	84.4	0.0	14.1	43.0	0.0	17.6
WHISNAND 53W	59	124.8	78.3	0.0	2.1	30.8	0.0	17.2
WHISNAND 55W	60	120.6	82.8	0.0	5.3	39.4	0.0	16.6
WHISNAND 71W	61	130.0	78.9	0.8	17.1	48.0	0.0	16.3
WHISNAND 75W	62	109.2	63.3	0.0	5.3	42.1	0.0	17.5
WHISNAND 77W	63	123.0	89.4	0.0	18.7	46.3	0.0	15.6
WHISNAND EXP 77-2W	64	124.3	84.4	1.3	13.3	42.1	0.0	16.2
WHISNAND 91W	65	126.8	88.3	0.0	8.5	49.8	0.0	17.7
YELLOW CHECK PIONEER BRAND 3320	66	129.3	95.0	0.0	0.6	38.6	0.0	15.7
YELLOW CHECK B73 X M017	67	121.0	83.9	0.0	1.9	42.8	0.0	15.7
YELLOW CHECK US13	68	88.7	66.1	0.8	22.8	40.8	0.0	16.5
MEAN	.	121.0	81.5	0.2	7.2	44.2	.	16.8
LSD 0.05	.	39.0	16.8	.	9.5	8.2	.	1.9
CVZ	.	19.8	12.6	.	80.9	11.3	.	7.1

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 9. YIELD AND AGRONOMIC DATA FROM THE 1982 NATIONAL WHITE MAIZE VARIETY TRIAL AT NOVELTY, MO.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
PAYMASTER U398W	1	160.1	97.8	0.0	12.0	51.3	0.0	20.7
ASGROW RX813W	2	146.5	93.9	0.0	4.0	32.1	0.0	19.3
ASGROW RX962W	3	164.0	99.4	2.8	3.9	53.6	0.0	21.8
DEKALB XL390B	4	145.7	100.0	1.1	10.0	51.9	0.0	19.8
DEKALB EXP 10078	5	137.3	98.9	0.6	2.2	48.5	0.0	21.1
DEKALB EXP 10080	6	166.9	100.0	0.0	8.9	55.2	0.0	21.5
FUNK G-4747W-1	7	133.8	96.1	0.0	3.0	46.8	0.0	22.2
FUNK G-4768W	8	145.4	100.0	0.0	11.7	53.9	0.0	22.8
FUNK G-4779W	9	149.5	98.9	0.6	2.8	51.3	0.0	22.6
FUNK G-4787W	10	133.7	87.2	1.1	1.9	49.4	0.0	24.6
GOLDEN HARVEST H-2644W	11	126.2	94.4	0.0	10.3	36.9	0.0	17.8
GOLDEN HARVEST H-2660W	12	145.6	89.4	1.2	6.8	50.7	0.0	22.4
IFSI 74-3	13	175.7	93.9	0.0	3.6	48.6	0.0	21.6
IFSI 77-1	14	157.0	93.3	1.2	3.1	48.1	0.0	21.3
IFSI 79-1	15	149.2	82.8	0.0	8.8	45.5	0.0	17.2
IFSI 79-3	16	151.2	98.9	0.0	1.7	40.8	0.0	18.6
IFSI 80-4	17	128.1	93.9	0.0	3.0	43.2	0.0	24.2
IFSI 80-6	18	161.2	99.4	0.0	12.3	46.4	0.0	21.4
IFSI 80-8	19	167.8	96.1	1.1	13.4	45.8	0.0	20.9
IFSI 80-13	20	109.2	93.3	0.0	4.7	49.0	0.0	16.3
IFSI 81-2	21	120.6	96.1	0.0	3.0	36.4	0.0	18.0
IFSI 81-3	22	158.9	95.0	0.0	21.1	47.6	0.0	21.0
IFSI 82-1	23	115.7	98.3	0.0	7.4	35.5	0.0	21.1
IFSI 82-2	24	138.5	100.0	0.0	5.0	47.7	0.0	22.9
IFSI 82-3	25	107.4	98.3	0.0	2.3	38.6	0.0	19.0
IFSI 82-4	26	151.3	100.0	0.0	3.9	46.7	0.0	22.3
IFSI 82-5	27	141.6	95.0	0.0	2.3	43.4	0.0	16.7
JACQUES EXP 81113W	28	112.1	95.0	0.0	5.4	37.8	0.0	16.6
JACQUES EXP 81115W	29	118.6	97.2	0.0	3.4	35.1	0.0	18.1
JACQUES H200	30	127.4	97.8	0.6	12.4	45.8	0.0	17.1
JACQUES H300	31	150.9	97.8	0.6	5.7	49.7	0.0	22.5
LYNKS SC-WLA	32	143.8	97.8	1.1	8.0	48.7	0.0	22.2
LYNKS SC-WM	33	127.2	96.7	0.6	9.1	42.8	0.0	16.5
MEACHAM'S MV58	34	143.6	99.4	0.0	1.7	44.5	0.0	23.2
MEACHAM'S MV68	35	146.6	95.0	0.0	7.0	51.2	0.0	16.0
MEACHAM'S MV78	36	144.2	81.7	3.5	8.5	47.2	0.0	22.1
MEACHAM'S MV88	37	150.0	85.0	1.3	6.0	46.3	0.0	20.9
MEACHAM'S MX50	38	135.4	98.3	1.2	5.1	45.9	0.0	20.7
NC+ 8707W	39	150.7	97.8	1.8	10.7	49.0	0.0	21.6
NORTHROP KING X233A	40	164.0	95.0	0.0	5.4	50.4	0.0	21.2

TABLE 9. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
O'S GOLD SX2560W	41	136.3	88.9	1.7	4.5	47.7	0.0	18.6
O'S GOLD SX2680W	42	166.6	97.2	1.7	8.5	46.8	0.0	22.5
P-A-G 386036W	43	166.6	100.0	1.1	8.9	46.8	0.0	18.9
P-A-G SX 70W	44	140.2	100.0	2.2	7.2	49.5	0.0	22.4
P-A-G 644W	45	133.8	98.9	1.7	9.6	55.5	0.0	20.9
PIONEER BRAND 519	46	162.5	93.3	1.8	2.4	53.9	0.0	18.6
PRINCETON SP936	47	138.5	99.4	0.0	7.3	48.4	0.0	22.7
PRINCETON SX910	48	144.5	84.4	0.6	4.8	47.3	0.0	21.8
STURDY GROW SG908W	49	136.7	93.3	0.0	9.0	46.0	0.0	19.0
STURDY GROW SG910W	50	178.8	91.1	1.8	1.1	43.5	0.0	20.0
STURDY GROW SG912W	51	147.8	90.0	0.0	8.9	51.3	0.0	16.8
STURDY GROW SG935W	52	159.5	97.8	0.6	2.3	46.8	0.0	21.4
STURDY GROW EXP 0695	53	165.8	97.8	0.0	4.5	46.3	0.0	17.7
STURDY GROW EXP 1719	54	148.0	93.9	0.0	7.0	45.0	0.0	20.8
STURDY GROW EXP 1A7517	55	153.4	98.9	0.0	4.4	43.7	0.0	17.2
STURDY GROW EXP 17563	56	157.5	98.9	0.6	2.8	45.5	0.0	19.5
WHISNAND EXP 1W	57	139.8	90.6	0.0	10.0	45.0	0.0	17.7
WHISNAND EXP 7W	58	134.5	100.0	0.0	8.9	44.1	0.0	19.6
WHISNAND 53W	59	148.8	98.9	0.6	3.9	36.1	0.0	20.2
WHISNAND 55W	60	158.8	98.3	0.6	4.5	42.4	0.0	20.4
WHISNAND 71W	61	150.3	97.2	1.1	19.4	48.6	0.0	18.2
WHISNAND 75W	62	122.7	96.1	0.0	13.2	44.3	0.0	19.2
WHISNAND 77W	63	146.5	97.2	0.0	14.9	44.8	0.0	18.7
WHISNAND EXP 77-2W	64	123.2	98.9	0.0	11.3	40.3	0.0	18.4
WHISNAND 91W	65	137.6	96.7	1.1	6.7	48.7	0.0	22.7
YELLOW CHECK PIONEER BRAND 3320	66	170.4	98.3	0.0	3.4	41.3	0.0	17.1
YELLOW CHECK B73 X MO17	67	141.2	97.8	2.4	2.9	43.2	0.0	18.0
YELLOW CHECK US13	68	124.0	98.9	0.6	23.1	45.2	0.0	16.7
MEAN	.	144.7	95.8	0.6	7.0	45.9	.	20.0
LSD 0.05	.	23.3	8.6	.	8.3	4.4	.	1.8
CV%	.	9.9	5.5	.	72.6	5.8	.	5.6

