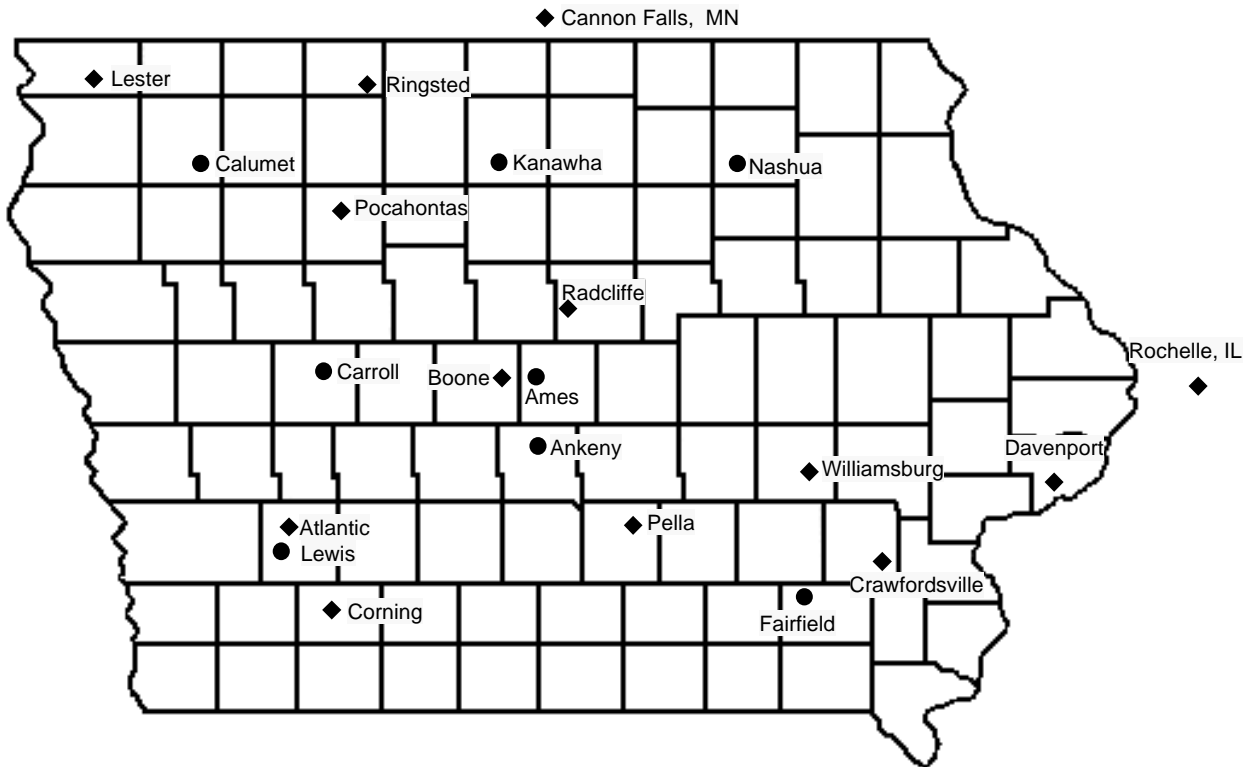


2005

Iowa Experimental Corn Trials



An electronic version (PDF format) of this document is available at
<http://www.agron.iastate.edu/corn/data/>

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The results of the Iowa Agriculture Experiment Station Corn Yield Trials are presented annually as a service to Iowa agriculture. The single-cross data presented herein are intended to provide preliminary information on the performance of open-pedigreed hybrids produced from released and unreleased inbred lines developed at ISU as well as combinations of public lines with foundation inbred lines. We also include lines released from other public breeding programs when they become available. The information should be of value to breeders, seed producers, and others who use experiment-station-developed lines as additional sources of germplasm in breeding programs. Further information on the performance of specific hybrids remains the responsibility of the producers of these hybrids. We do not use the information in this report to recommend or endorse any particular hybrid.

In 2005, we grew two different trials—Experiment 1, an early trial representing the maturity zone north of Highway 30, and Experiment 2, which was a late trial representing the maturity zone south of Highway 30. Experiment 1 was planted at 8 Iowa locations and Experiment 3 was planted at 13 Iowa locations (Tables 1a, 1b, and 1c). Planting dates ranged from late April to early May. Most locations were harvested in October, which is normal for Iowa. The dates of planting and harvesting for each trial are shown in Table 1b and 1c. Conditions for planting, emergence, growth, and development in 2005 were excellent across the entire state resulting in record yields. Despite dry conditions in the eastern and southeastern parts of the state, the estimated average yield for 2005 was 173 bushels per acre for Iowa, which is less than the 181 bushels per acre reported in 2004, both of which are greater than the previous record yields of 163 bushels per acre set in 2002. We have experienced good to excellent corn yields during the past 10 years within the state. The excellent yields of 2005 can be attributed to excellent maize-producing conditions with few biotic and abiotic stresses that were yield

limiting. In the dry areas of the state, the higher than expected yields are do to more drought resistant hybrids and excellent water holding capacity of Iowa soils.

Plots generally were 18 feet long (button to button) and included two rows spaced 30 inches (90 sq. ft. per plot) at most locations. There were minor variations in plot length among locations and cooperators, and the differences in plot size were considered in yield conversions. All yield and plant density conversions used button-to-button plot lengths to determine plot sizes. Seedbed preparation, fertilizer application, and cultivation practices were those normally recommended for optimum corn production at the locations where the trials were grown.

All trials were planted and harvested with equipment adapted for planting and harvesting small experimental corn plots. There was no gleaning of either dropped ears or ears on broken stalks at harvest, but stand data and root and stalk lodging were recorded before harvest. Harvest losses due to root and stalk lodging and dropped ears are reflected for hybrids at the sites where lodging and dropped ears occurred.

The single-cross hybrids tested were produced between lines released by ISU and other states. Because fewer lines are being released by other public breeding programs, fewer hybrids that included lines released from other states were available for testing. Data are presented for the lines that have experiment station designations and for several experimental lines from the ISU breeding program that have survived testcross and initial single-cross evaluations.

Beginning with this 2004 report we have changed the presentation of the data on the single crosses. Data at each location were analyzed with a mixed model where reps were included as a fixed effect and entries were included as a random effect (all locations were a RCB design). Best Linear Unbiased Predictors (BLUPs) are presented for each of the traits and are listed as deviations (+ or -) from the experiment mean, which is given at the bottom of each table. Presenting the traits as BLUPs that are + or - the experiment mean allows one to

immediately see if a hybrid was above or below the test mean. The disadvantage of using BLUPs is that it is harder to make statistical comparisons among hybrids. The rough equivalent of an $LSD_{(0.05)}$ would be to multiply the BLUP standard error (BLUP SE, given at the end of each table) by a factor of 2. We have also presented the minimum and maximum BLUPs, genetic variance component, error variance component, and repeatability of the trial for each trait to further aid you in determining the quality of data at each location.

Data combined over environments were similarly analyzed with a mixed model with all factors being fixed except for entries and the entry x location interaction. Otherwise, the data presentations for the combined analyses are similar to those for the individual location analyses. In addition to the information presented at the end of the individual location tables, for the combined location tables we have provided the G x E variance component, the number of replications per environment, and the total number of environments of data available for each trait.

All data are now presented in English units. Units for each trait are given in the column headers, and the units apply to both the experimental means as well as the BLUPs. For example, the numbers in the Plants Per Acre column need to be multiplied by 1000 to get actual plants per acre. The Adjusted Value column was calculated assuming \$1.79 per bushel for corn, 1.35% shrinkage, and \$0.037 per bushel per point drying cost.

In addition to evaluating single crosses, we also evaluate inbred line performance and report data on several inbred characteristics. These data are only collected on coded experiment station inbreds and on experimental inbreds from the ISU corn breeding program. Inbred data can be found in Table 25 of the report.

Table 26 of the report contains the publicly available pedigrees or derivations of the inbreds evaluated in single cross combinations.

Of the 21 locations grown in 2005, 9 were grown by the ISU corn breeding program and 10 were grown by commercial plant breeders. We appreciate and value the industry support we receive for this trial, and would like to acknowledge the corn breeders and their companies for growing this test for us. The industry cooperators are listed in Table 1b and 1c of the report.

An electronic version (PDF format) of this document is available at
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Table 1a. 2005 Iowa yield trial data summaries.

Experiment	Data	Link
Early test	8-location summary	Exp. 1
Late test	13-location summary	Exp. 3
Inbred test	3-location summary	Inbreds
	Inbred pedigree information	Pedigree

Table 1b. 2005 Iowa yield trial location information, sorted by experiment, then location.

Test	Location	Cooperator	Company	Planting Date	Harvest Date	Worksheet / Data Link
Early	Calumet	Dave Haden	Iowa State Univ.	4-May	14-Oct	101
Early	Cannon Falls, MN	Jerrold Tanke	Monsanto	24-Apr	7-Oct	1901
Early	Kanawha	Dave Rueber	Iowa State Univ.	3-May	17-Oct	201
Early	Lester	Bob Getschman	Monsanto	19-May	18-Oct	4301
Early	Nashua	Ken Pecinovsky	Iowa State Univ.	28-Apr	18-Oct	1001
Early	Pocahontas	Bob Getschman	Monsanto	28-Apr	20-Oct	301
Early	Radcliffe	Ken Mayberry	Mycogen	5-May	12-Oct	401
Early	Ringsted	Bob Getschman	Monsanto	3-May	19-Oct	4201
Late	Ames	Mike Fiscus	Iowa State Univ.	30-Apr	6-Oct	503
Late	Ankeny	Kent Berns	Iowa State Univ.	5-May	29-Sep	603
Late	Atlantic	Bob Getschman	Monsanto	25-Apr	29-Sep	2103
Late	Boone	Bill Forgey	Pau	27-Apr	22-Sep	3503
Late	Carroll	Dan Wenck	Iowa State Univ.	28-Apr	8-Oct	1203
Late	Corning	Bob Getschman	Monsanto	1-May	30-Sep	4003
Late	Crawfordsville	Kevin Van Dee	Iowa State Univ.	20-Apr	2-Oct	703
Late	Davenport	Bob Getschman	Monsanto	27-Apr	7-Oct	4103
Late	Fairfield	Mike Adam	Iowa State Univ.	26-Apr	26-Sep	803
Late	Lewis	Bernie Havlovic	Iowa State Univ.	29-Apr	7-Oct	2403
Late	Pella	Arlen Eggerling	Hawkeye Hybrids	n/a	1-Nov	1403
Late	Rochelle, IL	Mario Carlone	Pioneer	3-May	3-Oct	4403
Late	Williamsburg	Lance Veldboom	Monsanto	3-May	5-Oct	1503

Table 1c. 2005 Iowa yield trial location information, sorted by location.

Test	Location	Cooperator	Company	Planting Date	Harvest Date	Worksheet / Data Link
Late	Ames	Mike Fiscus	Iowa State Univ.	30-Apr	6-Oct	503
Late	Ankeny	Kent Berns	Iowa State Univ.	5-May	29-Sep	603
Late	Atlantic	Bob Getchsman	Monsanto	25-Apr	29-Sep	2103
Late	Boone	Bill Forgey	Pau	27-Apr	22-Sep	3503
Early	Calumet	Dave Haden	Iowa State Univ.	4-May	14-Oct	101
Early	Cannon Falls, MN	Jerrod Tanke	Monsanto	24-Apr	7-Oct	1901
Late	Carroll	Dan Wenck	Iowa State Univ.	28-Apr	8-Oct	1203
Late	Corning	Bob Getschman	Monsanto	1-May	30-Sep	4003
Late	Crawfordsville	Kevin Van Dee	Iowa State Univ.	20-Apr	2-Oct	703
Late	Davenport	Bob Getschman	Monsanto	27-Apr	7-Oct	4103
Late	Fairfield	Mike Adam	Iowa State Univ.	26-Apr	26-Sep	803
Early	Kanawha	Dave Rueber	Iowa State Univ.	3-May	17-Oct	201
Early	Lester	Bob Getschman	Monsanto	19-May	18-Oct	4301
Late	Lewis	Bernie Havlovic	Iowa State Univ.	29-Apr	7-Oct	2403
Early	Nashua	Ken Pecinovsky	Iowa State Univ.	28-Apr	18-Oct	1001
Late	Pella	Arlen Eggerling	Hawkeye Hybrids	n/a	1-Nov	1403
Early	Pocahontas	Bob Getschman	Monsanto	28-Apr	20-Oct	301
Early	Radcliffe	Ken Mayberry	Mycogen	5-May	12-Oct	401
Early	Ringsted	Bob Getschman	Monsanto	3-May	19-Oct	4201
Late	Rochelle, IL	Mario Carlone	Pioneer	3-May	3-Oct	4403
Late	Williamsburg	Lance Veldboom	Monsanto	3-May	5-Oct	1503