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 10. YIELD AND AGRONOMIC DATA FROM THE 1982 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 %
PAYMASTER U398W	1	169.4	96.7	0.0	1.2	54.3	64.0	22.5
ASGROW RX813W	2	159.7	97.8	1.1	3.5	41.6	59.7	21.7
ASGROW RX962W	3	175.2	101.1	0.0	1.1	57.8	64.7	22.1
DEKALB XL390B	4	162.9	101.1	1.0	3.2	54.6	65.3	22.2
DEKALB EXP 10078	5	178.7	100.0	1.2	2.2	53.9	63.7	23.3
DEKALB EXP 10080	6	178.6	98.9	0.0	0.0	54.6	64.3	21.3
FUNK G-4747W-1	7	176.8	101.1	0.0	1.1	55.2	64.7	22.6
FUNK G-4768W	8	164.1	101.1	1.1	5.4	56.5	66.0	24.1
FUNK G-4779W	9	159.4	100.0	0.0	2.2	53.3	65.0	23.4
FUNK G-4787W	10	162.3	98.9	0.0	2.3	55.2	66.0	23.3
GOLDEN HARVEST H-2644W	11	138.2	96.7	1.1	1.1	48.7	59.3	21.7
GOLDEN HARVEST H-2660W	12	170.6	100.0	1.1	5.6	56.8	65.0	22.7
IFSI 74-3	13	173.8	100.0	0.0	2.2	50.7	65.0	23.1
IFSI 77-1	14	168.5	100.0	0.0	2.2	48.1	65.0	22.4
IFSI 79-1	15	153.7	91.1	0.0	7.4	54.6	63.7	20.9
IFSI 79-3	16	168.9	100.0	0.0	3.3	46.8	63.3	20.3
IFSI 80-4	17	149.8	100.0	0.0	0.0	46.1	63.3	23.8
IFSI 80-6	18	160.6	96.7	0.0	2.4	50.7	63.3	23.2
IFSI 80-8	19	160.1	100.0	0.0	9.0	53.3	63.3	24.8
IFSI 80-13	20	133.5	96.7	0.0	0.0	43.5	62.7	19.9
IFSI 81-2	21	143.5	100.0	0.0	1.1	43.5	62.7	21.3
IFSI 81-3	22	172.0	98.9	0.0	2.2	53.9	62.3	22.5
IFSI 82-1	23	134.0	101.1	0.0	0.0	40.9	62.0	23.8
IFSI 82-2	24	151.0	98.9	0.0	2.2	51.3	63.3	24.0
IFSI 82-3	25	144.7	101.1	1.1	0.0	44.2	62.7	21.4
IFSI 82-4	26	158.7	95.6	0.0	3.6	50.7	64.7	25.5
IFSI 82-5	27	149.5	100.0	0.0	1.1	48.7	61.3	21.3
JACQUES EXP 81113W	28	130.9	98.9	0.0	0.0	49.4	61.7	18.9
JACQUES EXP 81115W	29	142.6	101.1	1.1	1.1	41.6	62.3	20.6
JACQUES W200	30	130.4	100.0	1.1	4.4	48.7	61.0	19.1
JACQUES W300	31	164.8	98.9	0.0	0.0	55.2	65.0	23.5
LYNKS SC-WLA	32	173.9	98.9	0.0	1.1	54.9	64.0	23.0
LYNKS SC-WM	33	137.5	96.7	1.1	5.9	50.7	61.0	19.0
MEACHAM'S MV58	34	154.0	95.6	0.0	2.4	45.5	61.7	22.6
MEACHAM'S MV68	35	154.8	96.7	1.1	3.5	60.4	63.0	19.7
MEACHAM'S MV78	36	169.0	98.9	0.0	1.1	57.8	65.0	22.9
MEACHAM'S MV88	37	156.8	96.7	0.0	2.2	53.3	64.0	23.2
MEACHAM'S MX50	38	158.7	98.9	1.1	1.1	48.7	65.0	22.2
NC+ 8707W	39	178.7	98.9	0.0	2.3	56.5	65.0	22.3
NORTHROP KING X233A	40	183.7	102.2	0.0	2.2	52.0	65.0	22.5

TABLE 10. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
O'S GOLD SX2560W	41	144.2	96.7	2.4	6.9	50.7	62.7	20.4
O'S GOLD SX2680W	42	163.4	100.0	0.0	1.1	56.5	64.7	23.8
P-A-G 386036W	43	179.2	98.9	0.0	1.1	52.0	63.7	22.9
P-A-G SX 70W	44	160.7	98.9	0.0	3.3	52.6	65.0	22.9
P-A-G 644W	45	149.3	100.0	2.3	4.4	59.8	66.0	21.9
PIONEER BRAND 519	46	136.8	97.8	1.1	0.0	54.6	65.7	21.8
PRINCETON SP936	47	156.5	98.9	1.1	1.1	57.2	65.0	22.9
PRINCETON SX910	48	166.6	92.2	0.0	1.3	54.6	64.3	23.0
STURDY GROW SG908W	49	138.4	98.9	2.3	4.4	52.6	62.0	20.7
STURDY GROW SG910W	50	116.3	92.2	1.2	4.7	49.4	61.3	21.2
STURDY GROW SG912W	51	158.2	100.0	0.0	2.2	51.3	63.0	18.9
STURDY GROW SG935W	52	185.3	98.9	0.0	2.2	56.5	64.7	22.8
STURDY GROW EXP 0695	53	159.2	97.8	0.0	1.1	48.7	60.7	20.0
STURDY GROW EXP 1719	54	138.5	96.7	0.0	4.6	43.8	61.3	21.5
STURDY GROW EXP 1A7517	55	152.1	97.8	1.1	2.3	50.0	61.0	19.6
STURDY GROW EXP 17563	56	179.3	100.0	1.1	0.0	52.0	64.7	23.3
WHISNAND EXP 1W	57	137.4	98.9	1.1	4.6	44.2	60.7	20.7
WHISNAND EXP 7W	58	150.3	97.8	2.4	4.5	48.1	61.0	21.7
WHISNAND 53W	59	140.4	101.1	0.0	1.1	34.4	58.3	22.2
WHISNAND 55W	60	168.7	98.9	1.1	1.1	46.1	61.0	22.6
WHISNAND 71W	61	155.3	95.6	3.5	4.7	50.4	63.3	20.5
WHISNAND 75W	62	141.3	100.0	1.1	3.3	50.0	61.0	21.3
WHISNAND 77W	63	168.5	100.0	2.2	1.1	46.1	61.7	21.2
WHISNAND EXP 77-2W	64	149.2	100.0	0.0	0.0	48.0	61.7	21.9
WHISNAND 91W	65	179.3	100.0	0.0	2.2	52.6	65.0	22.5
YELLOW CHECK PIONEER BRAND 3320	66	157.6	98.9	1.1	0.0	42.9	62.0	20.8
YELLOW CHECK B73 X M017	67	138.9	98.9	0.0	0.0	46.8	62.0	18.5
YELLOW CHECK US13	68	116.0	100.0	4.4	13.3	53.3	60.0	19.8
MEAN	.	156.5	98.7	0.6	2.5	50.7	63.1	21.9
LSD 0.05	.	18.7	.	.	4.9	4.2	1.1	0.9
CV%	.	7.3	.	.	119.5	5.1	1.8	2.4

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 11. YIELD AND AGRONOMIC DATA FROM THE 1982 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 %
PAYMASTER U398W	1	163.6	100.0	0.0	0.0	0.0	0.0	20.2
ASGROW RX813W	2	122.8	100.0	0.0	0.0	0.0	0.0	20.0
ASGROW RX962W	3	154.6	100.0	0.0	0.0	0.0	0.0	20.1
DEKALB XL390B	4	158.8	100.0	0.0	0.0	0.0	0.0	20.0
DEKALB EXP 10078	5	184.8	100.0	0.0	0.0	0.0	0.0	20.0
DEKALB EXP 10080	6	170.9	100.0	0.0	0.0	0.0	0.0	20.0
FUNK G-4747W-1	7	142.2	100.0	0.0	0.0	0.0	0.0	20.2
FUNK G-4768W	8	149.6	100.0	0.0	0.0	0.0	0.0	20.9
FUNK G-4779W	9	158.1	100.0	0.0	0.0	0.0	0.0	20.1
FUNK G-4787W	10	142.8	100.0	0.0	0.0	0.0	0.0	20.2
GOLDEN HARVEST H-2644W	11	131.8	100.0	0.0	0.0	0.0	0.0	19.5
GOLDEN HARVEST H-2660W	12	165.2	100.0	0.0	0.0	0.0	0.0	20.3
IFSI 74-3	13	161.6	100.0	0.0	0.0	0.0	0.0	20.3
IFSI 77-1	14	153.8	100.0	0.0	0.0	0.0	0.0	20.7
IFSI 79-1	15	150.1	100.0	0.0	0.0	0.0	0.0	19.3
IFSI 79-3	16	162.8	100.0	0.0	0.0	0.0	0.0	20.0
IFSI 80-4	17	153.7	100.0	0.0	0.0	0.0	0.0	20.2
IFSI 80-6	18	155.9	100.0	0.0	0.0	0.0	0.0	20.0
IFSI 80-8	19	166.1	100.0	0.0	0.0	0.0	0.0	20.9
IFSI 80-13	20	130.2	100.0	0.0	0.0	0.0	0.0	18.3
IFSI 81-2	21	137.9	100.0	0.0	0.0	0.0	0.0	19.7
IFSI 81-3	22	162.0	100.0	0.0	0.0	0.0	0.0	20.1
IFSI 82-1	23	127.0	100.0	0.0	0.0	0.0	0.0	19.9
IFSI 82-2	24	152.6	100.0	0.0	0.0	0.0	0.0	20.5
IFSI 82-3	25	150.1	100.0	0.0	0.0	0.0	0.0	20.0
IFSI 82-4	26	176.0	100.0	0.0	0.0	0.0	0.0	20.6
IFSI 82-5	27	151.1	100.0	0.0	0.0	0.0	0.0	19.7
JACQUES EXP 81113W	28	139.9	100.0	0.0	0.0	0.0	0.0	18.8
JACQUES EXP 81115W	29	148.2	100.0	0.0	0.0	0.0	0.0	20.1
JACQUES W200	30	127.5	100.0	0.0	0.0	0.0	0.0	18.9
JACQUES W300	31	130.6	100.0	0.0	0.0	0.0	0.0	20.5
LYNKS SC-WLA	32	153.8	100.0	0.0	0.0	0.0	0.0	20.4
LYNKS SC-WM	33	112.8	100.0	0.0	0.0	0.0	0.0	18.9
MEACHAM'S MV58	34	167.0	100.0	0.0	0.0	0.0	0.0	20.2
MEACHAM'S MV68	35	131.2	100.0	0.0	0.0	0.0	0.0	19.5
MEACHAM'S MV78	36	165.7	100.0	0.0	0.0	0.0	0.0	20.0
MEACHAM'S MV88	37	145.3	100.0	0.0	0.0	0.0	0.0	20.1
MEACHAM'S MX50	38	144.2	100.0	0.0	0.0	0.0	0.0	20.1
NC+ 8707W	39	166.7	100.0	0.0	0.0	0.0	0.0	20.1
NORTHROP KING X233A	40	166.8	100.0	0.0	0.0	0.0	0.0	20.3