Table 2. Agronomic data for single crosses grown near Calumet, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Ear Height
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	in
BA1566/B100	-24.1	0.0	37	1.2	-2.2	-0.3	-51.3	.
B109/B114	-2.1	0.0	24	1.1	12.2	0.9	-12.9	.
B110/B114	3.8	0.0	19	0.3	2.4	1.8	3.5	.
B129/B114	7.7	0.0	16	-0.2	-1.1	0.9	14.5	.
W576/B116	-64.3	0.0	40	1.1	-2.2	0.1	-118.5	.
W576/B117	-52.1	0.0	39	0.9	1.7	-1.1	-96.4	.
W576/B125	-2.3	0.0	25	1.0	-1.0	-0.2	-24.0	.
B110/BS21(R)C6)-101-1-1-1-1-1-01-01-01	-1.5	0.0	22	3.9	11.9	0.5	-35.3	.
B129/BA1566	-30.3	0.0	38	3.4	-2.2	-1.1	-77.6	.
B129/BC111	-7.4	0.0	31	5.9	2.6	0.2	-60.0	.
B129/BA 75320	14.2	0.0	9	-0.9	2.7	0.9	34.1	.
LH244/B100	-13.3	0.0	32	1.1	-2.2	0.2	-32.1	.
LH244/B103	-1.7	0.0	23	-0.1	-2.2	-0.3	-3.0	.
LH244/B114	22.3	0.0	4	-0.8	1.8	-0.7	46.0	.
LH244/FR2108	23.0	0.0	3	-1.1	8.7	4.0	50.4	.
TR4006/FR2108	24.9	0.0	2	-1.7	-0.4	2.7	59.2	.
FR3303/FR2108	33.7	0.0	1	-1.7	-2.2	0.6	74.9	.
LH244/LH295	20.7	0.0	7	-1.2	-2.2	-1.1	46.4	.
TR4006/LH295	-5.9	0.0	28	-2.8	0.6	-0.3	11.4	.
FR3303/LH295	5.6	0.0	18	-1.0	-2.2	-0.7	17.6	.
B130/2/FR2108	11.1	0.0	12	-1.8	-2.2	-0.6	34.4	.
TR4006/B116	6.0	0.0	17	-0.9	-1.6	0.2	17.5	.
TR4006/2/B90/B99)-B-021-001-02-02-03-B	21.2	0.0	6	-1.1	-2.2	-0.7	46.3	.
TR4006/2/B97/B99)-B-005-001-02-02-01-B	13.6	0.0	11	-1.7	-0.5	0.9	38.7	.
LH198/LH295	-3.5	0.0	26	-1.3	1.5	-0.2	3.6	.
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH295	1.6	0.0	20	-1.1	-1.6	-1.1	11.8	.
B131/LH244	-15.8	-0.1	35	-0.1	-2.2	-1.1	-27.1	.
B114/LH244	14.4	0.0	8	-0.2	-0.5	-1.1	26.2	.
B97/LH244	-6.8	0.0	30	1.6	-1.1	-0.3	-24.7	.
B97/B99)-B-005-001-02-02-01-B/2/LH244	-4.8	0.0	27	0.8	-2.2	-0.7	-15.3	.
B100/LH244	-15.3	0.0	34	0.8	-2.2	-0.3	-33.1	.
B91/LH244	-13.9	0.0	33	0.1	-0.4	-0.7	-25.6	.
B95/B99)-B-020-001-02-01-02-B/2/LH244	-6.7	0.0	29	0.8	0.7	-0.7	-18.1	.
DK537	0.9	0.0	21	-2.6	0.2	1.5	22.5	.
DKC51-43	10.2	0.0	13	-1.7	-2.2	0.9	32.2	.
DKC52-45	13.7	0.0	10	-2.4	-1.1	-0.4	45.4	.
DKC53-33	9.5	0.0	15	0.3	-2.2	-1.1	13.3	.
SGI912/B125	9.8	0.0	14	0.7	-2.2	-0.3	10.8	.
TR7245/B125	21.3	0.0	5	1.1	-0.5	-0.3	26.3	.
LH198/TR7322	-17.3	0.0	36	0.1	-1.7	-0.7	-31.7	.
Experiment Mean	161.8	28.4	.	20.8	3.2	2.3	245.3	.
Minimum Mean	-64.3	-0.1	.	-2.8	-2.2	-1.1	-118.5	.
Maximum Mean	33.7	0.0	.	5.9	12.2	4.0	74.9	.
BLUP SE	10.5	0.2	.	0.7	2.4	1.1	17.8	.
Genetic Variance	490.8	0.0	.	3.4	17.9	2.4	2104.9	.
Error Variance	245.7	3.6	.	0.9	15.6	4.8	593.0	.
Repeatability	0.8	0.0	.	0.9	0.7	0.5	0.9	.

Table 3. Agronomic data for single crosses grown near Kanawha, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Ear Height
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	in
BA1566/B100	-27.9	0.4	36	2.8	-6.1	.	-68.9	3.5
B109/B114	-3.1	-0.1	25	1.6	-5.0	.	-18.6	1.4
B110/B114	9.1	-0.3	18	0.5	7.4	.	10.6	2.4
B129/B114	11.9	0.7	12	1.6	-7.1	.	7.1	1.7
W576/B116	-78.3	0.2	40	1.3	19.9	.	-144.8	4.2
W576/B117	-46.1	0.9	39	1.7	11.9	.	-92.6	1.3
W576/B125	-36.5	-1.4	37	0.8	12.7	.	-69.9	-1.6
B110/BS21(R)C6)-101-1-1-1-1-1-01-01-01	5.8	-0.7	20	-1.4	-2.1	.	20.2	-1.0
B129/BA1566	-17.2	0.3	34	5.0	-4.9	.	-66.6	4.0
B129/BC111	-38.2	1.3	38	4.5	32.6	.	-96.1	2.4
B129/BA 75320	-13.1	-0.3	33	4.2	3.4	.	-53.9	-1.4
LH244/B100	-1.9	0.7	24	1.3	-7.1	.	-14.6	2.1
LH244/B103	9.8	-0.3	14	0.5	-7.1	.	11.8	0.9
LH244/B114	3.0	-0.4	22	-0.5	-2.7	.	8.0	0.7
LH244/FR2108	33.6	-0.3	2	-2.0	-2.9	.	76.2	-1.2
TR4006/FR2108	20.0	0.9	6	-3.0	16.2	.	59.9	-1.8
FR3303/FR2108	35.1	0.8	1	-2.1	-7.1	.	79.7	-2.3
LH244/LH295	15.6	0.2	8	-0.9	-4.6	.	33.9	0.3
TR4006/LH295	-6.7	0.1	28	-2.1	8.6	.	2.4	-2.4
FR3303/LH295	-6.2	0.6	27	-0.9	1.4	.	-5.2	-3.5
B130/2/FR2108	9.8	-1.0	15	-1.1	-7.1	.	24.9	-2.8
TR4006/B116	-11.3	-0.3	32	-0.3	26.8	.	-19.0	-8.5
TR4006/2/B90/B99)-B-021-001-02-02-03-B	9.7	-0.8	16	-0.7	-4.7	.	21.4	1.2
TR4006/2/B97/B99)-B-005-001-02-02-01-B	23.0	0.6	5	-1.9	1.2	.	55.5	-1.9
LH198/LH295	3.8	-0.7	21	-1.9	-7.1	.	20.6	-0.3
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH295	12.3	-0.8	11	-1.3	-4.7	.	31.1	0.2
B131/LH244	-10.6	0.0	31	-0.7	-5.6	.	-14.4	1.1
B114/LH244	26.1	-0.2	4	-0.2	-2.8	.	47.0	1.0
B97/LH244	-8.8	0.4	30	0.7	5.8	.	-21.7	2.0
B97/B99)-B-005-001-02-02-01-B/2/LH244	-7.5	-0.6	29	0.9	-0.4	.	-21.2	1.3
B100/LH244	-4.4	0.5	26	0.7	-7.1	.	-14.0	-1.0
B91/LH244	11.8	-0.1	13	0.5	-4.1	.	15.2	-0.9
B95/B99)-B-020-001-02-01-02-B/2/LH244	-18.7	-3.1	35	0.9	-5.9	.	-35.3	-1.7
DK537	29.6	0.2	3	-1.9	-7.1	.	68.1	-0.7
DKC51-43	2.9	0.4	23	-2.8	-7.1	.	25.9	-3.6
DKC52-45	13.5	1.2	10	-3.4	-7.1	.	51.1	-1.0
DKC53-33	7.3	0.7	19	-1.8	-5.1	.	26.1	-0.7
SGI912/B125	9.4	-0.3	17	0.7	-4.1	.	9.5	1.0
TR7245/B125	14.0	0.1	9	0.6	-5.0	.	18.3	3.1
LH198/TR7322	19.4	0.3	7	0.1	-6.6	.	32.4	2.5
Experiment Mean	162.9	27.3	.	18.6	12.2	.	266.9	41.7
Minimum Mean	-78.3	-3.1	.	-3.4	-7.1	.	-144.8	-8.5
Maximum Mean	35.1	1.3	.	5.0	32.6	.	79.7	4.2
BLUP SE	11.8	1.1	.	0.7	8.5	.	22.8	2.9
Genetic Variance	639.1	1.7	.	4.2	166.8	.	2895.5	14.1
Error Variance	303.2	6.4	.	0.8	238.5	.	1044.3	38.0
Repeatability	0.8	0.4	.	0.9	0.6	.	0.9	0.4

Table 4. Agronomic data for single crosses grown near Pocahontas, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs
BA1566/B100	-32.1	0.4	40	0.2	.	0.0	-61.2	2.6
B109/B114	17.8	0.4	3	1.1	.	-0.4	25.4	-1.0
B110/B114	16.5	0.4	4	-0.3	.	0.8	32.4	-2.3
B129/B114	27.4	0.4	1	0.4	.	0.1	47.7	-1.1
W576/B116	-13.4	0.4	37	0.3	.	-0.2	-26.8	-2.2
W576/B117	-21.1	0.4	39	1.0	.	1.0	-44.4	-0.8
W576/B125	-9.4	0.4	31	-0.1	.	0.1	-17.3	0.8
B110/BS21(R)C6)-101-1-1-1-1-1-01-01-01	7.4	0.4	12	2.9	.	-0.4	-4.4	-2.5
B129/BA1566	-4.6	0.4	25	2.1	.	0.6	-17.5	0.2
B129/BC111	-7.5	0.4	29	5.4	.	0.3	-37.8	0.9
B129/BA 75320	12.8	0.4	8	4.2	.	0.0	-3.2	0.0
LH244/B100	2.7	0.4	16	1.3	.	-0.4	-3.4	2.7
LH244/B103	0.7	0.4	18	-0.2	.	0.1	2.3	1.5
LH244/B114	12.8	0.4	7	-0.7	.	0.3	28.0	-1.0
LH244/FR2108	26.0	0.4	2	-1.3	.	0.0	57.7	-1.4
TR4006/FR2108	-12.5	0.4	36	-1.1	.	0.0	-17.6	-0.7
FR3303/FR2108	-2.1	0.4	21	-1.1	.	-0.4	2.6	-1.9
LH244/LH295	4.7	0.4	14	-1.1	.	0.1	15.6	0.2
TR4006/LH295	-7.1	0.4	28	-0.9	.	-0.4	-8.3	0.8
FR3303/LH295	-9.6	0.4	32	-1.2	.	0.0	-11.3	-0.3
B130/2/FR2108	-10.5	-1.0	33	-1.2	.	-0.4	-13.2	-1.5
TR4006/B116	1.2	-0.3	17	-0.8	.	-0.4	6.9	1.0
TR4006/2/B90/B99)-B-021-001-02-02-03-B	10.1	-0.3	10	-0.8	.	-0.4	23.9	1.5
TR4006/2/B97/B99)-B-005-001-02-02-01-B	7.6	0.4	11	-1.1	.	-0.4	20.9	0.1
LH198/LH295	-0.9	0.4	20	-1.2	.	-0.4	5.6	-0.3
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH295	-12.0	-7.5	35	-1.0	.	-0.4	-16.8	-1.2
B131/LH244	-2.5	-0.3	22	0.2	.	-0.4	-6.2	2.6
B114/LH244	10.9	-0.8	9	-0.8	.	0.0	25.0	-0.8
B97/LH244	3.6	0.0	15	0.2	.	0.0	5.1	1.0
B97/B99)-B-005-001-02-02-01-B/2/LH244	-6.1	0.4	27	-0.5	.	-0.2	-8.7	-0.1
B100/LH244	-10.9	0.4	34	1.6	.	-0.2	-29.5	3.2
B91/LH244	0.6	0.4	19	0.0	.	0.0	1.0	1.0
B95/B99)-B-020-001-02-01-02-B/2/LH244	-2.6	0.4	23	-0.3	.	-0.2	-3.5	2.0
DK537	-3.4	0.4	24	-1.4	.	-0.4	1.9	-1.5
DKC51-43	-5.7	-1.0	26	-1.3	.	-0.4	-3.5	-1.1
DKC52-45	-8.4	0.4	30	-1.7	.	-0.2	-6.1	-2.4
DKC53-33	-14.8	0.4	38	-1.3	.	-0.2	-20.7	-1.4
SGI912/B125	14.5	0.4	6	-0.1	.	0.0	27.4	1.9
TR7245/B125	5.6	0.4	13	-0.3	.	3.7	11.8	1.7
LH198/TR7322	14.5	-0.5	6	1.0	.	-0.4	20.4	-0.1
Experiment Mean	183.8	31.4	.	14.7	.	1.3	337.0	59.9
Minimum Mean	-32.1	-7.5	.	-1.7	.	-0.4	-61.2	-2.5
Maximum Mean	27.4	0.4	.	5.4	.	3.7	57.7	3.2
BLUP SE	10.3	0.5	.	0.4	.	1.1	0.4	19.1
Genetic Variance	256.4	1.8	.	2.4	.	1.6	923.1	2.4
Error Variance	323.8	0.5	.	0.2	.	8.3	1087.2	0.2
Repeatability	0.6	0.9	.	1.0	.	0.3	0.6	1.0