TABLE 11. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
O'S GOLD SX2560W	41	107.9	100.0	0.0	0.0	0.0	0.0	18.6
O'S GOLD SX2680W	42	166.3	100.0	0.0	0.0	0.0	0.0	20.3
P-A-G 386036W	43	158.8	100.0	0.0	0.0	0.0	0.0	20.0
P-A-G SX 70W	44	163.7	100.0	0.0	0.0	0.0	0.0	20.1
P-A-G 644W	45	145.3	100.0	0.0	0.0	0.0	0.0	20.1
PIONEER BRAND 519	46	155.0	100.0	0.0	0.0	0.0	0.0	19.3
PRINCETON SP936	47	147.9	100.0	0.0	0.0	0.0	0.0	20.3
PRINCETON SX910	48	156.2	100.0	0.0	0.0	0.0	0.0	20.1
STURDY GROW SG908W	49	131.9	100.0	0.0	0.0	0.0	0.0	18.7
STURDY GROW SG910W	50	142.3	100.0	0.0	0.0	0.0	0.0	19.5
STURDY GROW SG912W	51	138.2	100.0	0.0	0.0	0.0	0.0	19.1
STURDY GROW SG935W	52	172.5	100.0	0.0	0.0	0.0	0.0	20.1
STURDY GROW EXP 0695	53	142.3	100.0	0.0	0.0	0.0	0.0	19.5
STURDY GROW EXP 1719	54	132.0	100.0	0.0	0.0	0.0	0.0	19.3
STURDY GROW EXP 1A7517	55	145.8	100.0	0.0	0.0	0.0	0.0	18.8
STURDY GROW EXP 17563	56	155.5	100.0	0.0	0.0	0.0	0.0	20.5
WHISNAND EXP 1W	57	152.1	100.0	0.0	0.0	0.0	0.0	19.3
WHISNAND EXP 7W	58	150.2	100.0	0.0	0.0	0.0	0.0	19.9
WHISNAND 53W	59	127.8	100.0	0.0	0.0	0.0	0.0	19.8
WHISNAND 55W	60	127.5	100.0	0.0	0.0	0.0	0.0	20.4
WHISNAND 71W	61	141.8	100.0	0.0	0.0	0.0	0.0	19.8
WHISNAND 75W	62	141.0	100.0	0.0	0.0	0.0	0.0	19.5
WHISNAND 77W	63	163.9	100.0	0.0	0.0	0.0	0.0	19.7
WHISNAND EXP 77-2W	64	139.5	100.0	0.0	0.0	0.0	0.0	19.7
WHISNAND 91W	65	158.6	100.0	0.0	0.0	0.0	0.0	20.3
YELLOW CHECK PIONEER BRAND 3320	66	157.6	100.0	0.0	0.0	0.0	0.0	20.0
YELLOW CHECK B73 X M017	67	151.4	100.0	0.0	0.0	0.0	0.0	18.9
YELLOW CHECK US13	68	96.7	100.0	0.0	0.0	0.0	0.0	19.1
MEAN	.	148.6	100.0	0.0	0.0	.	.	19.9
LSD 0.05	.	27.3	.	.	.	.	.	0.5
CV%	.	11.3	.	.	.	.	.	1.4

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 12. YIELD AND AGRONOMIC DATA FROM THE 1982 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 %
PAYMASTER U398W	1	140.1	90.9	0.0	4.8	0.0	79.7	0.0
ASGROW RX813W	2	110.9	93.9	0.0	0.0	0.0	76.0	0.0
ASGROW RX962W	3	140.9	92.4	1.7	1.5	0.0	80.7	0.0
DEKALB XL390B	4	134.4	98.5	0.0	0.0	0.0	80.3	0.0
DEKALB EXP 1007B	5	141.9	90.9	0.0	1.7	0.0	79.3	0.0
DEKALB EXP 10080	6	145.7	95.5	1.7	0.0	0.0	79.7	0.0
FUNK G-4747W-1	7	138.2	90.9	1.6	0.0	0.0	80.3	0.0
FUNK G-4768W	8	139.7	92.4	0.0	0.0	0.0	80.3	0.0
FUNK G-4779W	9	138.7	93.9	0.0	0.0	0.0	78.0	0.0
FUNK G-4787W	10	140.9	97.0	0.0	0.0	0.0	82.3	0.0
GOLDEN HARVEST H-2644W	11	100.6	95.5	0.0	0.0	0.0	75.3	0.0
GOLDEN HARVEST H-2660W	12	169.3	101.5	0.0	0.0	0.0	80.0	0.0
IFSI 74-3	13	170.6	101.5	0.0	1.6	0.0	80.7	0.0
IFSI 77-1	14	151.8	100.0	0.0	0.0	0.0	80.3	0.0
IFSI 79-1	15	124.3	92.4	0.0	1.7	0.0	78.3	0.0
IFSI 79-3	16	147.1	101.5	0.0	0.0	0.0	78.3	0.0
IFSI 80-4	17	141.8	98.5	0.0	0.0	0.0	77.7	0.0
IFSI 80-6	18	137.4	98.5	0.0	0.0	0.0	77.3	0.0
IFSI 80-8	19	158.6	95.5	0.0	0.0	0.0	79.0	0.0
IFSI 80-13	20	115.6	97.0	0.0	0.0	0.0	77.0	0.0
IFSI 81-2	21	141.1	89.4	0.0	0.0	0.0	78.3	0.0
IFSI 81-3	22	153.9	97.0	0.0	0.0	0.0	78.3	0.0
IFSI 82-1	23	127.8	95.5	0.0	1.5	0.0	76.0	0.0
IFSI 82-2	24	125.1	93.9	0.0	3.3	0.0	79.7	0.0
IFSI 82-3	25	113.0	104.5	0.0	1.3	0.0	78.3	0.0
IFSI 82-4	26	160.5	100.0	0.0	0.0	0.0	80.3	0.0
IFSI 82-5	27	162.3	95.5	0.0	0.0	0.0	77.3	0.0
JACQUES EXP 81113W	28	105.1	92.4	0.0	1.6	0.0	77.0	0.0
JACQUES EXP 81115W	29	113.0	104.5	0.0	0.0	0.0	78.3	0.0
JACQUES W200	30	71.2	97.0	0.0	0.0	0.0	76.7	0.0
JACQUES W300	31	141.1	98.5	0.0	0.0	0.0	79.7	0.0
LYNKS SC-WLA	32	137.0	95.5	0.0	1.5	0.0	80.0	0.0
LYNKS SC-WM	33	66.8	87.9	0.0	1.6	0.0	75.3	0.0
MEACHAM'S MV58	34	133.5	97.0	1.6	0.0	0.0	76.7	0.0
MEACHAM'S MV68	35	143.0	89.4	0.0	0.0	0.0	78.0	0.0
MEACHAM'S MV78	36	144.4	86.4	1.7	0.0	0.0	80.3	0.0
MEACHAM'S MV88	37	155.1	92.4	1.6	0.0	0.0	80.0	0.0
MEACHAM'S MX50	38	116.8	92.4	0.0	0.0	0.0	77.7	0.0
NC+ 8707W	39	160.1	97.0	1.3	0.0	0.0	80.3	0.0
NORTHROP KING x233A	40	152.9	93.9	0.0	3.2	0.0	80.0	0.0

TABLE 12. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
O'S GOLD SX2560W	41	134.4	98.5	0.0	0.0	0.0	75.7	0.0
O'S GOLD SX2680W	42	153.1	104.5	0.0	0.0	0.0	81.0	0.0
P-A-G 386036W	43	151.0	93.9	0.0	1.7	0.0	77.7	0.0
P-A-G SX 70W	44	114.2	100.0	0.0	0.0	0.0	78.3	0.0
P-A-G 644W	45	136.4	100.0	0.0	0.0	0.0	80.3	0.0
PIONEER BRAND 519	46	142.4	93.9	0.0	0.0	0.0	83.3	0.0
PRINCETON SP936	47	128.8	93.9	0.0	0.0	0.0	81.0	0.0
PRINCETON SX910	48	142.1	87.9	0.0	0.0	0.0	79.3	0.0
STURDY GROW SG908W	49	120.8	103.0	0.0	3.0	0.0	76.3	0.0
STURDY GROW SG910W	50	129.0	81.8	0.0	1.7	0.0	77.3	0.0
STURDY GROW SG912W	51	147.9	98.5	0.0	1.4	0.0	78.7	0.0
STURDY GROW SG935W	52	165.2	98.5	0.0	0.0	0.0	80.0	0.0
STURDY GROW EXP 0695	53	122.8	100.0	1.3	0.0	0.0	76.7	0.0
STURDY GROW EXP 1719	54	122.2	90.9	0.0	0.0	0.0	76.7	0.0
STURDY GROW EXP 1A7517	55	140.7	95.5	0.0	0.0	0.0	77.7	0.0
STURDY GROW EXP 17563	56	153.5	89.4	0.0	1.8	0.0	79.3	0.0
WHISNAND EXP 1W	57	120.5	92.4	1.8	0.0	0.0	76.7	0.0
WHISNAND EXP 7W	58	104.7	89.4	0.0	3.9	0.0	77.3	0.0
WHISNAND 53W	59	104.7	103.0	0.0	0.0	0.0	77.0	0.0
WHISNAND 55W	60	125.7	93.9	0.0	1.7	0.0	76.7	0.0
WHISNAND 71W	61	116.2	92.4	1.8	0.0	0.0	77.3	0.0
WHISNAND 75W	62	123.0	97.0	0.0	1.7	0.0	76.7	0.0
WHISNAND 77W	63	111.5	93.9	0.0	0.0	0.0	77.3	0.0
WHISNAND EXP 77-2W	64	119.7	90.9	0.0	0.0	0.0	78.7	0.0
WHISNAND 91W	65	142.2	97.0	0.0	3.0	0.0	80.0	0.0
YELLOW CHECK PIONEER BRAND 3320	66	140.9	92.4	0.0	0.0	0.0	77.3	0.0
YELLOW CHECK B73 X M017	67	131.0	92.4	0.0	0.0	0.0	78.7	0.0
YELLOW CHECK US13	68	103.1	100.0	0.0	0.0	0.0	77.7	0.0
MEAN	.	133.2	95.3	0.2	0.7	.	78.5	.
LSD 0.05	.	20.1	.	.	.	.	1.8	.
CV%	.	9.2	.	.	.	.	1.4	.