Table 5. Agronomic data for single crosses grown near Radcliffe, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs
BA1566/B100	2.0	0.2	20	-0.5	0.0	0.0	10.8	0.6
B109/B114	1.0	0.2	21	1.2	0.0	0.0	-8.3	-1.2
B110/B114	-0.5	0.2	24	1.1	0.0	0.0	-9.8	-1.4
B129/B114	19.0	0.2	3	0.4	0.0	0.0	31.3	-0.5
W576/B116	-31.5	0.2	39	1.1	0.0	0.0	-66.0	-1.3
W576/B117	21.1	0.2	2	1.0	0.0	0.0	33.4	-2.0
W576/B125	-17.5	0.2	36	-0.1	0.0	0.0	-31.5	0.1
B110/BS21(R)C6)-101-1-1-1-1-1-01-01	2.9	0.2	19	3.5	0.0	0.0	-23.9	-2.9
B129/BA1566	14.2	0.2	6	3.2	0.0	0.0	-1.6	-2.5
B129/BC111	-12.6	0.2	31	5.0	0.0	0.0	-62.2	-3.5
B129/BA 75320	-8.9	0.2	30	4.0	0.0	0.0	-48.5	-3.0
LH244/B100	3.4	0.2	18	1.0	0.0	0.0	-1.7	-1.0
LH244/B103	0.9	0.2	22	0.4	0.0	0.0	-1.2	-0.3
LH244/B114	7.3	0.2	13	0.7	0.0	0.0	7.4	-0.8
LH244/FR2108	16.9	0.2	4	-0.8	0.0	0.0	37.9	0.5
TR4006/FR2108	8.5	0.2	11	-1.4	0.0	0.0	27.5	1.3
FR3303/FR2108	32.3	0.2	1	-1.6	0.0	0.0	75.4	1.4
LH244/LH295	-0.6	0.2	25	-1.4	0.0	0.0	9.9	1.2
TR4006/LH295	-15.1	0.2	35	-2.0	0.0	0.0	-13.2	1.8
FR3303/LH295	-1.7	0.2	27	-0.5	0.0	0.0	1.2	0.5
B130/2/FR2108	3.9	0.2	17	-1.1	0.0	0.0	16.7	1.0
TR4006/B116	11.5	0.2	8	-0.7	0.0	0.0	27.4	0.7
TR4006/2/B90/B99)-B-021-001-02-02-03-B	14.1	0.2	7	-1.4	0.0	0.0	38.1	1.4
TR4006/2/B97/B99)-B-005-001-02-02-01-B	0.3	0.2	23	-0.9	0.0	0.0	7.4	0.8
LH198/LH295	-14.6	0.2	34	-1.6	0.0	0.0	-15.2	1.4
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH295	-29.4	-4.8	38	-0.9	0.0	0.0	-48.1	0.8
B131/LH244	8.0	0.2	12	0.0	0.0	0.0	14.7	0.0
B114/LH244	10.4	0.2	9	-0.4	0.0	0.0	23.0	0.5
B97/LH244	8.5	0.2	10	0.8	0.0	0.0	9.1	-0.9
B97/B99)-B-005-001-02-02-01-B/2/LH244	5.2	0.2	16	-0.3	0.0	0.0	11.8	0.2
B100/LH244	-32.2	0.2	40	0.8	0.0	0.0	-65.2	-0.7
B91/LH244	-1.2	0.2	26	0.6	0.0	0.0	-7.1	-0.6
B95/B99)-B-020-001-02-01-02-B/2/LH244	-14.1	-0.8	33	0.7	0.0	0.0	-31.8	-0.7
DK537	-3.2	0.2	29	-2.3	0.0	0.0	12.5	2.1
DKC51-43	-14.0	0.2	32	-1.1	0.0	0.0	-17.7	1.0
DKC52-45	-19.9	0.2	37	-2.8	0.0	0.0	-15.8	2.5
DKC53-33	-2.0	0.2	28	-2.8	0.0	0.0	19.1	2.5
SGI912/B125	7.2	0.2	14	-0.3	0.0	0.0	15.5	0.3
TR7245/B125	15.0	0.2	5	-0.6	0.0	0.0	33.1	0.8
LH198/TR7322	5.4	0.2	15	-0.2	0.0	0.0	5.5	-0.1
Experiment Mean	186.0	29.4	.	18.0	0.1	0.6	309.9	57.0
Minimum Mean	-32.2	-4.8	.	-2.8	0.0	0.0	-66.0	-3.5
Maximum Mean	32.3	0.2	.	5.0	0.0	0.0	75.4	2.5
BLUP SE	8.8	0.5	.	0.6	.	.	0.6	15.4
Genetic Variance	280.2	0.9	.	3.2	0.0	0.0	1151.9	2.4
Error Variance	184.8	0.6	.	0.6	0.7	2.9	496.7	0.6
Repeatability	0.8	0.7	.	0.9	0.0	0.0	0.8	0.9

Table 6. Agronomic data for single crosses grown near Nashua, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Ear Height
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	in
BA1566/B100	-16.1	0.8	40	0.7	0.0	7.7	-55.1	0.6
B109/B114	-2.7	0.6	25	1.4	0.0	5.3	-17.2	5.8
B110/B114	-0.1	0.9	21	1.2	0.0	5.5	-8.7	4.7
B129/B114	4.3	-0.4	13	1.3	0.0	0.0	2.0	5.0
W576/B116	-4.0	0.9	27	1.1	0.0	-5.9	-18.6	10.0
W576/B117	-11.5	0.1	38	1.6	0.0	0.3	-41.2	3.2
W576/B125	-6.1	-1.1	29	1.0	0.0	3.8	-23.3	2.6
B110/BS21(R)C6)-101-1-1-1-1-1-01-01	1.6	-0.5	19	-1.5	0.0	2.4	14.7	-1.6
B129/BA1566	-8.2	1.0	33	5.1	0.0	-4.5	-57.3	6.1
B129/BC111	-12.7	0.9	39	4.2	0.0	5.1	-61.3	5.2
B129/BA 75320	-8.6	0.3	34	2.5	0.0	3.3	-39.7	-2.5
LH244/B100	-10.1	0.9	36	1.2	0.0	0.6	-34.9	2.0
LH244/B103	-2.2	-0.7	24	0.1	0.0	1.4	-6.6	-1.3
LH244/B114	-3.5	-0.5	26	-2.2	0.0	7.7	6.2	2.3
LH244/FR2108	12.1	0.6	3	0.9	0.0	6.3	25.7	-2.6
TR4006/FR2108	10.1	0.3	5	-3.7	0.0	1.9	55.6	-4.5
FR3303/FR2108	5.5	0.8	10	-1.9	0.0	6.7	29.3	-4.7
LH244/LH295	6.6	0.3	9	0.1	0.0	-1.2	16.7	-5.5
TR4006/LH295	-6.6	-0.4	31	-2.9	0.0	-1.5	1.9	-1.2
FR3303/LH295	3.7	-0.1	15	-0.3	0.0	-4.3	11.8	-4.2
B130/2/FR2108	-5.0	-1.9	28	-1.4	0.0	-3.9	-4.0	-6.0
TR4006/B116	13.1	0.6	2	-0.4	0.0	0.2	38.0	-0.3
TR4006/2/B90/B99)-B-021-001-02-02-03-B	8.0	-0.7	7	0.6	0.0	-4.9	17.1	0.9
TR4006/2/B97/B99)-B-005-001-02-02-01-B	9.7	0.8	6	-0.7	0.0	-1.8	31.0	-2.3
LH198/LH295	0.9	-0.1	20	-0.9	0.0	-2.7	8.4	-1.3
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH295	-9.0	-4.0	35	-1.2	0.0	0.5	-16.2	-3.1
B131/LH244	3.9	-1.4	14	0.0	0.0	-2.3	10.4	1.5
B114/LH244	1.7	-0.5	17	-0.7	0.0	-1.4	9.9	0.2
B97/LH244	7.6	0.5	8	-0.5	0.0	-1.3	24.1	-1.2
B97/B99)-B-005-001-02-02-01-B/2/LH244	-1.4	-0.1	23	-0.6	0.0	-3.1	0.4	-0.4
B100/LH244	-10.2	0.2	37	1.9	0.0	-2.2	-39.7	3.4
B91/LH244	-0.5	-0.5	22	1.3	0.0	-2.9	-10.8	-2.5
B95/B99)-B-020-001-02-01-02-B/2/LH244	1.7	0.1	18	0.8	0.0	-1.1	-2.0	1.0
DK537	3.4	-1.4	16	-2.4	0.0	-2.3	26.5	-6.5
DKC51-43	4.3	0.5	12	-2.3	0.0	0.4	29.0	-5.1
DKC52-45	11.2	1.0	4	-2.4	0.0	0.0	48.5	-3.2
DKC53-33	-6.1	0.6	30	-1.8	0.0	-2.4	-4.0	-6.0
SGI912/B125	5.1	0.5	11	0.0	0.0	-0.8	13.7	3.8
TR7245/B125	17.9	-0.2	1	-0.5	0.0	-4.2	51.9	7.1
LH198/TR7322	-8.2	1.2	32	1.5	0.0	-4.5	-32.3	0.4
Experiment Mean	155.5	28.4	.	17.6	0.4	12.0	324.5	47.2
Minimum Mean	-16.1	-4.0	.	-3.7	0.0	-5.9	-61.3	-6.5
Maximum Mean	17.9	1.2	.	5.1	0.0	7.7	55.6	10.0
BLUP SE	7.3	0.9	.	0.9	.	3.0	2.5	19.9
Genetic Variance	115.5	1.7	.	4.0	0.0	22.1	1258.6	22.1
Error Variance	178.4	2.4	.	1.6	3.0	27.1	1020.2	15.6
Repeatability	0.6	0.6	.	0.8	0.0	0.6	0.7	0.7

Table 7. Agronomic data for single crosses grown near Cannon Falls, Minnesota* in 2005

Pedigree	Grain	Plants	Yield	Grain	Lodging		Adjusted	Test
	yield	per ha	rank	Moisture	root	stalk	Value	Weight
Back to Table 1	q/ha	x 1000		%	%	%	\$	lbs
BA1566/B100	0.0	0.0	35.0	3.8		-1.8	0.0	0.0
B109/B114	0.0	0.0	33.0	1.7		-1.8	0.0	0.0
B110/B114	0.0	0.0	24.0	-1.9		4.0	0.0	0.0
B129/B114	0.0	0.0	32.0	1.7		-1.8	0.0	0.0
W576/B116	0.0	0.0	40.0	5.7		-1.8	0.0	0.0
W576/B117	0.0	0.0	39.0	5.2		-1.8	0.0	0.0
W576/B125	0.0	0.0	27.0	1.7		4.0	0.0	0.0
B110/BS21(R)C6)-101-1-1-1-1-1-01-01-01	0.0	0.0	38.0	5.5		11.0	0.0	0.0
B129/BA1566	0.0	0.0	36.0	6.8		-1.8	0.0	0.0
B129/BC111	0.0	0.0	37.0	4.7		-1.8	0.0	0.0
B129/BA 75320	0.0	0.0	34.0	6.0		-1.8	0.0	0.0
LH244/B100	0.0	0.0	23.0	1.5		-1.8	0.0	0.0
LH244/B103	0.0	0.0	28.0	1.2		2.9	0.0	0.0
LH244/B114	0.0	0.0	12.0	-0.2		5.2	0.0	0.0
LH244/FR2108	0.0	0.0	3.0	-2.0		-1.8	0.0	0.0
TR4006/FR2108	0.0	0.0	1.0	-2.4		5.2	0.0	0.0
FR3303/FR2108	0.0	0.0	7.0	0.2		-1.8	0.0	0.0
LH244/LH295	0.0	0.0	10.0	-0.9		-1.8	0.0	0.0
TR4006/LH295	0.0	0.0	21.0	-6.2		4.0	0.0	0.0
FR3303/LH295	0.0	0.0	18.0	-0.4		-1.8	0.0	0.0
B130/2/FR2108	0.0	0.0	26.0	-0.5		3.6	0.0	0.0
TR4006/B116	0.0	0.0	8.0	0.1		-1.8	0.0	0.0
TR4006/2/B90/B99)-B-021-001-02-02-03-B	0.0	0.0	19.0	-3.1		6.7	0.0	0.0
TR4006/2/B97/B99)-B-005-001-02-02-01-B	0.0	0.0	14.0	-4.4		-1.8	0.0	0.0
LH198/LH295	0.0	0.0	2.0	-5.9		-1.8	0.0	0.0
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH295	0.0	0.0	30.0	-3.0		-1.8	0.0	0.0
B131/LH244	0.0	0.0	11.0	-1.5		-1.8	0.0	0.0
B114/LH244	0.0	0.0	29.0	-0.4		7.5	0.0	0.0
B97/LH244	0.0	0.0	9.0	0.8		-1.8	0.0	0.0
B97/B99)-B-005-001-02-02-01-B/2/LH244	0.0	0.0	16.0	-0.5		-1.8	0.0	0.0
B100/LH244	0.0	0.0	31.0	2.5		-1.8	0.0	0.0
B91/LH244	0.0	0.0	20.0	2.1		-1.8	0.0	0.0
B95/B99)-B-020-001-02-01-02-B/2/LH244	0.0	0.0	17.0	-1.8		-1.8	0.0	0.0
DK537	0.0	0.0	4.0	-5.7		-1.8	0.0	0.0
DKC51-43	0.0	0.0	15.0	-5.2		-1.8	0.0	0.0
DKC52-45	0.0	0.0	5.0	-3.9		-1.8	0.0	0.0
DKC53-33	0.0	0.0	13.0	-5.1		-1.8	0.0	0.0
SGI912/B125	0.0	0.0	6.0	-1.6		-1.8	0.0	0.0
TR7245/B125	0.0	0.0	22.0	0.8		-1.8	0.0	0.0
LH198/TR7322	0.0	0.0	25.0	4.4		-1.8	0.0	0.0
Experiment Mean	208.7	29.9		31.9		1.9	211.2	58.5
Minimum Mean	0.0	0.0		-6.2		-1.8	0.0	0.0
Maximum Mean	0.0	0.0		6.8		11.0	0.0	0.0
BLUP SE	0.0			1.1		1.1		
Genetic Variance	0.0	0.0		13.3		12.2	0.0	0.0
Error Variance	1314.0	2.7		0.9		0.9	5303.4	2.5
Repeatability	0.0	0.0		1.0		1.0	0.0	0.0

*One replication of experiment discarded due to water damage.