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.
SAME RANDOMIZATION AS WESLACO, TX.

TABLE 13. YIELD AND AGRONOMIC DATA FROM THE 1982 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 %
PAYMASTER U398W	1	184.5	95.5	0.0	12.9	0.0	95.7	24.5
ASGROW RX813W	2	116.9	77.3	0.0	3.9	0.0	90.3	17.5
ASGROW RX962W	3	160.7	92.4	0.0	28.6	0.0	95.0	25.5
DEKALB XL390B	4	183.9	90.9	0.0	16.8	0.0	95.0	19.5
DEKALB EXP 10078	5	171.2	104.5	0.0	17.2	0.0	94.7	21.5
DEKALB EXP 10080	6	196.7	109.1	0.0	16.1	0.0	96.0	24.5
FUNK G-4747W-1	7	154.8	90.9	0.0	13.2	0.0	94.7	23.5
FUNK G-4768W	8	136.8	100.0	0.0	15.3	0.0	95.0	30.3
FUNK G-4779W	9	149.9	104.5	0.0	11.3	0.0	96.7	22.4
FUNK G-4787W	10	152.5	110.6	0.0	12.8	0.0	97.3	24.8
GOLDEN HARVEST H-2644W	11	117.1	97.0	0.0	17.0	0.0	91.0	13.6
GOLDEN HARVEST H-2660W	12	152.0	89.4	0.0	27.1	0.0	95.7	25.2
IFSI 74-3	13	161.8	97.0	0.0	9.5	0.0	95.7	24.5
IFSI 77-1	14	155.2	103.0	0.0	21.8	0.0	95.7	25.7
IFSI 79-1	15	169.1	90.9	0.0	25.0	0.0	94.7	20.8
IFSI 79-3	16	141.3	86.4	0.0	1.9	0.0	92.3	20.8
IFSI 80-4	17	170.4	112.1	0.0	6.6	0.0	94.3	27.8
IFSI 80-6	18	189.5	98.5	0.0	4.7	0.0	92.7	21.6
IFSI 80-8	19	176.2	92.4	0.0	15.0	0.0	93.7	26.1
IFSI 80-13	20	141.4	100.0	0.0	1.5	0.0	92.0	16.6
IFSI 81-2	21	157.6	100.0	0.0	6.0	0.0	93.0	17.4
IFSI 81-3	22	186.5	95.5	0.0	26.2	0.0	94.3	21.3
IFSI 82-1	23	132.4	90.9	0.0	10.1	0.0	91.3	17.8
IFSI 82-2	24	166.0	109.1	0.0	6.8	0.0	95.0	21.4
IFSI 82-3	25	145.6	92.4	1.3	2.0	0.0	93.7	22.5
IFSI 82-4	26	187.3	93.9	0.0	4.8	0.0	94.7	25.8
IFSI 82-5	27	145.1	89.4	0.0	6.4	0.0	94.0	22.0
JACQUES EXP 81113W	28	121.5	92.4	0.0	4.4	0.0	92.7	20.8
JACQUES EXP 81115W	29	157.9	100.0	0.0	6.9	0.0	95.3	23.6
JACQUES W200	30	111.2	104.5	0.0	12.0	0.0	91.3	17.7
JACQUES W300	31	160.0	92.4	0.0	13.6	0.0	95.3	28.8
LYNKS SC-WLA	32	192.1	104.5	0.0	13.9	0.0	94.7	23.4
LYNKS SC-WM	33	114.0	86.4	0.0	7.4	0.0	91.0	16.8
MEACHAM'S MV58	34	140.3	87.9	0.0	10.2	0.0	92.0	21.1
MEACHAM'S MV68	35	159.5	92.4	0.0	8.3	0.0	93.7	20.0
MEACHAM'S MV78	36	169.9	81.8	0.0	11.1	0.0	95.0	24.1
MEACHAM'S MV88	37	166.8	103.0	0.0	10.8	0.0	95.3	22.4
MEACHAM'S MX50	38	154.8	98.5	0.0	20.3	0.0	94.0	20.3
NC+ 8707W	39	164.1	84.8	0.0	15.7	0.0	95.3	28.6
NORTHRUP KING X233A	40	160.5	107.6	0.0	32.4	0.0	95.0	23.1

TABLE 13. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HST IN	DAY FLWR	MOIST %
O'S GOLD SX2566W	41	147.3	90.9	0.0	5.8	0.0	92.7	19.2
O'S GOLD SX2566N	42	165.3	103.0	0.0	20.0	0.0	95.7	22.3
P-A-G 386036W	43	170.1	95.5	0.0	6.9	0.0	92.7	19.8
P-A-G SX 70W	44	169.1	93.9	0.0	21.2	3.0	94.7	20.2
P-A-G 644W	45	166.5	104.5	0.0	13.4	0.0	96.7	19.1
PIONEER BRAND 519	46	163.6	97.0	0.0	20.8	0.0	95.3	19.5
PRINCETON SP936	47	161.0	93.9	0.0	28.7	0.0	95.7	23.0
PRINCETON SX910	48	171.5	93.9	0.0	38.2	0.0	95.0	21.8
STURDY GROW SG908W	49	128.3	97.0	0.0	4.2	0.0	93.3	21.8
STURDY GROW SG910H	50	170.0	95.5	0.0	7.9	0.0	91.7	19.6
STURDY GROW SG912H	51	171.3	107.6	1.3	21.3	0.0	93.0	17.3
STURDY GROW SG935W	52	186.8	106.1	0.0	10.2	0.0	95.3	25.9
STURDY GROW EXP 0695	53	151.7	110.6	0.0	9.5	0.0	90.0	17.9
STURDY GROW EXP 1719	54	149.3	97.0	0.0	6.2	0.0	91.7	15.4
STURDY GROW EXP 1A7517	55	134.7	107.6	0.0	8.6	0.0	92.3	16.8
STURDY GROW EXP 17563	56	163.7	101.5	0.0	6.3	0.0	94.0	27.2
WHISNAND EXP 1W	57	147.5	101.5	0.0	6.0	0.0	93.0	21.8
WHISNAND EXP 7W	58	143.3	100.0	0.0	13.1	0.0	92.7	18.8
WHISNAND 55W	59	152.3	101.5	0.0	4.3	0.0	92.0	18.1
WHISNAND 55W	60	144.1	109.1	0.0	29.7	0.0	92.0	19.3
WHISNAND 71W	61	153.6	104.5	0.0	17.7	0.0	93.3	16.9
WHISNAND 75W	62	153.0	97.0	0.0	6.4	0.0	92.3	22.3
WHISNAND 77W	63	147.7	95.5	0.0	7.9	0.0	93.0	19.9
WHISNAND EXP 77-2W	64	137.1	81.8	0.0	13.4	0.0	93.0	21.0
WHISNAND 91W	65	167.6	103.0	0.0	15.8	0.0	96.0	23.8
YELLOW CHECK PIONEER BRAND 3320	66	162.3	98.5	0.0	4.3	0.0	90.0	15.8
YELLOW CHECK B73 X M017	67	179.4	92.4	0.0	7.8	0.0	91.7	15.8
YELLOW CHECK US13	68	122.1	97.0	0.0	27.3	0.0	92.3	15.8
MEAN	.	156.9	97.5	0.0	13.1	.	93.8	21.3
LSD 0.05	.	29.4	.	.	17.9	.	2.1	.
CV%	.	11.5	.	.	63.6	.	1.3	.

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.
MOISTURE DATA MEASURED IN ONLY ONE REPLICATION.

TABLE 14. YIELD AND AGRONOMIC DATA FROM THE 1982 NATIONAL WHITE MAIZE VARIETY TRIAL AT WESLACO, TX.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
PAYMASTER U398W	1	54.2	100.0	0.0	1.8	33.7	56.3	0.0
ASGROW RX813W	2	25.5	87.5	0.0	9.6	29.3	53.0	0.0
ASGROW RX962W	3	31.5	96.7	0.0	1.8	33.0	56.3	0.0
DEKALB XL390B	4	74.0	109.2	0.0	3.4	32.3	56.3	0.0
DEKALB EXP 1007B	5	101.1	87.5	0.0	0.9	33.7	54.0	0.0
DEKALB EXP 10080	6	110.9	102.5	0.0	8.0	36.7	52.0	0.0
FUNK G-4747W-1	7	44.1	105.0	0.0	8.0	32.3	55.7	0.0
FUNK G-4768W	8	80.7	87.5	0.0	3.1	34.7	53.0	0.0
FUNK G-4779W	9	48.2	106.7	0.0	1.5	35.0	55.7	0.0
FUNK G-4787W	10	78.2	96.7	0.0	0.8	32.0	56.7	0.0
GOLDEN HARVEST H-2644W	11	93.1	94.2	0.0	3.6	31.7	52.0	0.0
GOLDEN HARVEST H-2660W	12	28.2	95.8	0.0	1.1	31.7	58.0	0.0
IFSI 74-3	13	43.2	86.7	0.0	2.0	33.7	57.3	0.0
IFSI 77-1	14	29.8	92.5	0.0	11.9	34.3	55.0	0.0
IFSI 79-1	15	56.3	102.5	0.0	0.9	32.3	53.0	0.0
IFSI 79-3	16	39.9	110.0	0.0	0.7	30.3	54.0	0.0
IFSI 80-4	17	58.2	85.8	0.0	3.2	32.0	52.0	0.0
IFSI 80-6	18	74.2	104.2	0.0	1.4	31.7	53.0	0.0
IFSI 80-8	19	70.1	109.2	0.0	2.4	32.0	53.0	0.0
IFSI 80-13	20	57.9	105.8	0.0	1.7	30.3	53.0	0.0
IFSI 81-2	21	26.1	79.2	0.0	0.0	27.7	53.0	0.0
IFSI 81-3	22	64.2	110.0	0.0	3.0	32.0	53.0	0.0
IFSI 82-1	23	68.9	95.0	0.0	0.8	27.0	53.0	0.0
IFSI 82-2	24	70.6	115.0	1.0	2.6	32.0	56.3	0.0
IFSI 82-3	25	27.6	105.0	0.0	0.0	30.0	56.3	0.0
IFSI 82-4	26	77.5	103.3	0.0	0.8	33.3	56.3	0.0
IFSI 82-5	27	98.6	105.0	0.0	0.8	31.3	53.0	0.0
JACQUES EXP 81113W	28	61.0	95.8	0.0	2.6	31.3	53.0	0.0
JACQUES EXP 81115W	29	37.1	115.8	0.0	3.1	29.0	54.7	0.0
JACQUES W200	30	65.3	99.2	0.0	1.7	28.7	52.0	0.0
JACQUES W300	31	56.7	114.2	0.0	7.2	32.7	58.0	0.0
LYNKS SC-WLA	32	31.2	100.8	0.0	11.8	32.0	56.3	0.0
LYNKS SC-WM	33	61.7	103.3	0.0	1.6	31.7	52.0	0.0
MEACHAM'S MV58	34	99.8	95.0	0.0	4.6	32.0	52.0	0.0
MEACHAM'S MV68	35	74.9	96.7	0.0	1.5	34.7	53.0	0.0
MEACHAM'S MV78	36	42.7	104.2	0.0	9.8	34.7	55.7	0.0
MEACHAM'S MV88	37	30.7	102.5	0.0	6.6	34.0	55.7	0.0
MEACHAM'S MX50	38	96.2	106.7	0.0	4.0	29.3	53.0	0.0
NC+ 8707W	39	51.2	119.2	0.0	2.8	35.0	54.7	0.0
NORTHROP KING X233A	40	26.7	110.0	0.0	5.0	30.7	58.0	0.0

TABLE 14. CONTINUED.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %
O'S GOLD SX2560W	41	50.3	109.2	0.0	4.1	30.7	53.0	0.0
O'S GOLD SX2680W	42	53.3	105.0	0.0	6.3	37.0	56.7	0.0
P-A-G 386036W	43	100.0	120.8	0.0	5.6	36.0	53.0	0.0
P-A-G SX 70W	44	94.7	143.3	0.0	3.6	29.3	54.0	0.0
P-A-G 644W	45	62.7	130.8	0.0	3.6	32.0	55.7	0.0
PIONEER BRAND 519	46	124.7	110.0	0.0	1.2	33.0	58.0	0.0
PRINCETON SP936	47	61.4	123.3	0.0	2.2	34.0	58.0	0.0
PRINCETON SX910	48	37.5	120.8	0.0	3.4	35.3	56.3	0.0
STURDY GROW SG908W	49	37.2	117.5	0.0	5.3	30.0	51.0	0.0
STURDY GROW SG910W	50	70.5	106.7	0.0	4.1	31.3	53.0	0.0
STURDY GROW SG912W	51	77.8	107.5	0.0	8.5	35.7	52.0	0.0
STURDY GROW SG935W	52	60.7	122.5	0.0	1.8	34.7	56.3	0.0
STURDY GROW EXP 0695	53	76.2	111.7	0.0	3.8	32.3	50.0	0.0
STURDY GROW EXP 1719	54	74.3	105.0	0.0	10.5	31.3	53.0	0.0
STURDY GROW EXP 1A7517	55	80.9	113.3	0.0	0.9	33.0	52.0	0.0
STURDY GROW EXP 17563	56	62.5	120.8	0.0	4.9	32.3	53.0	0.0
WHISNAND EXP 1W	57	75.0	82.5	0.0	0.9	31.7	52.0	0.0
WHISNAND EXP 7W	58	69.1	97.5	0.0	1.0	29.7	53.0	0.0
WHISNAND 53W	59	89.6	115.0	0.8	2.0	30.3	51.0	0.0
WHISNAND 55W	60	60.5	120.8	0.0	7.4	29.7	53.0	0.0
WHISNAND 71W	61	82.0	87.5	0.0	3.9	35.0	51.0	0.0
WHISNAND 75W	62	83.4	111.7	0.0	3.8	31.7	53.0	0.0
WHISNAND 77W	63	98.8	99.2	0.0	4.2	30.7	52.0	0.0
WHISNAND EXP 77-2W	64	68.8	94.2	0.0	1.8	32.3	54.7	0.0
WHISNAND 91W	65	36.8	96.7	0.0	5.8	30.7	55.7	0.0
YELLOW CHECK PIONEER BRAND 3320	66	73.4	101.7	0.0	3.3	31.0	51.0	0.0
YELLOW CHECK B73 X M017	67	100.8	107.5	0.0	3.9	30.3	53.0	0.0
YELLOW CHECK US13	68	49.6	115.8	0.0	9.4	33.7	53.0	0.0
MEAN	.	64.4	105.0	0.0	3.8	32.2	54.1	.
LSD 0.05	.	28.5	.	.	6.5	3.5	2.8	.
CV%	.	27.1	.	.	105.8	6.7	3.2	.

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.
SAME RANDOMIZATION AS COLLEGE STATION, TX.

TABLE 15. COMBINED YIELD AND AGRONOMIC DATA FROM 12 SITES OF THE 1982 NATIONAL WHITE MAIZE VARIETY TRIAL.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %	BI	SD
PAYMASTER U398W	1	134.8	93.1	0.6	9.7	51.1	77.2	20.8	1.36	10.9
ASGROW RX813W	2	114.0	93.9	0.3	9.7	38.9	72.6	18.8	1.18	17.4
ASGROW RX982W	3	130.8	98.8	0.6	10.0	51.2	76.9	21.1	1.47	8.7
DEKALB XL350B	4	130.8	99.7	0.7	10.3	51.6	76.5	19.3	1.10	10.7
DEKALB EXP 10078	5	135.9	97.1	0.3	7.3	49.6	75.4	20.1	0.99	18.2
DEKALB EXP 10090	6	152.8	99.4	0.5	9.6	53.2	75.7	20.6	0.89	11.0
FUNK G-4747W-1	7	125.9	97.4	0.2	9.7	50.3	76.1	20.8	1.21	16.9
FUNK G-4768W	8	121.5	96.6	1.0	10.5	51.8	76.7	22.6	0.82	15.8
FUNK G-4779W	9	131.1	97.6	0.4	7.7	49.8	77.9	20.7	1.09	9.6
FUNK G-4787W	10	126.7	94.2	0.5	6.7	51.4	77.9	21.5	0.82	15.9
GOLDEN HARVEST H-2644W	11	110.2	94.5	0.3	11.7	41.8	72.4	17.7	0.46	15.1
GOLDEN HARVEST H-2660W	12	132.2	92.9	0.9	12.0	52.3	76.7	20.6	1.37	16.7
IFSI 74-3	13	142.2	94.0	0.2	9.1	50.7	77.5	20.7	1.47	11.3
IFSI 77-1	14	127.8	94.0	0.2	11.0	48.3	76.7	21.1	1.40	13.1
IFSI 79-1	15	121.3	90.1	0.2	14.7	48.8	74.4	18.4	1.20	15.2
IFSI 79-3	16	132.7	97.8	0.1	9.6	44.6	74.1	18.8	1.23	14.9
IFSI 80-4	17	129.1	96.0	0.1	8.9	44.7	74.7	22.7	1.04	19.4
IFSI 80-6	18	136.6	95.5	0.1	9.5	47.9	74.6	20.6	1.08	10.4
IFSI 80-8	19	141.6	97.3	0.2	12.6	46.6	75.1	22.0	1.10	9.5
IFSI 80-13	20	106.9	95.9	0.1	8.6	42.0	73.4	17.3	0.82	12.5
IFSI 81-2	21	114.3	94.0	0.0	7.1	39.9	73.8	18.7	1.23	11.5
IFSI 81-3	22	135.7	97.8	0.4	15.6	47.5	74.9	20.6	1.24	9.4
IFSI 82-1	23	115.3	96.4	0.0	9.2	39.2	73.0	20.0	0.58	10.3
IFSI 82-2	24	127.3	98.3	0.1	5.6	46.5	76.4	21.7	0.98	14.0
IFSI 82-3	25	109.6	98.4	0.9	6.2	42.5	75.6	19.5	1.20	12.2
IFSI 82-4	26	144.0	96.6	0.2	8.1	47.8	75.8	22.3	1.04	8.6
IFSI 82-5	27	133.1	96.9	0.8	7.7	47.4	73.7	18.9	0.65	15.9
JACQUES EXP 81113W	28	107.0	96.3	0.2	9.5	43.2	73.3	17.5	0.69	11.7
JACQUES EXP 81115W	29	116.1	101.3	0.8	7.3	41.4	74.8	17.3	1.12	17.2
JACQUES W200	30	100.9	94.9	0.7	11.0	48.0	72.7	17.3	0.69	15.6
JACQUES W300	31	128.8	97.5	0.2	11.8	50.1	77.2	21.6	1.03	10.3
LYNKS SC-HLA	32	130.0	97.0	1.2	11.4	50.6	76.1	20.9	1.54	8.6
LYNKS SC-WM	33	96.4	95.7	0.9	10.5	45.8	72.4	17.2	0.76	15.1
MEACHAM'S MV58	34	136.4	97.7	0.2	8.5	44.8	73.4	20.4	0.58	13.0
MEACHAM'S MV68	35	127.4	94.6	0.1	9.1	51.9	74.3	17.9	0.93	16.2
MEACHAM'S MV78	36	132.1	87.6	1.0	10.0	50.8	76.8	21.0	1.33	9.1
MEACHAM'S MV88	37	126.1	88.6	0.8	7.7	48.0	76.5	20.9	1.40	10.1
MEACHAM'S MX50	38	119.0	96.5	0.6	13.5	45.3	75.5	20.1	0.73	17.4
NC+ 8707W	39	134.4	99.4	0.5	11.8	51.7	76.8	21.2	1.28	12.2
NORTHRUP KING X233A	40	135.4	99.9	0.2	13.3	59.4	76.9	20.5	1.49	15.1
O'S GOLD SX2560W	41	115.4	96.6	0.9	12.0	49.4	73.5	18.1	0.92	12.6
O'S GOLD SX2630W	42	124.9	96.5	0.2	9.9	50.6	76.9	20.6	1.23	7.5
P-A-G 386036W	43	143.4	99.9	0.2	8.1	50.4	74.8	19.9	0.89	12.0
P-A-G SX 70W	44	126.7	101.5	1.0	12.8	48.9	76.2	20.7	0.80	18.1
P-A-G 644W	45	121.6	102.0	1.0	11.7	53.4	77.7	19.9	1.07	8.9