Table 8. Agronomic data for single crosses grown near Ringsted, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs
BA1566/B100	-29.6	0.0	37	1.4	0.0	.	-60.8	-0.8
B109/B114	-2.9	0.0	23	0.5	0.0	.	-9.9	-0.4
B110/B114	3.0	0.0	20	0.1	0.0	.	3.7	-0.1
B129/B114	-6.2	0.0	27	1.0	0.0	.	-19.6	-0.8
W576/B116	-48.9	0.0	40	0.0	0.0	.	-82.9	-0.2
W576/B117	-48.2	0.0	39	0.6	0.0	.	-85.5	-0.2
W576/B125	-34.9	0.0	38	-0.2	0.0	.	-57.9	0.1
B110/BS21(R)C6)-101-1-1-1-1-1-01-01	-6.3	0.0	28	5.2	0.0	.	-52.7	-3.2
B129/BA1566	-15.0	0.0	35	4.5	0.0	.	-59.4	-2.7
B129/BC111	-3.5	0.0	24	5.1	0.0	.	-48.2	-3.1
B129/BA 75320	-14.2	0.0	34	4.2	0.0	.	-55.2	-2.6
LH244/B100	-5.3	0.0	25	2.4	0.0	.	-29.3	-1.3
LH244/B103	10.9	0.0	14	-0.1	0.0	.	18.8	-0.1
LH244/B114	8.7	0.0	16	-0.6	0.0	.	19.1	0.3
LH244/FR2108	19.3	0.0	7	-2.0	0.0	.	49.7	1.1
TR4006/FR2108	19.6	0.0	5	-2.8	0.0	.	57.5	1.6
FR3303/FR2108	33.8	0.0	1	-2.6	0.0	.	80.8	1.3
LH244/LH295	13.1	0.0	11	-0.5	0.0	.	25.7	0.1
TR4006/LH295	15.7	0.0	10	-2.6	0.0	.	48.9	1.7
FR3303/LH295	3.5	0.0	19	-0.9	0.0	.	12.6	0.6
B130/2/FR2108	11.6	0.0	13	-0.9	0.0	.	26.7	0.4
TR4006/B116	23.3	0.0	3	-1.4	0.0	.	51.1	0.9
TR4006/2/B90/B99)-B-021-001-02-02-03-B	12.4	0.0	12	-1.9	0.0	.	36.6	1.2
TR4006/2/B97/B99)-B-005-001-02-02-01-B	-10.8	0.0	32	0.8	0.0	.	-25.6	0.3
LH198/LH295	10.2	0.0	15	-2.9	0.0	.	42.0	1.8
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH295	-2.5	0.0	22	-1.5	0.0	.	7.6	0.7
B131/LH244	4.4	0.0	17	-0.1	0.0	.	7.3	0.1
B114/LH244	-2.3	0.0	21	-0.6	0.0	.	-0.1	0.3
B97/LH244	-5.8	0.0	26	2.1	0.0	.	-27.6	-1.2
B97/B99)-B-005-001-02-02-01-B/2/LH244	19.5	0.0	6	-0.5	0.0	.	36.2	0.1
B100/LH244	-8.9	0.0	30	1.6	0.0	.	-28.3	-0.8
B91/LH244	-17.9	0.0	36	1.0	0.0	.	-38.5	-0.7
B95/B99)-B-020-001-02-01-02-B/2/LH244	-8.7	0.0	29	0.6	0.0	.	-20.0	-0.3
DK537	-12.5	0.0	33	-0.6	0.0	.	-17.7	1.0
DKC51-43	24.4	0.0	2	-3.1	0.0	.	69.0	1.7
DKC52-45	4.1	0.0	18	-3.8	0.0	.	37.9	2.2
DKC53-33	18.5	0.0	9	-2.0	0.0	.	48.1	1.0
SGI912/B125	20.5	0.0	4	0.5	0.0	.	29.0	-0.3
TR7245/B125	18.7	0.0	8	-0.5	0.0	.	34.9	0.4
LH198/TR7322	-10.6	0.0	31	0.7	0.0	.	-24.2	-0.4
Experiment Mean	169.6	27.6	.	20.2	0.2	.	263.8	56.3
Minimum Mean	-48.9	0.0	.	-3.8	0.0	.	-85.5	-3.2
Maximum Mean	33.8	0.0	.	5.2	0.0	.	80.8	2.2
BLUP SE	7.5	.	.	0.5	.	.	0.4	14.4
Genetic Variance	402.3	0.0	.	4.8	0.0	.	2055.9	1.8
Error Variance	98.0	0.6	.	0.3	0.5	.	318.3	0.2
Repeatability	0.9	0.0	.	1.0	0.0	.	0.9	1.0

Table 9. Agronomic data for single crosses grown near Lester, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs
BA1566/B100	-83.1	.	39	1.0	-0.6	-0.1	-139.3	-1.6
B109/B114	31.6	.	9	1.0	-0.6	0.0	39.3	-0.3
B110/B114	33.6	.	7	1.2	8.9	0.1	40.8	-2.8
B129/B114	33.7	.	6	1.2	-0.6	0.0	40.6	0.5
W576/B116	-60.3	.	37	2.6	-0.6	0.1	-113.5	-3.6
W576/B117	-52.3	.	35	0.1	-0.6	-0.1	-85.8	-1.4
W576/B125	-53.9	.	36	0.9	-0.6	0.0	-92.9	-0.3
B110/BS21(R)C6)-101-1-1-1-1-1-01-01-01	14.4	.	18	4.6	9.9	-0.1	-20.7	-1.9
B129/BA1566	-101.0	.	40	2.5	-0.1	-0.1	-173.6	-1.4
B129/BC111	-31.7	.	33	2.4	-0.6	0.0	-69.7	-1.3
B129/BA 75320	-2.0	.	25	4.3	-0.6	-0.1	-42.4	-2.5
LH244/B100	-7.5	.	27	1.1	0.4	-0.1	-22.1	1.0
LH244/B103	41.0	.	3	-0.7	-0.6	0.0	72.7	1.4
LH244/B114	45.5	.	2	-0.6	0.4	0.0	77.8	-1.0
LH244/FR2108	36.1	.	5	-1.6	-0.6	0.0	72.9	0.2
TR4006/FR2108	22.8	.	13	-3.0	-0.6	-0.1	63.8	0.5
FR3303/FR2108	29.1	.	11	-0.8	-0.6	0.0	53.3	0.7
LH244/LH295	14.1	.	19	-1.4	-0.6	0.0	34.7	-0.7
TR4006/LH295	17.6	.	17	-2.7	-0.6	-0.1	53.0	1.3
FR3303/LH295	9.8	.	20	-0.3	-0.6	-0.1	17.2	0.7
B130/2/FR2108	18.5	.	16	-1.1	-0.6	-0.1	38.7	0.0
TR4006/B116	9.1	.	21	0.5	-0.6	0.0	9.3	0.8
TR4006/2/B90/B99)-B-021-001-02-02-03-B	3.3	.	23	-0.7	-0.1	-0.1	10.5	1.9
TR4006/2/B97/B99)-B-005-001-02-02-01-B	7.6	.	22	-1.4	-0.6	0.2	23.6	1.4
LH198/LH295	-11.1	.	28	-1.3	-0.1	-0.1	-7.6	1.7
BSKRL1(HD)C1-054-1-02-01-02-01-B/LH295	18.9	.	15	-0.7	-0.6	0.0	36.1	-0.6
B131/LH244	-67.8	.	38	0.1	-0.6	0.3	-110.4	-0.2
B114/LH244	36.7	.	4	-0.3	-0.1	0.0	61.4	-0.6
B97/LH244	-21.6	.	31	0.9	-0.1	0.1	-42.6	-0.1
B97/B99)-B-005-001-02-02-01-B/2/LH244	-4.1	.	26	0.2	-0.6	0.1	-9.6	-0.6
B100/LH244	-48.0	.	34	-0.7	-0.6	0.0	-72.7	1.0
B91/LH244	-12.9	.	29	1.3	-0.6	0.1	-32.4	0.6
B95/B99)-B-020-001-02-01-02-B/2/LH244	-26.8	.	32	-0.9	-0.6	-0.1	-37.3	0.6
DK537	2.5	.	24	-1.5	-0.6	-0.1	15.9	1.2
DKC51-43	26.5	.	12	-2.6	-0.1	-0.1	67.2	0.8
DKC52-45	30.4	.	10	-3.1	-0.6	-0.1	78.9	0.7
DKC53-33	20.7	.	14	-1.3	-0.6	-0.1	44.0	0.4
SGI912/B125	61.4	.	1	-0.4	-0.6	-0.1	102.5	1.4
TR7245/B125	32.5	.	8	0.3	-0.6	-0.1	48.3	2.3
LH198/TR7322	-13.2	.	30	0.9	-0.6	-0.1	-29.7	-0.1
Experiment Mean	156.8	.	.	21.2	0.8	0.5	235.0	55.0
Minimum Mean	-101.0	.	.	-3.1	-0.6	-0.1	-173.6	-3.6
Maximum Mean	61.4	.	.	4.6	9.9	0.3	102.5	2.3
BLUP SE	13.7	.	.	0.7	1.3	0.2	0.6	22.7
Genetic Variance	1577.8	.	.	3.5	6.4	0.1	4881.0	2.1
Error Variance	321.4	.	.	1.0	4.0	0.9	845.2	0.8
Repeatability	0.9	.	.	0.9	0.8	0.1	0.9	0.8

Table 10. Agronomic data for single crosses grown in Experiment 1.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight	Ear Height
					Root	Stalk			
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs	in
DKC52-45	9.2	0.8	14	-3.1	-0.4	-0.2	40.4	0.4	-2.5
TR4006/LH295	-1.9	0.2	27	-2.8	0.4	-0.1	19.1	0.8	-2.7
DKC51-43	7.6	0.2	15	-2.6	-0.4	-0.1	34.0	-0.1	-5.7
TR4006/FR2108	17.3	0.4	5	-2.6	0.7	0.6	49.5	0.6	-3.8
DK537	6.5	-0.1	17	-2.4	-0.3	-0.2	30.6	0.3	-3.9
LH198/LH295	2.0	-0.3	21	-2.1	-0.3	-0.4	19.6	0.7	-0.9
DKC53-33	5.2	0.5	18	-2.0	-0.4	-0.5	23.9	0.2	-3.7
FR3303/FR2108	26.3	0.5	2	-1.6	-0.4	0.4	58.1	0.2	-4.4
TR4006/2/B97/B99)-B-005-001-02-02-01-B	10.1	0.5	12	-1.6	0.0	-0.1	30.4	0.5	-2.9
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH295	-6.3	-2.5	31	-1.4	-0.3	-0.2	-0.2	-0.2	-1.2
LH244/FR2108	28.4	0.0	1	-1.3	0.2	0.8	59.8	0.0	-2.3
B130/2/FR2108	3.8	-1.1	19	-1.3	-0.4	-0.4	16.0	0.0	-5.4
TR4006/2/B90/B99)-B-021-001-02-02-03-B	13.2	-1.1	7	-1.1	-0.3	-0.3	32.0	1.2	1.5
LH244/LH295	13.1	0.3	8	-1.0	-0.3	-0.2	29.4	0.1	-2.6
FR3303/LH295	1.6	0.2	23	-0.7	-0.1	-0.4	7.0	0.2	-5.2
LH244/B114	15.5	0.0	6	-0.7	-0.1	0.8	30.6	-0.6	1.8
TR4006/B116	10.6	-0.1	11	-0.5	1.1	0.0	21.1	0.8	-7.6
B114/LH244	12.4	-0.2	10	-0.5	-0.2	0.0	26.1	-0.1	1.0
B131/LH244	-7.8	-0.5	32	-0.2	-0.4	-0.3	-12.6	0.6	1.4
B97/B99)-B-005-001-02-02-01-B/2/LH244	1.1	-0.1	24	0.0	-0.1	-0.4	0.8	0.0	0.9
SGI912/B125	21.1	0.0	3	0.0	-0.3	-0.1	34.8	0.6	2.8
LH244/B103	6.7	-0.4	16	0.1	-0.4	0.3	10.3	0.6	0.2
TR7245/B125	18.6	0.1	4	0.1	-0.3	0.2	30.7	0.8	6.3
B95/B99)-B-020-001-02-01-02-B/2/LH244	-8.9	-0.9	33	0.2	-0.2	-0.3	-17.1	0.4	-0.9
B110/B114	9.2	0.2	13	0.4	0.8	0.9	12.5	-1.4	4.5
W576/B125	-23.8	-0.6	36	0.6	0.5	0.6	-47.4	0.0	-0.1
B97/LH244	0.4	0.3	25	0.8	0.2	-0.2	-7.7	-0.1	1.2
B91/LH244	-3.7	-0.1	28	0.8	-0.2	-0.3	-14.4	0.3	-2.0
B129/B114	13.1	0.4	9	0.9	-0.4	0.0	15.5	-0.4	4.0
LH198/TR7322	1.6	0.4	22	1.0	-0.4	-0.6	-5.3	-0.2	2.4
B100/LH244	-20.9	0.3	35	1.1	-0.4	-0.3	-45.1	0.7	0.8
B109/B114	3.7	0.3	20	1.2	0.2	0.4	-3.6	-0.7	4.1
BA1566/B100	-38.0	0.4	38	1.3	-0.4	0.5	-75.3	0.3	3.4
LH244/B100	-4.7	0.5	29	1.4	-0.4	-0.1	-20.4	0.5	2.9
W576/B116	-52.4	0.4	40	1.6	0.8	-0.6	-95.3	-1.3	8.7
W576/B117	-38.9	0.4	39	1.7	0.6	0.0	-76.0	-1.0	2.7
B110/BS21(R)C6)-101-1-1-1-1-1-01-01-01	-0.7	-0.1	26	3.1	0.9	0.5	-25.6	-1.5	-1.7
B129/BA 75320	-4.9	0.3	30	3.8	0.2	0.3	-38.8	-1.2	-2.5
B129/BA1566	-27.8	-0.1	37	4.2	-0.3	-0.5	-78.1	-0.8	6.6
B129/BC111	-17.5	0.6	34	5.1	1.5	0.6	-69.3	-1.2	4.7
Experiment Mean	173.0	28.9	.	20.4	2.8	3.1	265.9	57.3	29.9
Minimum Mean	-52.4	-2.5	.	-3.1	-0.4	-0.6	-95.3	-1.5	-7.6
Maximum Mean	28.4	0.8	.	5.1	1.5	0.9	59.8	1.2	8.7
BLUP SE	7.0	0.4	.	0.5	1.2	0.7	12.8	0.5	2.3

Table 10. Agronomic data for single crosses grown in Experiment 1.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight	Ear Height
					Root	Stalk			
Back to Table 1	bu/ac	x 1000	.	%	%	%	\$	lbs	in
Genetic Variance	351.7	0.5	.	3.8	1.6	0.6	1696.9	0.7	18.7
Genetic Variance Upper Limit	625.7	1.0	.	6.4	6686.1	10.4	2928.5	1.6	38.1
Genetic Variance Lower Limit	225.1	0.3	.	2.5	0.3	0.2	1106.6	0.4	11.1
G X E Variance	225.3	0.4	.	0.7	30.2	4.5	620.8	1.4	0.0
G X E Variance Upper Limit	311.7	1.0	.	1.1	45.3	7.6	885.5	1.9	.
G X E Variance Lower Limit	170.4	0.2	.	0.5	21.6	3.0	459.5	1.1	.
Error Variance	258.0	2.0	.	0.9	43.7	8.8	813.1	0.4	25.6
Error Variance Upper Limit	309.0	2.4	.	1.1	52.9	10.8	975.6	0.5	33.5
Error Variance Lower Limit	218.6	1.7	.	0.8	36.8	7.3	688.1	0.3	20.2
Number of environments	8.0	8.0	.	8.0	6.0	6.0	8.0	5.0	3.0
Number of replications	1.9	1.9	.	1.9	2.0	1.8	1.9	1.8	2.0
Repeatability	0.9	0.7	.	1.0	0.2	0.3	0.9	0.7	0.8