TABLE 15. CONTINUED.

ENTRY NAME	NO.	YLD EU/A	STAND %	ROOT L %	STLK L %	E HGT IN	DAY FLWR	MOIST %	BI	SD
PIONEER BRAND 519	46	139.0	97.7	0.5	6.1	51.5	77.4	19.3	0.42	12.7
PRINCETON SP936	47	126.6	97.5	0.2	9.7	50.2	76.7	21.0	1.07	10.1
PRINCETON SX910	48	129.4	94.0	0.3	11.9	48.8	76.2	20.5	1.33	9.2
STURDY GROW SG908W	49	116.8	97.3	0.5	9.5	49.2	73.6	18.7	0.99	12.4
STURDY GROW SG910W	50	128.2	92.2	0.3	9.2	45.6	73.4	19.3	0.91	20.4
STURDY GROW SG912W	51	129.9	97.9	0.1	13.3	51.9	74.5	17.5	0.90	8.9
STURDY GROW SG935W	52	140.0	97.9	0.4	8.6	51.2	76.6	21.1	1.45	13.7
STURDY GROW EXP 0695	53	136.4	99.4	0.4	8.3	47.3	72.1	17.9	0.80	15.5
STURDY GROW EXP 1719	54	116.6	96.6	0.1	11.1	43.3	73.1	18.7	0.78	20.3
STURDY GROW EXP 1A7517	55	124.0	99.1	0.5	10.3	47.2	73.2	17.1	0.82	12.7
STURDY GROW EXP 17563	56	137.1	98.5	0.5	6.6	47.7	74.9	21.0	1.17	8.1
WHISNAND EXP 1W	57	120.3	95.4	0.8	11.5	46.3	73.3	18.4	0.78	8.8
WHISNAND EXP 7W	58	118.8	96.3	0.7	11.1	46.0	73.3	18.7	0.83	12.4
WHISNAND 53W	59	121.9	96.7	0.3	6.8	37.6	72.2	18.9	0.61	11.5
WHISNAND 55W	60	139.8	100.6	0.7	12.3	43.8	72.9	19.7	0.93	23.9
WHISNAND 71W	61	126.5	93.9	1.3	15.2	48.5	73.4	18.2	0.77	12.8
WHISNAND 75W	62	118.4	95.4	0.4	11.1	45.0	72.6	18.9	0.69	11.6
WHISNAND 77W	63	128.8	96.5	0.6	11.6	47.1	73.2	18.3	0.70	16.1
WHISNAND EXP 77-2W	64	117.7	94.8	0.4	10.7	46.1	74.2	18.8	0.61	8.9
WHISNAND 91W	65	128.7	97.7	0.7	10.7	50.5	76.8	21.0	1.44	8.8
YELLOW CHECK PIONEER BRAND 3320	66	146.8	97.0	0.9	4.7	43.6	73.1	18.0	0.90	16.2
YELLOW CHECK B73 X M017	67	130.8	97.2	0.5	8.0	45.4	73.4	17.3	0.65	15.3
YELLOW CHECK US13	68	97.6	96.5	1.3	20.9	48.6	73.1	17.6	0.71	19.1
MEAN	.	126.7	96.6	0.5	10.1	47.6	74.9	19.7	1.00	12.7
LSD 0.05	.	12.5	4.8	0.7	3.8	3.2	1.3	1.1	0.14	
SITE MEANS										
CHAMPAIGN, IL	.	130.3	98.0	1.9	13.9	.	.	20.9		
LAFAYETTE, IN	.	127.7	98.3	.	61.9	58.8	.	21.1		
MANHATTAN, KS	.	106.6	94.7	1.2	5.4	.	74.2	16.1		
SILVER LAKE, KS	.	106.7	96.7	0.0	2.8	.	85.5	18.3		
LEXINGTON, KY	.	124.0	96.7	0.6	3.6	53.7	.	20.5		
HUNTSDALE, MO	.	121.0	81.5	0.2	7.2	44.2	.	16.8		
NOVELTY, MO	.	144.7	95.8	0.6	7.0	45.9	.	20.0		
KNOXVILLE, TN	.	156.5	98.7	0.6	2.5	50.7	63.1	21.9		
UNION CITY, TN	.	148.6	100.0	0.0	0.0	.	.	19.9		
COLLEGE STATION, TX	.	133.2	95.3	0.2	0.7	.	78.5	.		
HALFWAY, TX	.	156.9	97.5	0.0	13.1	.	93.8	21.3		
WESLACO, TX	.	64.4	105.0	0.0	3.8	32.2	54.1	.		

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 16. EUROPEAN CORN BORER AND VIRUS DATA FROM THE 1982 NATIONAL WHITE MAIZE VARIETY TRIAL.

ENTRY NAME	NO.	IECB RTG	2ECB IN	VIR INF%	VIR SEVR	AVG VIR
PAYMASTER U398W	1	2.0	3.4	65.5	4.0	3.1
ASGROW RX813W	2	1.7	3.0	82.7	4.4	3.8
ASGROW RX962W	3	2.0	2.6	71.1	4.6	3.5
DEKALB XL390B	4	2.0	2.7	70.5	4.1	3.2
DEKALB EXP 10078	5	2.7	3.0	86.0	4.5	4.0
DEKALB EXP 10080	6	2.3	2.8	78.4	4.9	4.0
FUNK G-4747W-1	7	1.7	2.7	86.7	4.4	4.0
FUNK G-4768W	8	2.7	2.1	77.4	4.7	3.9
FUNK G-4779W	9	2.0	2.1	78.2	4.6	3.8
FUNK G-4787W	10	1.7	2.3	74.7	4.1	3.3
GOLDEN HARVEST H-2644W	11	1.3	1.4	98.5	4.5	4.5
GOLDEN HARVEST H-2660W	12	2.0	3.4	67.3	4.3	3.3
IFSI 74-3	13	1.3	2.8	69.4	4.1	3.2
IFSI 77-1	14	1.7	3.2	66.9	4.1	3.0
IFSI 79-1	15	3.0	3.7	69.5	4.4	3.4
IFSI 79-3	16	2.7	2.7	71.0	3.8	3.0
IFSI 80-4	17	1.3	2.3	90.7	4.5	4.2
IFSI 80-6	18	1.0	2.1	62.1	4.5	3.2
IFSI 80-8	19	1.7	2.4	65.5	4.6	3.4
IFSI 80-13	20	2.3	2.6	93.5	4.7	4.5
IFSI 81-2	21	2.0	1.4	97.2	4.6	4.5
IFSI 81-3	22	1.7	1.6	57.2	4.1	2.8
IFSI 82-1	23	3.7	2.2	95.5	4.7	4.6
IFSI 82-2	24	2.3	2.2	81.1	4.8	4.0
IFSI 82-3	25	2.3	1.8	82.8	5.0	4.3
IFSI 82-4	26	1.3	2.3	75.3	4.7	3.8
IFSI 82-5	27	2.0	2.4	80.9	4.1	3.6
JACQUES EXP 81113W	28	2.3	1.8	91.3	5.0	4.6
JACQUES EXP 81115W	29	3.0	1.7	93.7	4.9	4.6
JACQUES W200	30	2.7	3.2	80.8	4.6	4.0
JACQUES W300	31	2.7	3.1	67.2	3.9	2.9
LYNKS SC-WLA	32	2.0	2.1	86.0	4.3	3.9
LYNKS SC-WM	33	1.7	2.9	70.4	4.8	3.7
MEACHAM'S MV58	34	2.3	2.4	66.9	5.0	3.8
MEACHAM'S MV68	35	2.3	2.7	67.6	5.0	3.8
MEACHAM'S MV78	36	2.0	3.7	74.5	4.3	3.4
MEACHAM'S MV88	37	1.7	3.3	48.8	4.3	2.7
MEACHAM'S MX50	38	2.3	2.0	80.2	4.8	4.1
NC+ 8707W	39	1.0	2.0	70.7	4.0	3.1
NORTHROP KING X233A	40	2.7	2.3	76.7	4.6	3.8

TABLE 16. CONTINUED.