Table 11. Agronomic data for single crosses grown near Ames, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Ear Height
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	in
B104/B116	-1.7	-0.3	49	1.0	1.2	-1.4	-10.5	0
B110/B116	2.6	0.0	30	1.6	7.6	0.5	-6.1	0
B119/B116	-0.7	0.0	46	-0.1	4.4	1.7	-1.1	6
B127/B116	-13.7	-0.3	78	-0.2	-1.6	-1.1	-25.5	3
B129/B116	7.4	0.0	14	0.3	-2.1	-1.1	12.4	-2
BS13(S)C8)-7312-1-1-2-01-01-01/B116	9.2	-0.1	11	1.5	2.1	-1.1	6.8	0
BS31(R)C0-246-1-01-01-01-01-B-B/B116	-5.7	0.1	61	-0.3	-2.1	0.5	-9.0	2
NC432/B116	7.2	-0.1	15	0.4	-1.4	-0.7	11.5	3
SGI912/B116	11.1	-0.2	6	-0.1	2.5	7.1	22.9	3
TR7245/B116	3.8	-0.3	19	-0.5	-0.5	-1.5	10.9	2
FR3303/B116	2.5	0.1	31	1.2	-1.9	-0.7	-3.6	0
BS13(S)C7)-175-2-1-1-2-1-01-01-01/B116	0.9	0.3	38	-0.8	4.3	0.0	7.4	2
B104/B117	-9.3	-0.2	71	1.0	-0.8	-1.9	-25.2	1
B110/B117	2.1	0.3	33	1.2	-1.4	-1.5	-4.2	2
B119/B117	3.6	0.2	23	-0.1	1.7	0.4	6.8	7
B127/B117	4.0	0.3	18	-0.7	-2.1	-1.1	13.2	6
B129/B117	3.1	0.0	25	0.0	-2.1	-1.1	5.9	-1
SGI912/B117	5.8	0.3	16	-0.8	-2.1	-0.4	17.2	-1
SGI890/B117	18.4	0.1	1	0.3	-2.1	-1.9	34.4	4
TR7245/B117	-1.0	0.1	47	-1.6	-1.1	-0.3	9.4	3
B104/B118	-2.3	0.1	52	1.2	6.5	-1.9	-13.1	0
B110/B118	2.1	0.3	32	0.8	-1.1	-0.8	-1.9	3
B119/B118	9.4	0.3	10	-0.2	0.4	0.4	20.0	5
B127/B118	0.0	-0.3	40	-0.3	2.0	-1.5	2.1	2
B129/B118	-4.6	0.0	57	0.7	-2.1	0.1	-13.8	-1
N196/B118	3.0	-0.1	26	-0.2	-1.3	-1.9	7.7	3
SGI912/B118	14.4	0.0	2	-0.6	-1.3	-0.7	33.1	-1
SGI890/B118	10.4	0.3	8	-0.1	-2.1	-1.9	21.5	6
FR3303/B118	-2.1	0.0	51	0.2	-2.1	1.6	-5.2	-3
B104/B120	-1.9	0.1	50	1.6	-1.6	-1.9	-14.9	0
B119/B120	1.8	0.1	35	2.1	0.7	5.9	-11.9	6
SGI912/B120	2.8	-0.1	28	0.9	-1.6	-0.7	-1.0	0
SGI890/B120	3.7	0.1	21	1.8	-2.1	-1.1	-5.4	3
TR7245/B120	7.5	-0.1	13	0.5	-1.6	-1.1	10.9	6
TR7245/B122	2.8	0.0	29	-1.4	-2.1	-1.5	15.8	-1
SGI890/B122	1.3	0.2	37	-0.5	0.4	-1.2	6.3	0
B127/B125	-14.1	-0.1	79	-0.7	-2.1	-0.3	-23.4	2
SGI912/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	1.9	-0.2	34	-0.1	0.1	1.4	3.9	0
B104/B97	-5.1	0.1	59	1.1	-0.3	0.5	-17.6	0
B110/B97	-6.3	0.1	65	1.1	4.2	2.3	-19.9	0
N196/B97	-6.2	0.1	64	-0.3	-1.4	-1.1	-10.2	1
SGI890/B97	10.2	-0.2	9	0.9	3.0	-1.1	13.6	4
SGI912/B97	12.7	-0.2	5	-0.9	-2.1	-1.9	32.0	0
B119/B97	3.6	-0.3	22	0.6	11.8	6.7	2.9	2
SGI912/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	5.0	0.2	17	-0.3	1.1	-0.4	11.9	1

Table 11. Agronomic data for single crosses grown near Ames, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Ear Height
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	in
TR7245/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	10.5	0.4	7	-0.3	-2.1	-1.2	23.2	4
B110/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	-4.3	-0.1	56	1.7	0.0	7.0	-20.0	3
SGI912/BS32(R)C0-249-1-02-01-01-01-B-B	-8.0	-0.2	70	1.3	-1.6	0.6	-24.3	-4
SGI912/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	-7.8	-0.3	68	-0.9	-0.2	-1.9	-9.2	-4
TR7245/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	-5.3	0.1	60	-1.0	-0.9	-1.5	-3.6	-1
B110/B131	-5.0	0.2	58	0.8	1.7	0.8	-15.3	-2
SGI912/B131	-6.4	-0.3	66	-0.7	1.9	-1.1	-7.6	-4
TR7245/B131	-9.4	0.1	72	-1.2	0.0	0.5	-10.6	-2
B131/LH198	-7.9	-0.2	69	-2.1	-2.1	-1.9	-1.7	-2
FR3303/B131	-7.7	0.0	67	-0.3	-1.9	-0.7	-13.3	-7
B119/BSKRL2(H1)C1-183-001-02-01-01-01-B	-9.7	0.1	74	-0.2	2.1	13.9	-17.8	2
SGI912/BSKRL2(H1)C1-280-001-01-03-01-01-B	-3.4	0.2	53	-0.6	2.8	-1.1	-2.6	-3
B73/Mo17	-9.4	0.0	73	0.1	-1.9	-0.7	-19.1	3
LH244/LH295	-10.8	0.0	76	-1.4	3.4	-1.5	-12.3	-6
DK57-01	-3.9	0.2	55	-3.0	-0.5	0.0	12.9	-7
TR7245/TR7322	13.3	-0.3	3	-0.9	5.1	-0.6	33.0	-2
DKC53-33	-12.6	0.6	77	-3.0	-2.1	-0.8	-5.2	-8
RX715	-0.3	0.2	43	-0.7	-0.6	1.2	4.3	-5
DKC58-78	1.3	0.1	36	-2.4	-2.1	-1.5	19.4	-5
B119/LH185	-10.7	-0.5	75	-0.3	-0.4	7.0	-19.0	-3
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH283	13.3	0.0	4	-0.2	-1.1	-1.1	28.3	-1
B110/NC386	-16.4	0.4	80	4.2	-1.6	4.0	-55.4	-1
SGI912/BS26(S-H)C4)-207-1-1-1-1-01-01-01	-1.4	-0.1	48	1.6	1.4	-0.7	-13.6	0
SGI912/BS26(S-H)C4)-255-1-1-1-1-01-01-01	-0.5	-0.6	45	1.7	0.0	-1.9	-13.2	0
SGI912/BSKRL2(H1)C1-183-001-02-01-01-01-B	-5.8	-0.3	62	-1.6	2.9	-0.6	-0.3	-3
SGI912/TR7322	-0.2	-0.2	41	-0.2	-1.9	-1.9	0.7	-4
BS13(HI)C2)-6330:02-1-01-01-01/TR7322	-6.2	0.0	63	-0.5	-1.3	0.1	-8.6	-2
BS13(HI)C2)-6330:02-1-01-01-02/TR7322	3.4	0.1	24	0.6	-0.5	3.8	2.7	-6
B104/TR7322	-3.6	-0.3	54	0.7	-1.1	-1.5	-11.9	-1
B110/TR7322	3.8	0.2	20	2.1	-1.6	-1.9	-8.1	2
B127/TR7322	-0.3	0.1	42	-1.6	-1.3	-1.1	10.7	0
B119/TR7322	0.7	0.1	39	-1.2	-0.3	-1.5	6.7	2
BS13(S)C8)-7312-1-1-2-01-01-01/TR7322	9.0	-0.2	12	0.3	0.2	-1.0	15.0	-2
BS31(R)C0-246-1-01-01-01-01-B-B/TR7322	2.9	0.0	27	-0.8	-1.3	-1.9	11.8	-5
BS13(S)C8)-7146-1-3-1-01-02-01/TR7322	-0.4	0.1	44	-1.1	-0.6	-1.9	7.3	-1
Experiment Mean	192.5	28.8	.	18.2	6.8	4.0	318.5	54
Minimum Mean	-16.4	-0.6	.	-3.0	-2.1	-1.9	-55.4	-8
Maximum Mean	18.4	0.6	.	4.2	11.8	13.9	34.4	7
BLUP SE	6.5	0.5	.	0.4	3.8	2.8	11.7	2.0
Genetic Variance	94.8	0.3	.	1.6	21.1	15.1	394.5	14.9
Error Variance	142.8	2.3	.	0.4	92.3	33.6	393.9	10.4
Repeatability	0.57	0.18	.	0.90	0.31	0.47	0.67	0.74

Table 12. Agronomic data for single crosses grown near Ankeny, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Ear Height
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	in
B104/B116	-4.7	-0.9	58	1.0	0.0	-5.8	-9.9	-1
B110/B116	-3.9	-0.2	53	0.9	0.0	-3.5	-8.0	1
B119/B116	12.3	0.7	5	0.4	0.0	3.5	16.4	1
B127/B116	-11.0	-0.5	74	-1.3	0.0	1.5	-12.1	2
B129/B116	-6.7	-0.7	65	-0.4	0.0	9.4	-8.3	-2
BS13(S)C8)-7312-1-1-2-01-01-01/B116	-10.0	0.4	71	0.5	0.0	-3.8	-15.7	1
BS31(R)C0-246-1-01-01-01-01-B-B/B116	-5.3	-0.2	60	-0.4	0.0	5.8	-6.1	1
NC432/B116	-2.5	0.4	46	-0.4	0.0	7.2	-1.9	4
SGI912/B116	-2.4	-0.1	45	-0.5	0.0	-4.5	-1.7	-1
TR7245/B116	-4.1	0.0	55	-0.7	0.0	7.1	-3.5	-1
FR3303/B116	7.2	0.0	15	0.4	0.0	-5.6	9.0	-3
BS13(S)C7)-175-2-1-1-2-1-01-01-01/B116	-7.2	0.7	66	-1.0	0.0	-1.2	-7.2	-1
B104/B117	-0.5	-0.1	40	1.0	0.0	-4.9	-4.1	-1
B110/B117	13.1	0.6	4	2.1	0.0	-7.2	10.7	3
B119/B117	-2.2	0.4	44	-0.2	0.0	6.8	-2.4	6
B127/B117	1.8	-0.2	36	-0.4	0.0	5.4	4.3	2
B129/B117	0.4	-0.6	38	0.6	0.0	-1.6	-1.4	0
SGI912/B117	6.7	-0.1	18	0.1	0.0	-5.0	9.4	-1
SGI890/B117	4.5	-0.2	27	2.0	0.0	-6.6	-0.4	5
TR7245/B117	14.6	0.3	3	-0.9	0.0	-4.5	24.8	1
B104/B118	-3.4	-0.2	48	0.3	0.0	-7.7	-5.9	1
B110/B118	-0.8	-0.1	42	0.6	0.0	3.6	-3.1	1
B119/B118	-4.0	0.3	54	-0.2	0.0	10.9	-5.2	6
B127/B118	-7.8	-0.4	68	0.1	0.0	3.7	-11.6	3
B129/B118	-6.3	0.1	63	0.8	0.0	1.0	-11.6	1
N196/B118	15.4	-0.3	2	0.6	0.0	2.3	20.1	1
SGI912/B118	6.8	0.1	16	0.2	0.0	-2.7	9.4	1
SGI890/B118	11.3	0.3	6	0.4	0.0	-6.6	15.2	2
FR3303/B118	-6.5	-0.3	64	0.1	0.0	-4.0	-9.7	-4
B104/B120	-5.8	-0.4	61	1.0	0.0	-2.9	-11.5	1
B119/B120	-3.6	0.4	50	0.9	0.0	4.9	-8.0	3
SGI912/B120	15.7	0.2	1	-0.5	0.0	-5.2	24.9	5
SGI890/B120	9.2	0.2	8	1.5	0.0	-7.2	7.8	0
TR7245/B120	6.2	0.4	20	-0.2	0.0	-5.3	9.9	-1
TR7245/B122	-10.9	-0.2	73	-0.8	0.0	4.4	-13.3	-2
SGI890/B122	1.9	-0.8	35	-0.1	0.0	-2.1	3.2	-2
B127/B125	-11.2	0.1	75	-0.6	0.0	1.0	-14.2	3
SGI912/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	8.4	-0.7	10	-0.1	0.0	8.8	12.5	0
B104/B97	-8.3	0.1	70	-1.2	0.0	-1.7	-11.7	0
B110/B97	-13.0	0.2	79	1.4	0.0	4.8	-22.5	5
N196/B97	-3.5	0.3	49	0.3	0.0	5.6	-5.8	3
SGI890/B97	3.9	-0.3	29	1.6	0.0	-6.5	0.3	4
SGI912/B97	7.4	-0.4	13	-0.8	0.0	-2.1	13.9	3
B119/B97	10.6	-0.2	7	-0.2	0.0	0.9	16.4	4
SGI912/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	6.6	0.2	19	0.6	0.0	-5.7	7.5	2

Table 12. Agronomic data for single crosses grown near Ankeny, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Ear Height
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	in
TR7245/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	6.7	0.7	17	0.7	0.0	-8.2	7.2	0
B110/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	-4.5	0.4	57	2.0	0.0	17.3	-13.0	4
SGI912/BS32(R)C0-249-1-02-01-01-01-B-B	-7.6	0.0	67	0.7	0.0	-2.5	-13.3	-1
SGI912/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	8.8	0.8	9	0.3	0.0	-5.4	11.6	-4
TR7245/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	4.8	0.6	25	-1.1	0.0	3.5	11.1	-3
B110/B131	-3.8	0.2	52	0.5	0.0	6.2	-6.7	2
SGI912/B131	5.3	0.3	23	-0.6	0.0	-4.2	9.8	0
TR7245/B131	-12.4	0.0	77	-1.3	0.0	22.5	-14.3	-4
B131/LH198	-8.2	-1.4	69	-1.1	0.0	1.0	-8.3	1
FR3303/B131	-13.2	-0.7	80	-0.8	0.0	1.4	-16.8	-4
B119/BSKRL2(H1)C1-183-001-02-01-01-01-B	-10.0	0.4	72	-1.3	0.0	13.6	-10.3	4
SGI912/BSKRL2(H1)C1-280-001-01-03-01-01-B	3.4	0.6	32	-0.5	0.0	-5.8	6.8	-1
B73/Mo17	2.2	0.4	34	0.1	0.0	-2.4	3.8	1
LH244/LH295	-12.9	0.4	78	-2.0	0.0	-0.4	-12.9	-7
DK57-01	-4.3	0.0	56	-2.1	0.0	3.9	0.5	-8
TR7245/TR7322	7.6	0.0	12	-0.2	0.0	-3.0	11.8	-1
DKC53-33	-4.8	0.5	59	-2.2	0.0	-5.8	-0.1	-8
RX715	5.3	-0.4	22	-0.4	0.0	-4.9	9.3	-5
DKC58-78	3.6	-0.1	31	-1.6	0.0	-8.6	11.2	-6
B119/LH185	7.3	0.0	14	-0.3	0.0	12.1	11.9	-2
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH283	8.2	-0.2	11	0.9	0.0	3.2	8.6	1
B110/NC386	2.7	-0.5	33	5.1	0.0	-2.7	-13.8	0
SGI912/BS26(S-H)C4)-207-1-1-1-1-01-01-01	-2.6	0.3	47	0.6	0.0	-4.7	-5.6	-1
SGI912/BS26(S-H)C4)-255-1-1-1-1-01-01-01	5.3	-1.2	21	1.0	0.0	3.8	4.4	3
SGI912/BSKRL2(H1)C1-183-001-02-01-01-01-B	-1.1	-0.4	43	-0.8	0.0	3.5	1.3	-1
SGI912/TR7322	5.1	-0.6	24	-0.2	0.0	-5.9	8.1	-6
BS13(HI)C2)-6330:02-1-01-01-01/TR7322	-3.6	-0.1	51	0.5	0.0	-5.5	-6.9	-4
BS13(HI)C2)-6330:02-1-01-01-02/TR7322	-6.1	0.1	62	-0.2	0.0	-1.1	-8.0	-1
B104/TR7322	0.6	0.3	37	-1.1	0.0	-5.7	5.0	-5
B110/TR7322	-0.6	-0.2	41	1.0	0.0	1.1	-4.1	-1
B127/TR7322	-0.1	0.4	39	-1.2	0.0	-1.7	4.0	3
B119/TR7322	4.0	-0.1	28	-0.4	0.0	7.5	7.1	2
BS13(S)C8)-7312-1-1-2-01-01-01/TR7322	-11.6	0.4	76	-1.5	0.0	-3.8	-13.2	-2
BS31(R)C0-246-1-01-01-01-01-B-B/TR7322	4.6	-0.2	26	-1.1	0.0	-0.4	10.6	0
BS13(S)C8)-7146-1-3-1-01-02-01/TR7322	3.6	0.3	30	0.3	0.0	-2.7	4.3	-4
Experiment Mean	138.5	28.1	.	18.7	0.3	14.7	223.2	45
Minimum Mean	-13.2	-1.4	.	-2.2	0.0	-8.6	-22.5	-8
Maximum Mean	15.7	0.8	.	5.1	0.0	22.5	24.9	6
BLUP SE	9.1	0.7	.	0.6	.	5.2	14.6	2.2
Genetic Variance	138.1	0.6	.	1.6	0.0	64.6	324.0	14.2
Error Variance	406.8	3.0	.	0.9	0.7	90.8	1199.0	13.2
Repeatability	0.4	0.3	.	0.8	0.0	0.6	0.4	0.7

Table 13. Agronomic data for single crosses grown near Crawfordsville, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Ear Height	Test Weight
					Root	Stalk			
Back to Table 1	bu/ac	x 1000		%	%	%	\$	in	lbs
B104/B116	-24.4	0.0	76	0.5	0.1	1.2	-47.6	1	-1
B110/B116	-16.0	0.0	68	0.8	-1.0	-0.4	-33.9	1	-1
B119/B116	-10.8	0.0	58	-1.0	-1.0	-1.7	-14.0	5	-1
B127/B116	-40.6	0.0	80	0.8	-1.2	-1.4	-78.2	0	0
B129/B116	-7.6	0.0	53	-0.7	-1.2	-1.5	-9.8	1	-1
BS13(S)C8)-7312-1-1-2-01-01-01/B116	-21.3	0.0	71	0.6	-1.2	-0.3	-42.2	-1	-1
BS31(R)C0-246-1-01-01-01-01-B-B/B116	-9.9	0.0	57	-1.0	-1.2	-0.8	-12.0	0	1
NC432/B116	-7.6	0.0	52	1.5	-1.2	-0.8	-23.6	1	-1
SGI912/B116	11.5	0.0	18	-0.9	-1.2	-0.5	26.8	2	-1
TR7245/B116	15.7	0.0	14	-0.9	7.1	1.5	34.7	0	-3
FR3303/B116	1.3	0.0	37	0.6	-1.2	-1.5	-2.1	-4	0
BS13(S)C7)-175-2-1-1-2-1-01-01-01/B116	-3.7	0.0	47	-1.2	1.8	-1.4	0.8	-2	2
B104/B117	0.8	0.0	40	1.4	-1.2	-1.2	-8.5	1	1
B110/B117	5.8	0.0	30	1.8	0.5	-0.1	-2.2	1	0
B119/B117	4.0	0.0	33	0.4	1.7	0.0	3.9	5	-1
B127/B117	-13.3	0.0	61	1.1	-0.6	1.3	-31.2	2	1
B129/B117	-6.2	0.0	50	0.4	-1.0	2.1	-14.2	1	0
SGI912/B117	8.3	0.0	24	-0.4	-0.5	1.6	17.4	2	0
SGI890/B117	10.2	0.0	21	0.7	0.5	-0.6	13.4	5	0
TR7245/B117	21.6	0.0	9	-1.0	-1.2	-0.4	46.2	1	0
B104/B118	-15.9	0.0	67	2.2	2.4	1.3	-42.2	2	-1
B110/B118	-17.3	0.0	69	2.5	3.5	-0.9	-46.4	1	-1
B119/B118	-14.1	0.0	63	1.0	15.6	3.3	-31.8	3	-2
B127/B118	-23.9	0.0	75	0.8	-1.2	-1.8	-47.9	2	1
B129/B118	39.4	0.0	2	0.4	-1.2	-0.4	67.3	0	1
N196/B118	-6.3	0.0	51	0.3	0.0	1.4	-13.7	1	1
SGI912/B118	14.9	0.0	15	-0.9	-1.2	-1.8	32.8	-1	0
SGI890/B118	5.9	0.0	29	0.5	-0.6	-0.8	6.9	5	1
FR3303/B118	16.0	0.0	13	0.8	-1.2	-1.3	23.1	-3	-1
B104/B120	-33.9	0.0	79	1.1	-1.2	-2.3	-67.3	1	-1
B119/B120	-13.5	0.0	62	2.4	-0.6	-0.9	-39.3	0	-1
SGI912/B120	2.6	0.0	34	-0.1	-1.2	0.2	5.2	2	0
SGI890/B120	0.6	0.0	43	0.6	-1.2	-0.9	-3.4	1	0
TR7245/B120	-3.1	0.0	45	2.0	1.1	-1.9	-18.8	3	0
TR7245/B122	11.2	0.0	19	-1.6	-0.6	-2.8	31.7	-4	1
SGI890/B122	13.4	0.0	17	-0.7	-1.2	-1.8	29.5	0	2
B127/B125	-14.8	0.0	65	0.1	-1.2	-0.4	-27.9	-1	3
SGI912/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	10.7	0.0	20	1.1	-1.2	0.5	11.6	-1	1
B104/B97	-8.2	0.0	54	0.4	3.7	-0.3	-17.6	0	0
B110/B97	-29.3	0.0	78	1.6	5.4	-1.3	-62.3	2	-1
N196/B97	-23.5	0.0	74	0.4	-1.2	0.9	-45.3	4	0
SGI890/B97	-4.3	0.0	48	-0.8	7.9	2.8	-3.3	0	0
SGI912/B97	-9.2	0.0	56	-2.0	-0.6	-1.0	-5.0	-3	1
B119/B97	4.2	0.0	31	0.9	0.0	0.4	1.0	1	-2
SGI912/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	35.2	0.0	3	-0.9	-1.2	-1.3	70.3	3	0

Table 13. Agronomic data for single crosses grown near Crawfordsville, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Ear Height	Test Weight
					Root	Stalk			
Back to Table 1	bu/ac	x 1000		%	%	%	\$	in	lbs
TR7245/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	22.1	0.0	8	-1.1	-1.0	0.5	47.9	3	0
B110/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	0.9	0.0	39	2.8	2.4	1.0	-17.5	5	-1
SGI912/BS32(R)C0-249-1-02-01-01-01-B-B	-11.9	0.0	60	0.8	-1.2	-1.3	-27.0	-1	0
SGI912/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	0.7	0.0	42	-1.4	-1.0	0.3	9.7	-4	-1
TR7245/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	20.5	0.0	11	-1.6	1.7	0.7	48.9	-4	2
B110/B131	2.1	0.0	35	1.8	2.8	-1.4	-8.3	-1	-1
SGI912/B131	-1.7	0.0	44	-1.1	-1.2	-0.9	3.7	-1	1
TR7245/B131	9.4	0.0	23	-1.1	-1.2	-0.7	24.5	-3	2
B131/LH198	26.3	0.0	5	-1.8	-1.2	-1.0	56.1	1	2
FR3303/B131	1.1	0.0	38	-0.6	-1.2	-0.9	5.5	-4	1
B119/BSKRL2(H1)C1-183-001-02-01-01-01-B	-5.0	0.0	49	-0.8	0.0	4.8	-4.4	1	1
SGI912/BSKRL2(H1)C1-280-001-01-03-01-01-B	2.0	0.0	36	-1.3	-0.8	-0.9	11.6	-1	1
B73/Mo17	4.1	0.0	32	1.3	-1.2	-1.8	-1.7	2	-1
LH244/LH295	7.6	0.0	25	-1.9	-1.2	-0.8	26.6	-7	2
DK57-01	9.6	0.0	22	-3.3	-1.2	-0.5	40.0	-6	0
TR7245/TR7322	21.5	0.0	10	-1.2	-0.6	3.1	47.4	-2	-1
DKC53-33	18.9	0.0	12	-2.9	-1.2	-1.9	55.5	-4	1
RX715	45.8	0.0	1	-1.8	-1.2	-0.5	97.7	-2	1
DKC58-78	25.5	0.0	6	-1.9	-1.2	-2.8	60.1	-5	1
B119/LH185	7.5	0.0	26	1.3	1.2	2.8	4.2	-2	-2
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH283	14.2	0.0	16	-0.6	0.7	4.1	29.8	-4	-1
B110/NC386	-21.5	0.0	72	3.4	-1.2	0.6	-57.7	3	-3
SGI912/BS26(S-H)C4)-207-1-1-1-1-01-01-01	-24.8	0.0	77	-0.8	-1.2	-2.1	-41.0	3	0
SGI912/BS26(S-H)C4)-255-1-1-1-1-01-01-01	-11.4	0.0	59	1.6	0.1	0.1	-30.8	2	1
SGI912/BSKRL2(H1)C1-183-001-02-01-01-01-B	-14.2	0.0	64	-1.6	0.0	0.6	-16.3	1	2
SGI912/TR7322	22.4	0.0	7	-0.9	-1.2	-1.4	46.8	-2	1
BS13(HI)C2)-6330:02-1-01-01-01/TR7322	6.1	0.0	28	-0.6	-1.2	-1.8	14.5	-1	0
BS13(HI)C2)-6330:02-1-01-01-02/TR7322	29.8	0.0	4	0.0	-1.2	-2.3	54.0	-1	1
B104/TR7322	-3.1	0.0	46	1.3	-1.2	-0.9	-14.2	-5	0
B110/TR7322	0.8	0.0	41	0.6	-0.8	-0.2	-2.4	-1	-1
B127/TR7322	-15.8	0.0	66	-1.5	-1.2	0.9	-20.3	1	1
B119/TR7322	-21.7	0.0	73	-0.1	-1.2	13.8	-37.8	1	-1
BS13(S)C8)-7312-1-1-2-01-01-01/TR7322	-19.8	0.0	70	0.5	-1.2	5.3	-39.3	-3	-3
BS31(R)C0-246-1-01-01-01-01-B-B/TR7322	6.9	0.0	27	-1.1	-1.2	1.5	19.9	-3	0
BS13(S)C8)-7146-1-3-1-01-02-01/TR7322	-9.1	0.0	55	0.0	-1.2	0.1	-16.6	1	-1
Experiment Mean	127.9	26.8	.	16.5	1.7	5.1	221.9	50	58
Minimum Mean	-40.6	0.0	.	-3.3	-1.2	-2.8	-78.2	-7	-3
Maximum Mean	45.8	0.0	.	3.4	15.6	13.8	97.7	5	3
BLUP SE	8.4	.	.	0.4	1.8	2.2	0.9	1.8	16.0
Genetic Variance	355.8	0.0	.	2.0	9.7	9.8	1500.5	10.4	2.2
Error Variance	155.2	28.1	.	0.4	9.2	17.0	533.7	9.0	2.2
Repeatability	0.8	0.0	.	0.9	0.7	0.5	0.9	0.7	0.7