ENTRY NAME	NO.	1ECB RTG	2ECB IN	VIR INFZ	VIR SEVR	AVG VIR
O'S GOLD SX2560W	41	2.0	2.7	87.6	4.0	3.7
O'S GOLD SX2680W	42	1.7	3.3	48.8	4.5	2.8
P-A-G 386036W	43	1.7	2.3	78.4	4.4	3.7
P-A-G SX 70W	44	2.0	2.5	79.9	5.1	4.3
P-A-G 644W	45	2.0	2.3	63.6	4.2	3.1
PIIONEER BRAND 519	46	1.7	1.5	74.9	4.4	3.5
PRINCETON SP936	47	1.3	2.8	67.0	4.8	3.4
PRINCETON SX910	48	2.0	2.7	87.1	4.3	3.9
STURDY GROW SG908W	49	1.0	3.1	93.0	4.3	4.1
STURDY GROW SG910W	50	2.0	3.5	87.4	4.9	4.4
STURDY GROW SG912W	51	1.7	2.8	73.1	5.0	4.0
STURDY GROW SG935W	52	1.7	3.5	56.8	4.5	2.9
STURDY GROW EXP 0695	53	1.7	3.1	73.7	4.8	3.8
STURDY GROW EXP 1719	54	1.7	2.2	78.8	4.3	3.6
STURDY GROW EXP 1A7517	55	2.0	1.6	90.0	4.8	4.5
STURDY GROW EXP 17563	56	2.7	2.3	83.1	4.3	3.8
WHISNAND EXP 1W	57	1.7	2.1	76.4	5.2	4.2
WHISNAND EXP 7W	58	2.0	3.4	84.4	4.7	4.1
WHISNAND 53W	59	2.7	2.2	85.5	5.7	5.0
WHISNAND 55W	60	1.3	3.0	88.2	4.8	4.3
WHISNAND 71W	61	3.0	2.5	83.5	4.4	3.8
WHISNAND 75W	62	2.0	2.2	88.5	4.6	4.2
WHISNAND 77W	63	1.7	2.0	90.6	5.1	4.7
WHISNAND EXP 77-2W	64	1.0	2.3	80.1	4.9	4.2
WHISNAND 91W	65	1.3	3.5	65.7	4.0	3.0
YELLOW CHECK PIONEER BRAND 3320	66	1.3	1.6	88.4	4.0	3.6
YELLOW CHECK B73 X M017	67	2.0	2.9	67.5	5.1	3.7
YELLOW CHECK US13	68	1.7	2.5	88.9	5.6	5.1
PIONEER BRAND 3184 REST. CHECK	69	2.3	0.9	.	.	.
WF9 X W182E SUSC. CHECK	70	1.3	3.6	.	.	.
MEAN	.	2.0	2.5	77.7	4.6	3.8
LSD 0.05	.	.	1.3	19.8	0.8	1.0
CVZ	.	.	31.8	15.6	10.5	16.6

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 17. YIELD AND AGRONOMIC DATA FROM COMMON ENTRIES IN THE 1981-82 NATIONAL WHITE MAIZE VARIETY TRIALS.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	DROP E %	E HGT IN	DAYS FLK
ASGROW RX962W	2	131.5	97.3	4.6	10.8	.	48.6	77.5
FUNK G-4747H-1	2	133.8	97.7	2.8	9.7	.	46.4	77.4
FUNK G-4768W	2	125.4	97.2	5.3	11.2	.	48.7	77.5
FUNK G-4787W	2	124.4	94.6	4.6	7.6	.	47.9	78.9
GOLDEN HARVEST H-2644W	2	108.9	88.6	1.2	9.5	.	38.4	74.1
GOLDEN HARVEST H-2660W	2	135.5	93.9	5.5	12.0	.	50.6	77.2
IFSI 74-3	2	132.4	93.9	3.6	9.3	.	46.9	78.0
IFSI 77-1	2	129.2	93.5	3.3	10.8	.	47.4	77.7
IFSI 79-1	2	124.0	93.0	3.5	14.5	.	46.2	75.4
IFSI 80-13	2	115.8	95.8	0.9	7.5	.	40.5	75.0
IFSI 80-6	2	141.7	96.1	0.4	11.8	.	45.5	75.7
IFSI 81-2	2	116.5	93.2	6.4	7.2	.	38.1	75.3
IFSI 81-3	2	139.5	96.5	1.3	15.8	.	46.2	76.0
JACQUES H200	2	113.9	95.5	4.3	11.8	.	44.9	74.5
LYNKS SC-WLA	2	136.4	94.4	6.4	10.6	.	48.0	76.9
LYNKS SC-WM	2	110.4	95.4	4.4	11.5	.	43.7	74.3
MEACHAM'S MV58	2	141.0	96.5	3.4	8.8	.	44.6	75.4
MEACHAM'S MV68	2	126.5	95.5	0.3	11.7	.	42.6	74.8
MEACHAM'S MV78	2	135.0	90.2	6.3	10.4	.	42.3	77.5
MEACHAM'S MV88	2	135.5	91.8	4.9	7.3	.	47.5	77.2
MEACHAM'S MX50	2	123.0	95.3	6.1	12.5	.	43.7	76.5
PAYMASTER U398W	2	136.9	92.7	4.5	8.4	.	48.2	77.5
PIONEER BRAND 519	2	142.8	96.9	2.5	8.8	.	48.8	77.9
PRINCETON SP936	2	133.8	93.7	3.3	8.7	.	47.8	77.3
PRINCETON SX910	2	133.6	92.4	4.3	11.5	.	47.3	77.6
STURDY GROW EXP 0695	2	131.5	96.6	0.2	11.6	.	41.5	73.7
STURDY GROW SG908W	2	120.3	95.7	3.9	10.7	.	47.2	75.1
STURDY GROW SS916W	2	134.8	94.2	2.2	9.7	.	46.0	75.4
STURDY GROW SS912W	2	129.7	95.8	0.8	11.8	.	47.0	75.7
STURDY GROW SG935W	2	141.3	95.2	4.1	8.8	.	47.8	77.2
WHISHAND EXP 77-2W	2	120.3	93.8	2.6	12.4	.	43.5	75.5
WHISHAND 71W	2	128.5	94.7	3.8	14.4	.	45.1	74.9
WHISHAND 75W	2	119.2	94.9	2.8	11.6	.	43.4	74.5
WHISHAND 77W	2	127.2	95.3	3.1	12.4	.	44.1	74.9
WHISHAND 91W	2	131.6	96.4	5.6	12.0	.	48.9	77.7
YELLOW CHECK B73 X M017	2	138.1	95.5	3.5	8.5	.	42.2	74.8
YELLOW CHECK PIONEER BRAND 3320	2	143.5	96.1	1.5	6.2	.	40.9	74.9
YELLOW CHECK US13	2	98.3	95.3	4.7	21.6	.	46.7	74.9
MEAN	.	128.8	94.8	3.5	10.8	.	45.6	76.1

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.
NO. IN HEADINGS REFERS TO YEARS OF DATA.

TABLE 18. YIELD AND AGRONOMIC DATA FROM COMMON ENTRIES IN THE 1980-82 NATIONAL WHITE MAIZE VARIETY TRIALS.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	DROP E %	E HGT IN	DAYS FLW
FUNK G-4747W-1	3	116.0	96.1	3.0	6.8	0.4	46.2	78.0
FUNK G-4787W	3	106.1	93.8	5.5	7.1	3.4	47.9	79.8
GOLDEN HARVEST H-2644W	3	98.3	88.4	2.5	8.6	1.1	38.8	74.1
GOLDEN HARVEST H-2660W	3	117.9	92.9	5.1	10.5	0.8	49.2	77.9
IFSI 74-3	3	112.3	91.8	4.5	8.0	0.2	46.6	73.6
IFSI 77-1	3	113.3	92.7	6.1	9.4	1.1	46.7	78.1
IFSI 79-1	3	107.4	91.7	3.9	12.7	0.7	46.5	76.0
IFSI 80-13	3	105.6	94.4	1.3	6.2	1.0	48.1	74.8
IFSI 80-6	3	125.0	94.3	1.0	9.8	0.7	45.7	75.9
JACQUES W200	3	98.8	93.0	4.4	10.7	0.4	44.9	74.8
LYNKS SC-WLA	3	118.8	92.8	5.6	9.5	0.4	47.2	77.7
LYNKS SC-WM	3	101.1	93.2	4.6	11.1	2.7	43.8	74.7
MEACHAM'S MV78	3	118.0	88.9	6.1	8.7	0.7	47.2	77.9
MEACHAM'S MV88	3	117.2	90.0	5.8	7.8	1.0	47.1	77.6
MEACHAM'S MX50	3	109.0	93.9	9.1	12.9	0.9	43.5	77.3
PIONEER BRAND 519	3	125.0	95.3	3.5	7.7	0.5	48.5	78.1
PRINCETON SP936	3	116.8	92.7	4.7	7.8	1.1	48.0	77.9
PRINCETON SX910	3	117.1	92.7	4.9	9.6	1.0	47.3	77.9
STURDY GROW SG908W	3	107.9	93.8	3.4	10.0	1.2	47.1	75.3
STURDY GROW SG935W	3	120.5	94.0	3.8	9.0	0.7	47.5	78.0
WHISNAND EXP 77-2W	3	100.1	92.2	5.8	11.0	0.5	43.7	75.4
WHISNAND 75W	3	105.9	93.9	3.7	11.4	0.8	44.2	74.8
WHISNAND 77W	3	114.1	94.2	4.0	11.7	0.5	44.2	74.9
YELLOW CHECK B73 X M017	3	122.0	93.7	2.8	9.0	1.0	42.7	74.6
YELLOW CHECK US13	3	87.8	93.7	6.1	19.9	1.2	46.0	75.0
MEAN	.	111.4	93.0	4.4	10.0	0.8	45.6	76.6

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.
NO. IN HEADINGS REFERS TO YEARS OF DATA.

TABLE 19. YIELD AND AGRONOMIC DATA FROM COMMON ENTRIES IN THE 1979-82 NATIONAL WHITE MAIZE VARIETY TRIALS.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	DRCP E %	E HGT IN	DAYS FLW
FUNK G-4787W	4	111.5	94.1	5.5	7.1	0.4	50.3	76.3
GOLDEN HARVEST H-2644W	4	99.3	89.3	3.0	9.3	0.8	41.0	72.1
GOLDEN HARVEST H-2660W	4	118.8	92.0	5.4	10.4	1.3	51.7	75.7
IFSI 74-3	4	115.7	92.6	4.8	8.3	0.7	49.3	76.2
IFSI 77-1	4	115.8	93.0	6.4	10.6	1.1	49.6	75.7
IFSI 79-1	4	111.8	91.9	4.5	13.8	1.8	49.4	74.1
LYNKS SC-WLA	4	121.6	92.8	5.4	10.3	0.9	49.6	75.7
LYNKS SC-WM	4	101.7	93.1	5.2	11.7	2.1	46.4	72.9
PIONEER BRAND 519	4	125.9	94.9	4.7	8.5	0.9	50.3	76.0
STURDY GROW SG908W	4	107.9	93.3	4.3	12.5	1.0	49.8	73.5
STURDY GROW SG935W	4	122.4	93.1	4.0	8.9	0.9	50.0	75.9
WHISNAND 75W	4	106.2	93.5	3.8	12.4	2.0	46.2	72.7
WHISNAND 77W	4	110.7	93.4	4.3	12.5	1.0	46.0	72.8
YELLOW CHECK B73 X M017	4	120.3	92.4	3.2	8.9	1.3	44.7	72.7
MEAN	.	113.6	92.8	4.6	10.4	1.2	48.2	74.5

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.
NO. IN HEADINGS REFERS TO YEARS OF DATA.

TABLE 20. YIELD AND AGRONOMIC DATA FROM COMMON ENTRIES IN THE 1978-82 NATIONAL WHITE MAIZE VARIETY TRIALS.

ENTRY NAME	NO.	YLD BU/A	STAND %	ROOT L %	STLK L %	DROP E %	E HGT IN	DAYS FLW
GOLDEN HARVEST H-2644W	5	100.1	89.9	3.4	11.0	1.0	41.7	70.7
GOLDEN HARVEST H-2660W	5	116.9	91.5	5.7	11.8	1.3	52.8	74.9
IFSI 74-3	5	116.2	92.5	4.7	9.8	0.9	51.1	75.0
IFSI 77-1	5	114.5	92.2	5.8	12.7	1.3	51.2	74.9
PIONEER BRAND 519	5	124.2	94.6	4.7	9.2	1.0	52.1	75.0
STURDY GROW SG935W	5	120.8	92.3	4.2	10.7	1.0	51.5	74.4
WHISNAND 75W	5	103.7	93.0	3.8	15.6	2.2	47.7	71.3
WHISNAND 77W	5	109.2	92.9	5.1	14.0	1.5	47.2	71.6
YELLOW CHECK B73 X M017	5	117.7	90.6	3.1	9.2	1.7	45.3	71.6
MEAN	.	113.7	92.2	4.5	11.6	1.3	48.9	73.3

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.
 NO. IN HEADINGS REFERS TO YEARS OF DATA.

TABLE 21. 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 M017 AND PIONEER BRAND 3320. US13 WAS OMITTED FROM ALL CALCULATIONS.

SITE	YIELD (BU/A)		STALK LODGING %		EAR HEIGHT (IN)		DAYS TO FLOWERING	
	WHITE	YELLOW	WHITE	YELLOW	WHITE	YELLOW	WHITE	YELLOW
CHAMPAIGN, IL	129.8	169.3	13.8	5.0	--	--	--	--
LAFAYETTE, IN	126.9	165.0	62.0	50.8	58.7	57.0	--	--
MANHATTAN, KS	106.4	125.4	5.1	3.9	--	--	74.2	73.7
SILVER LAKE, KS	106.2	130.5	2.8	1.2	--	--	85.9	83.2
LEXINGTON, KY	123.6	145.8	3.5	1.3	75.2	51.7	--	--
HUNTSDALE, MO	121.4	125.2	7.1	1.3	44.3	40.7	--	--
NOVELTY, MO	144.6	155.8	6.9	3.2	46.0	42.3	--	--
KNOXVILLE, TN	157.4	148.3	2.4	0.0	50.9	44.9	63.2	62.0
UNION CITY, TN	149.2	154.5	0.0	0.0	--	--	--	--
COLLEGE STATION, TX	133.6	136.0	0.7	0.0	--	--	78.6	78.0
HALFWAY, TX	157.1	170.9	13.1	6.1	--	--	93.9	90.9
WESLACO, TX	64.0	87.1	3.7	3.6	32.2	30.7	54.1	52.0
MEAN	126.7	142.8	10.1	6.4	47.6	45.5	75.0	73.3

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.

TABLE 22. KERNEL QUALITY DATA FROM 13 SITES OF THE 1981 NATIONAL WHITE MAIZE VARIETY TRIAL.

ENTRY NAME	NO.	HORNY %	100 KW G	KER DENS
PAYMASTER UC1800W	1	82.3	33.7	1.25
PAYMASTER U396W	2	91.5	37.7	1.26
ASGROW RX962H	3	91.7	37.9	1.27
FUNK G-4747W-1	4	91.5	36.6	1.27
FUNK G-4768W	5	93.5	36.4	1.27
FUNK G-4787W	6	87.7	36.2	1.25
FUNK EXP 29276	7	90.4	36.1	1.26
FUNK EXP 29313	8	91.7	38.7	1.27
GOLDEN HARVEST H-2644W	9	88.5	32.1	1.26
GOLDEN HARVEST H-2660W	10	91.3	39.0	1.27
IFSI 79-5	11	87.7	39.4	1.25
IFSI 81-2	12	86.5	34.7	1.25
IFSI 81-3	13	92.7	33.9	1.25
IFSI 81-4	14	91.2	33.4	1.26
IFSI 81-5	15	87.1	37.0	1.26
IFSI 80-6	16	90.0	34.2	1.26
IFSI 81-7	17	92.3	37.7	1.27
IFSI 81-8	18	92.7	36.6	1.26
IFSI 81-9	19	87.7	32.3	1.25
IFSI 79-1	20	91.5	37.3	1.27
IFSI 77-1	21	92.3	38.5	1.27
IFSI 74-3	22	90.4	38.4	1.26
IFSI 80-13	23	77.7	33.2	1.21
JACQUES 200W	24	92.1	33.9	1.23
LYNKS SC-WLA	25	91.4	39.6	1.27
LYNKS SC-WM	26	90.8	33.5	1.25
MEACHAM'S MV58	27	90.8	35.4	1.26
MEACHAM'S MV68	28	89.6	34.4	1.25
MEACHAM'S MV78	29	90.8	38.8	1.28
MEACHAM'S MV88	30	91.9	38.4	1.25
MEACHAM'S MV50	31	92.5	33.6	1.27
MFA C4W	32	93.8	33.5	1.26
NORTHROP KING X233F6	33	92.7	38.5	1.27
O'S GOLD 25501W	34	90.0	33.9	1.26
O'S GOLD 25601W	35	83.1	33.7	1.23
O'S GOLD 26201W	36	89.2	34.1	1.25
O'S GOLD 26301W	37	89.6	35.5	1.28
O'S GOLD 26501W	38	91.9	38.6	1.29
O'S GOLD 26801W	39	92.3	39.4	1.26
PIONEER BRAND 519	40	88.8	33.7	1.24

TABLE 22. CONTINUED.

ENTRY NAME	NO.	HORNY %	100 KW G	KER DENS
PRINCETON SX910	41	90.5	38.4	1.28
PRINCETON SX936	42	91.5	37.8	1.25
STURDY GROW SG908W	43	81.7	35.0	1.25
STURDY GROW SG921W	44	89.2	35.9	1.27
STURDY GROW SG935W	45	91.5	37.2	1.26
STURDY GROW SG912W	46	90.0	36.9	1.24
STURDY GROW EXP 0668	47	89.6	30.1	1.25
STURDY GROW 0695	48	89.6	34.1	1.26
STURDY GROW SG910W	49	89.6	35.3	1.26
TENNESSEE T1105	50	91.9	34.6	1.25
TENNESSEE T1108	51	89.6	38.4	1.26
WHISNAND 71W	52	92.3	34.8	1.25
WHISNAND 75W	53	91.3	34.3	1.23
WHISNAND 77W	54	90.4	33.1	1.23
WHISNAND 79W (GA)	55	92.3	34.1	1.24
WHISNAND 91W	56	91.2	37.7	1.27
WHISNAND EXP 2W	57	92.9	34.6	1.25
WHISNAND EXP 77-2W	58	92.9	35.1	1.23
WHISNAND EXP 77-3W	59	91.9	35.4	1.24
ZIMMERMAN Z14	60	89.6	37.0	1.26
ZIMMERMAN Z54	61	88.1	35.4	1.29
YELLOW CHECK B73 X M017	62	72.5	33.1	1.23
YELLOW CHECK M017 X N28	63	83.5	34.1	1.24
YELLOW CHECK PIONEER BRAND 3320	64	91.9	35.7	1.26
YELLOW CHECK US13	65	80.8	30.3	1.26
MEAN	.	89.7	35.7	1.26
LSD 0.05	.	2.5	1.7	0.03
CV%	.	3.6	6.2	2.77

SEE PAGE 4 FOR EXPLANATION OF COLUMN HEADINGS.