Table 14. Agronomic data for single crosses grown near Fairfield, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Ear Height	Test Weight
					Root	Stalk			
Back to Table 1	bu/ac	x 1000		%	%	%	\$	in	lbs
B104/B116	1.7	-0.2	31	0.3	-0.1	0.0	1.4	2.8	-0.2
B110/B116	1.8	0.3	28	-0.8	-0.1	-0.5	8.3	0.9	-0.2
B119/B116	-0.1	0.0	39	-0.2	-0.1	-0.5	0.7	0.9	-0.3
B127/B116	-9.4	0.0	78	-0.2	-0.1	-0.1	-20.0	0.9	-0.1
B129/B116	-1.8	0.4	48	-0.6	-0.1	-1.0	-0.9	0.9	0.0
BS13(S)C8)-7312-1-1-2-01-01-01/B116	-6.2	0.2	73	0.2	-0.1	-0.9	-14.0	2.2	-0.2
BS31(R)C0-246-1-01-01-01-01-B-B/B116	2.9	0.0	26	-1.5	-0.1	0.4	14.2	2.8	0.6
NC432/B116	10.5	0.3	2	-0.1	-0.1	2.1	22.9	-1.0	-0.1
SGI912/B116	12.9	0.1	1	-0.7	-0.1	-0.9	32.2	-0.7	-0.4
TR7245/B116	8.9	-0.1	5	-0.8	0.2	-0.5	23.8	1.3	0.3
FR3303/B116	3.0	0.3	24	0.0	-0.1	-0.1	7.3	-0.7	-0.2
BS13(S)C7)-175-2-1-1-2-1-01-01-01/B116	-2.0	-0.1	51	-0.5	0.2	-0.9	-2.1	-1.3	0.7
B104/B117	-3.6	-0.2	63	0.6	-0.1	-1.4	-10.9	0.8	-0.2
B110/B117	-2.1	0.3	52	0.6	-0.1	2.2	-7.8	0.6	0.0
B119/B117	-6.0	-0.1	71	0.1	1.6	4.2	-13.9	5.0	-0.3
B127/B117	-1.4	0.1	46	-0.3	-0.1	-1.4	-1.5	0.2	-0.1
B129/B117	-1.9	-0.1	49	1.1	-0.1	1.4	-10.0	1.3	0.1
SGI912/B117	-2.3	-0.3	54	0.3	-0.1	-0.5	-6.8	-2.0	-0.3
SGI890/B117	10.3	-0.2	3	-0.4	-0.1	0.1	24.8	3.7	0.4
TR7245/B117	-1.4	0.0	47	0.6	-0.1	0.0	-6.4	-2.4	0.5
B104/B118	-5.2	0.0	68	0.0	0.2	-0.9	-11.0	1.5	0.3
B110/B118	-6.0	0.0	72	1.3	0.7	0.0	-19.5	0.9	-0.1
B119/B118	0.1	0.0	38	0.2	1.7	3.1	-1.2	5.1	-0.2
B127/B118	-3.1	0.3	60	-0.6	-0.1	1.7	-3.6	3.1	0.1
B129/B118	0.8	-0.7	36	1.4	-0.1	2.2	-6.6	3.7	0.0
N196/B118	3.7	0.4	20	0.2	-0.1	-0.1	6.8	0.3	0.1
SGI912/B118	-5.4	-0.3	70	-0.6	-0.1	-1.4	-9.2	-3.9	0.0
SGI890/B118	4.7	0.3	12	-0.5	-0.1	-0.1	12.5	2.2	-0.1
FR3303/B118	-0.9	-0.2	40	0.7	-0.1	-0.9	-5.8	0.2	0.2
B104/B120	-4.9	0.2	67	-0.1	-0.1	-1.0	-10.5	0.4	0.1
B119/B120	-3.5	-0.1	62	1.6	-0.1	-0.5	-16.3	0.6	-0.6
SGI912/B120	3.3	0.1	22	-0.2	-0.1	-0.9	6.5	0.2	-0.4
SGI890/B120	2.1	-0.1	27	1.1	-0.1	0.9	-1.6	1.5	-0.2
TR7245/B120	4.6	0.1	13	0.3	-0.1	-0.5	8.3	3.2	0.0
TR7245/B122	1.1	0.0	34	-1.4	-0.1	-0.9	10.2	-3.1	0.5
SGI890/B122	-3.8	-0.3	64	0.3	-0.1	-0.5	-9.2	-2.2	0.4
B127/B125	-3.3	-0.1	61	0.1	-0.1	-0.4	-8.0	2.4	0.4
SGI912/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	4.8	-0.1	11	0.0	-0.1	1.4	10.2	0.9	0.2
B104/B97	-9.3	0.4	77	1.3	-0.1	2.5	-26.9	1.5	-0.2
B110/B97	-1.2	-0.2	43	0.8	-0.1	-0.6	-4.5	2.4	-0.2
N196/B97	-2.4	-0.1	56	-0.1	-0.1	0.4	-4.8	-0.3	-0.2
SGI890/B97	-1.1	0.0	42	1.7	-0.1	-0.5	-12.1	-0.7	-0.3
SGI912/B97	3.4	0.2	21	-0.6	-0.1	0.5	10.6	-2.1	0.4
B119/B97	1.2	0.0	33	0.1	0.7	1.8	2.1	2.0	-0.2
SGI912/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	-2.3	0.4	55	0.0	-0.1	-1.0	-5.2	0.7	-0.1

Table 14. Agronomic data for single crosses grown near Fairfield, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Ear Height	Test Weight
					Root	Stalk			
Back to Table 1	bu/ac	x 1000		%	%	%	\$	in	lbs
TR7245/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	3.3	0.0	23	-0.7	-0.1	-0.5	11.1	4.0	0.2
B110/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	4.2	0.4	15	2.1	-0.1	1.3	-3.5	1.7	0.0
SGI912/BS32(R)C0-249-1-02-01-01-01-B-B	-6.9	-0.6	75	0.4	-0.1	0.2	-17.3	-1.6	0.1
SGI912/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	1.0	-0.2	35	-0.7	-0.1	-1.4	5.7	-3.9	0.1
TR7245/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	3.0	0.3	25	-1.7	-0.1	-0.9	15.9	-2.1	0.6
B110/B131	3.8	0.6	19	0.0	-0.1	1.5	8.5	-1.1	-0.1
SGI912/B131	-1.9	0.2	50	-0.5	-0.1	-1.4	-2.1	-1.9	0.2
TR7245/B131	0.4	-0.1	37	-1.1	-0.1	-0.5	7.4	1.5	0.2
B131/LH198	-1.2	-0.4	45	-1.1	-0.1	-0.9	3.0	0.0	0.9
FR3303/B131	4.4	-0.1	14	-1.1	-0.1	-0.1	15.7	-2.6	0.7
B119/BSKRL2(H1)C1-183-001-02-01-01-01-B	-1.2	-0.1	44	-1.1	-0.1	0.9	3.2	0.9	-0.1
SGI912/BSKRL2(H1)C1-280-001-01-03-01-01-B	-3.9	0.2	66	-0.8	-0.1	-1.4	-4.3	-1.4	0.1
B73/Mo17	-8.1	0.3	76	-0.2	-0.1	-0.5	-17.0	-0.4	-0.4
LH244/LH295	-3.8	-0.3	65	-1.4	-0.1	-1.4	-1.5	-5.0	0.6
DK57-01	7.0	0.3	10	-2.4	-0.1	-1.0	29.5	-2.3	0.0
TR7245/TR7322	4.1	0.4	17	-0.4	-0.1	0.7	11.5	0.5	0.2
DKC53-33	-2.7	0.2	58	0.2	-0.1	-1.4	-6.6	-6.3	0.0
RX715	8.2	-0.1	8	-0.8	-0.1	0.0	22.3	-1.0	0.4
DKC58-78	8.0	-0.1	9	-1.2	-0.1	-1.4	24.8	-2.9	-0.1
B119/LH185	-2.9	-0.3	59	0.3	0.2	0.5	-8.0	1.1	-0.9
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH283	-2.2	-0.5	53	0.3	-0.1	1.6	-7.3	-2.6	0.1
B110/NC386	-14.9	-0.5	80	4.4	-0.1	-0.4	-52.1	-1.2	-0.8
SGI912/BS26(S-H)C4)-207-1-1-1-1-01-01-01	-13.9	-0.4	79	0.3	-0.1	-0.5	-32.0	-0.1	-0.1
SGI912/BS26(S-H)C4)-255-1-1-1-1-01-01-01	-2.7	-0.3	57	0.4	-0.1	-1.4	-8.3	2.2	0.2
SGI912/BSKRL2(H1)C1-183-001-02-01-01-01-B	-5.4	-0.4	69	-0.2	0.2	-0.5	-10.6	-1.2	0.4
SGI912/TR7322	9.8	-0.1	4	-0.2	-0.1	-0.5	22.3	-2.6	0.0
BS13(HI)C2)-6330:02-1-01-01-01/TR7322	1.7	0.1	30	0.2	-0.1	0.4	2.1	0.4	-0.4
BS13(HI)C2)-6330:02-1-01-01-02/TR7322	4.1	-0.1	18	-0.1	-0.1	-1.4	9.3	-1.0	-0.6
B104/TR7322	-6.4	-0.2	74	1.4	-0.1	0.0	-20.9	-2.3	-0.4
B110/TR7322	8.2	0.4	7	0.9	-0.1	0.3	12.1	0.1	-0.6
B127/TR7322	-0.9	0.1	41	-1.4	-0.1	1.3	5.5	-1.2	0.0
B119/TR7322	4.2	0.0	16	-0.1	-0.1	2.8	9.2	2.6	-0.3
BS13(S)C8)-7312-1-1-2-01-01-01/TR7322	1.5	-0.2	32	1.0	-0.1	-0.9	-2.4	-1.7	-0.2
BS31(R)C0-246-1-01-01-01-01-B-B/TR7322	8.6	0.5	6	0.0	-0.1	1.2	18.3	-2.5	0.4
BS13(S)C8)-7146-1-3-1-01-02-01/TR7322	1.8	0.0	29	1.0	-0.1	-0.5	3.4	-2.5	-0.1
Experiment Mean	151.5	28.3	.	18.5	0.3	2.6	247.6	46.5	54.2
Minimum Mean	-14.9	-0.7	.	-2.4	-0.1	-1.4	-52.1	-6.3	-0.9
Maximum Mean	12.9	0.6	.	4.4	1.7	4.2	32.2	5.1	0.9
BLUP SE	7.7	0.5	.	0.8	0.5	1.1	0.6	2.0	16.7
Genetic Variance	87.3	0.3	.	1.48	0.31	2.74	482.09	9.07	0.47
Error Variance	344.0	2.3	.	1.73	1.55	4.78	1241.7	14.78	2.85
Repeatability	0.34	0.21	.	0.63	0.29	0.53	0.44	0.55	0.25

Table 15. Agronomic data for single crosses grown near Carroll, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value
					Root	Stalk	
Back to Table 1	bu/ac	x 1000		%	%	%	\$
B104/B116	5.7	-0.5	12	-0.7	2.9	-1.5	14.4
B110/B116	-1.7	-0.3	52	0.8	2.1	-0.5	-7.0
B119/B116	0.6	0.2	33	-0.8	-0.4	-1.5	4.2
B127/B116	-3.7	0.5	61	-0.8	-1.4	-0.2	-4.6
B129/B116	-2.8	-0.5	56	-0.8	-1.9	0.5	-2.9
BS13(S)C8)-7312-1-1-2-01-01-01/B116	-5.0	0.3	66	1.0	-1.9	-1.5	-14.4
BS31(R)C0-246-1-01-01-01-01-B-B/B116	-5.2	-0.1	67	-1.2	-1.9	-0.1	-6.4
NC432/B116	0.1	0.1	39	0.7	-0.4	-0.1	-2.6
SGI912/B116	3.3	0.2	21	-1.3	2.1	-0.5	12.0
TR7245/B116	5.6	0.5	13	-1.5	-0.9	-1.5	17.9
FR3303/B116	-12.2	-0.4	78	0.2	-1.9	-0.5	-25.8
BS13(S)C7)-175-2-1-1-2-1-01-01-01/B116	-5.9	-0.5	71	-0.3	-0.8	1.5	-11.4
B104/B117	-13.5	-0.9	79	1.1	-1.9	-0.4	-31.7
B110/B117	-13.9	0.3	80	3.3	2.7	-0.1	-40.0
B119/B117	-5.9	-0.4	70	1.6	9.3	8.0	-18.5
B127/B117	0.5	0.4	35	0.0	0.0	0.4	0.7
B129/B117	0.9	-0.6	30	-0.1	0.3	-0.6	2.4
SGI912/B117	-0.4	0.1	46	-0.6	-0.4	-0.1	1.5
SGI890/B117	-2.7	-0.3	55	0.8	-1.9	-1.5	-9.0
TR7245/B117	9.0	0.8	6	-0.9	3.8	-1.5	22.2
B104/B118	-0.1	-0.7	43	0.7	5.1	-1.0	-3.2
B110/B118	3.6	0.3	20	1.4	10.0	-1.5	1.3
B119/B118	0.1	0.5	40	0.7	6.1	1.7	-2.8
B127/B118	-1.3	0.2	51	0.9	-1.9	1.5	-6.4
B129/B118	0.2	0.0	37	-0.7	-1.4	1.4	2.9
N196/B118	2.3	-0.3	26	-0.5	-1.3	0.5	6.7
SGI912/B118	5.3	-0.4	15	-1.1	6.2	-0.6	15.5
SGI890/B118	15.4	-0.5	1	-0.2	4.6	-1.0	32.5
FR3303/B118	-2.2	0.5	54	0.1	-0.4	0.9	-4.8
B104/B120	-6.4	-0.4	73	2.4	-1.9	-1.5	-18.3
B119/B120	5.8	0.8	10	2.9	-1.9	-0.2	-1.1
SGI912/B120	-6.5	-0.5	74	1.0	-0.2	0.5	-17.1
SGI890/B120	2.6	0.2	25	1.5	-1.9	-0.7	-1.0
TR7245/B120	4.4	-0.4	16	1.0	-1.9	0.0	6.9
TR7245/B122	-3.2	0.5	59	-1.7	-1.9	-0.6	-0.3
SGI890/B122	3.0	0.0	22	-0.9	-1.9	-1.5	9.6
B127/B125	-5.5	0.5	69	-1.5	-1.9	0.3	-5.7
SGI912/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	0.1	-0.6	41	0.7	1.1	1.0	-2.9
B104/B97	-2.8	-0.4	57	1.9	0.2	-0.5	-10.2
B110/B97	0.6	1.0	34	1.0	3.3	-0.2	-3.3
N196/B97	6.8	0.3	7	0.3	-1.9	-0.6	12.4
SGI890/B97	5.7	0.5	11	1.0	-1.4	-1.1	7.0
SGI912/B97	9.2	-0.2	4	-1.1	4.9	-1.0	23.6
B119/B97	-2.9	0.5	58	0.8	2.9	-0.2	-9.2
SGI912/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	12.6	0.4	2	-1.3	-0.9	-0.6	31.6

Table 15. Agronomic data for single crosses grown near Carroll, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value
					Root	Stalk	
Back to Table 1	bu/ac	x 1000		%	%	%	\$
TR7245/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	0.0	0.7	42	0.7	-1.4	-0.2	-2.6
B110/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	-1.0	-0.5	50	1.4	6.1	-1.1	-6.4
SGI912/BS32(R)C0-249-1-02-01-01-01-B-B	-0.6	-0.2	47	0.9	6.5	-0.6	-5.1
SGI912/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	-4.8	-0.2	64	-0.7	-1.9	-1.0	-7.7
TR7245/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	-0.9	0.5	49	-0.1	0.1	3.0	-1.7
B110/B131	3.7	0.2	19	0.9	-1.4	-0.2	3.8
SGI912/B131	3.8	-0.4	18	-1.3	-1.9	-1.1	13.0
TR7245/B131	6.8	0.1	8	-1.4	-0.9	-1.5	20.0
B131/LH198	-6.6	-1.4	75	-0.8	-1.9	-1.0	-10.8
FR3303/B131	-4.3	0.4	63	-0.3	-1.9	-1.5	-8.0
B119/BSKRL2(H1)C1-183-001-02-01-01-01-B	-4.9	-0.3	65	-0.7	-1.9	4.9	-7.4
SGI912/BSKRL2(H1)C1-280-001-01-03-01-01-B	2.8	0.1	23	-0.7	-1.3	-1.1	8.5
B73/Mo17	-0.3	-0.2	45	-0.2	0.7	0.9	0.2
LH244/LH295	-7.5	-0.2	76	-2.1	-1.9	-1.5	-7.9
DK57-01	1.2	0.6	28	-1.4	-1.9	0.7	8.2
TR7245/TR7322	5.3	0.2	14	-1.2	-1.9	1.3	15.7
DKC53-33	-5.3	0.7	68	-1.7	-1.0	-1.5	-4.5
RX715	9.1	-0.2	5	-1.2	-1.9	0.9	23.9
DKC58-78	-3.7	-0.1	60	-1.9	-1.9	-1.5	-0.2
B119/LH185	-7.6	-0.4	77	1.1	3.3	5.9	-20.1
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH283	3.9	-0.1	17	0.5	-0.8	0.4	5.5
B110/NC386	-0.2	0.0	44	3.5	-1.9	-0.2	-14.7
SGI912/BS26(S-H)C4)-207-1-1-1-1-01-01-01	9.6	-0.1	3	1.3	1.2	-0.1	13.4
SGI912/BS26(S-H)C4)-255-1-1-1-1-01-01-01	0.9	-1.2	29	0.7	-1.9	3.9	-1.4
SGI912/BSKRL2(H1)C1-183-001-02-01-01-01-B	2.8	-0.7	24	-1.7	-0.8	0.0	12.5
SGI912/TR7322	0.6	-0.5	32	-0.7	-1.3	-1.0	4.1
BS13(HI)C2)-6330:02-1-01-01-01/TR7322	0.7	0.0	31	-1.3	-1.9	-0.5	6.4
BS13(HI)C2)-6330:02-1-01-01-02/TR7322	-2.0	0.7	53	0.3	-1.9	-0.6	-5.0
B104/TR7322	2.0	-0.1	27	-0.7	-1.9	-1.1	6.9
B110/TR7322	6.7	0.5	9	0.2	-0.9	-0.1	12.6
B127/TR7322	0.2	0.4	38	-0.6	-1.9	-0.1	2.7
B119/TR7322	-4.0	0.6	62	-0.9	-1.9	2.5	-5.1
BS13(S)C8)-7312-1-1-2-01-01-01/TR7322	-6.2	0.4	72	1.0	-1.9	0.3	-17.0
BS31(R)C0-246-1-01-01-01-01-B-B/TR7322	0.4	0.4	36	-0.8	-1.9	0.2	3.8
BS13(S)C8)-7146-1-3-1-01-02-01/TR7322	-0.7	0.0	48	-0.3	-1.9	-0.6	-0.5
Experiment Mean	154.5	28.5	.	16.6	3.1	2.7	267.9
Minimum Mean	-13.9	-1.4	.	-2.1	-1.9	-1.5	-40.0
Maximum Mean	15.4	1.0	.	3.5	10.0	8.0	32.5
BLUP SE	7.4	0.6	.	0.5	2.3	1.5	15.4
Genetic Variance	84.5	0.6	.	1.7	13.2	4.9	402.7
Error Variance	299.2	2.0	.	0.6	17.5	7.5	1088.9
Repeatability	0.36	0.37	.	0.85	0.60	0.57	0.43

Table 16. Agronomic data for single crosses grown near Pella, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs
B104/B116	-20.2	0.0	72	0.7	.	-1.2	-42.1	0.1
B110/B116	-19.0	0.0	69	0.8	.	-1.7	-40.2	-1.0
B119/B116	8.4	0.0	27	-0.2	.	-0.7	17.0	-1.1
B127/B116	-40.8	0.0	80	-0.2	.	0.8	-73.3	1.1
B129/B116	16.8	0.0	10	-0.6	.	-1.2	35.3	-0.5
BS13(S)C8)-7312-1-1-2-01-01-01/B116	-22.3	0.0	75	0.8	.	0.3	-46.1	-1.1
BS31(R)C0-246-1-01-01-01-01-B-B/B116	-4.2	0.0	50	-0.2	.	-1.2	-6.2	1.4
NC432/B116	-17.1	0.0	65	1.1	.	-1.7	-38.4	0.7
SGI912/B116	16.1	0.0	13	-0.7	.	-1.2	34.8	-0.9
TR7245/B116	0.0	0.0	42	-0.9	.	-1.2	7.1	-0.3
FR3303/B116	-25.9	0.0	78	1.1	.	-0.7	-54.4	0.0
BS13(S)C7)-175-2-1-1-2-1-01-01-01/B116	-12.6	0.0	63	-0.2	.	1.7	-21.9	0.9
B104/B117	-23.5	0.0	76	1.7	.	0.3	-54.9	0.6
B110/B117	-25.7	0.0	77	1.7	.	-0.2	-58.4	-0.2
B119/B117	-4.8	0.0	52	-0.2	.	3.7	-7.3	-1.3
B127/B117	-18.4	0.0	68	-0.5	.	1.2	-30.4	1.0
B129/B117	16.0	0.0	14	-0.1	.	1.2	29.2	0.3
SGI912/B117	9.4	0.0	25	-0.7	.	-1.2	22.0	-0.5
SGI890/B117	-0.8	0.0	43	0.7	.	-0.7	-7.5	0.6
TR7245/B117	3.5	0.0	34	-0.7	.	0.3	11.5	0.4
B104/B118	-20.7	0.0	73	1.7	.	1.8	-49.5	0.1
B110/B118	-19.8	0.0	70	2.0	.	0.7	-50.4	-0.8
B119/B118	1.3	0.0	39	-0.3	.	0.7	4.6	-1.3
B127/B118	-12.2	0.0	62	-0.4	.	0.7	-19.6	0.8
B129/B118	16.2	0.0	12	0.0	.	1.7	29.0	0.2
N196/B118	3.9	0.0	33	0.0	.	-1.2	6.4	0.6
SGI912/B118	11.0	0.0	22	-0.4	.	-1.2	23.2	-0.8
SGI890/B118	16.8	0.0	11	0.3	.	-0.9	27.6	0.9
FR3303/B118	-6.2	0.0	56	0.2	.	-1.2	-13.2	0.3
B104/B120	-21.3	0.0	74	2.7	.	-0.2	-57.3	0.3
B119/B120	-4.4	0.0	51	2.8	.	-0.7	-29.2	-1.8
SGI912/B120	5.1	0.0	31	0.7	.	0.7	3.5	-0.3
SGI890/B120	-5.3	0.0	55	1.3	.	-1.7	-19.6	0.8
TR7245/B120	-2.6	0.0	46	0.6	.	-1.2	-9.7	-0.1
TR7245/B122	-7.3	0.0	58	-1.3	.	0.4	-4.4	1.5
SGI890/B122	10.1	0.0	24	-0.9	.	-1.7	25.2	1.6
B127/B125	-15.2	0.0	64	-0.4	.	3.6	-25.1	2.1
SGI912/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	36.7	0.0	2	-0.2	.	-0.7	67.8	0.9
B104/B97	-18.1	0.0	67	0.5	.	0.7	-36.7	-0.4
B110/B97	-34.9	0.0	79	1.6	.	1.2	-73.9	-1.3
N196/B97	11.9	0.0	20	-1.0	.	3.7	29.6	0.2
SGI890/B97	14.0	0.0	15	-0.1	.	-1.2	25.9	0.5
SGI912/B97	12.5	0.0	19	-1.5	.	-1.7	34.6	-0.6
B119/B97	-2.7	0.0	47	-0.2	.	2.6	-3.4	-1.1
SGI912/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	13.1	0.0	16	-1.4	.	-0.2	34.9	-1.0

Table 16. Agronomic data for single crosses grown near Pella, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs
TR7245/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	17.6	0.0	7	-1.4	.	-1.2	43.1	-1.0
B110/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	-19.9	0.0	71	2.6	.	-0.2	-54.8	1.0
SGI912/BS32(R)C0-249-1-02-01-01-01-B-B	0.8	0.0	40	1.6	.	1.2	-11.4	0.5
SGI912/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	10.4	0.0	23	-0.4	.	-1.2	22.1	1.3
TR7245/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	2.5	0.0	37	-0.5	.	0.3	7.8	1.4
B110/B131	-10.4	0.0	60	1.9	.	-0.6	-33.1	0.6
SGI912/B131	-5.0	0.0	54	-0.1	.	-1.7	-8.6	2.2
TR7245/B131	3.3	0.0	35	-0.6	.	-0.4	11.1	2.0
B131/LH198	-11.5	0.0	61	-0.5	.	-1.2	-17.6	2.4
FR3303/B131	-10.0	0.0	59	-0.8	.	-0.7	-12.4	2.1
B119/BSKRL2(H1)C1-183-001-02-01-01-01-B	0.8	0.0	41	-0.7	.	0.7	6.5	-0.1
SGI912/BSKRL2(H1)C1-280-001-01-03-01-01-B	12.7	0.0	17	-0.3	.	-1.2	25.4	1.6
B73/Mo17	-2.2	0.0	45	-0.7	.	0.3	0.8	-1.2
LH244/LH295	6.6	0.0	28	-0.9	.	-0.2	19.3	1.8
DK57-01	16.9	0.0	9	-2.1	.	0.8	48.2	-0.1
TR7245/TR7322	11.3	0.0	21	-1.1	.	-1.7	29.1	-0.6
DKC53-33	2.6	0.0	36	-1.9	.	-1.2	19.1	-0.1
RX715	39.2	0.0	1	-0.2	.	0.7	72.7	0.8
DKC58-78	28.2	0.0	4	-1.8	.	-1.7	67.1	0.1
B119/LH185	6.5	0.0	29	-0.9	.	-0.7	18.6	-3.0
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH283	28.3	0.0	3	0.3	.	4.0	48.7	0.2
B110/NC386	-3.8	0.0	49	4.7	.	0.3	-42.5	-2.5
SGI912/BS26(S-H)C4)-207-1-1-1-1-01-01-01	-17.4	0.0	66	0.3	.	0.3	-33.7	0.8
SGI912/BS26(S-H)C4)-255-1-1-1-1-01-01-01	5.9	0.0	30	0.3	.	7.9	8.2	-0.3
SGI912/BSKRL2(H1)C1-183-001-02-01-01-01-B	-1.0	0.0	44	-1.1	.	-0.7	6.3	-2.6
SGI912/TR7322	22.1	0.0	5	-0.6	.	-0.7	44.8	-0.2
BS13(HI)C2)-6330:02-1-01-01-01/TR7322	12.6	0.0	18	-0.6	.	-1.7	27.5	-1.8
BS13(HI)C2)-6330:02-1-01-01-02/TR7322	5.0	0.0	32	-0.7	.	-1.7	14.3	-2.2
B104/TR7322	-3.1	0.0	48	0.0	.	-1.7	-6.0	0.0
B110/TR7322	16.9	0.0	8	0.1	.	-1.2	29.9	-1.8
B127/TR7322	-6.4	0.0	57	-1.8	.	0.8	1.5	-0.9
B119/TR7322	17.8	0.0	6	-0.8	.	1.7	39.2	-1.9
BS13(S)C8)-7312-1-1-2-01-01-01/TR7322	9.0	0.0	26	-0.2	.	1.2	17.2	-0.5
BS31(R)C0-246-1-01-01-01-01-B-B/TR7322	-5.0	0.0	53	0.0	.	-0.2	-9.7	1.8
BS13(S)C8)-7146-1-3-1-01-02-01/TR7322	2.1	0.0	38	-0.2	.	-0.3	5.3	-1.5
Experiment Mean	172.2	24.4	.	16.8	.	3.1	297.2	58.5
Minimum Mean	-40.8	0.0	.	-2.1	.	-1.7	-73.9	-3.0
Maximum Mean	39.2	0.0	.	4.7	.	7.9	72.7	2.4
BLUP SE	8.7	.	.	0.4	.	0.5	16.8	1.5
Genetic Variance	319.9	0.0	.	1.5	.	5.0	1404.5	1.7
Error Variance	184.6	1.2	.	0.2	.	8.6	651.6	0.5
Repeatability	0.78	0.00	.	0.92	.	0.54	0.81	0.87

Table 17. Agronomic data for single crosses grown near Williamsburg, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs
B104/B116	-32.7	0.0	77	0.0	-0.2	-0.2	-56.1	0.0
B110/B116	-39.2	0.0	80	0.8	19.5	-0.7	-71.6	-1.4
B119/B116	-16.3	0.0	65	-0.1	26.0	-0.2	-27.6	-1.3
B127/B116	-37.5	0.0	78	-0.1	-3.4	0.0	-63.0	0.1
B129/B116	-6.7	0.0	50	-0.4	-1.1	-0.2	-8.9	0.1
BS13(S)C8)-7312-1-1-2-01-01-01/B116	-29.6	0.0	74	1.7	-3.0	-0.5	-59.8	-0.9
BS31(R)C0-246-1-01-01-01-01-B-B/B116	-19.9	0.0	68	0.0	-2.5	0.0	-34.1	0.0
NC432/B116	-21.9	0.0	71	0.3	-3.0	0.6	-39.5	-0.2
SGI912/B116	10.1	0.0	30	-0.3	-0.7	0.6	19.0	0.0
TR7245/B116	11.3	0.0	27	-0.4	3.0	-0.7	21.8	0.1
FR3303/B116	-11.3	0.0	59	1.0	-0.7	-0.5	-25.6	-0.6
BS13(S)C7)-175-2-1-1-2-1-01-01-01/B116	-8.3	0.0	54	-0.6	-3.9	0.3	-10.6	0.4
B104/B117	-25.6	0.0	73	0.2	-2.1	-0.7	-45.0	0.2
B110/B117	-12.9	0.0	60	1.7	2.1	1.4	-32.7	-0.4
B119/B117	18.0	0.0	12	0.4	4.8	0.3	27.4	-0.2
B127/B117	-15.6	0.0	64	-0.6	-0.7	-0.2	-23.4	0.6
B129/B117	3.0	0.0	43	0.4	-1.1	0.1	1.8	0.1
SGI912/B117	21.6	0.0	7	-0.3	-2.1	0.0	38.6	0.2
SGI890/B117	14.5	0.0	19	-0.1	11.3	-0.7	25.0	0.3
TR7245/B117	18.0	0.0	13	-1.7	5.8	-0.2	43.2	1.1
B104/B118	-25.6	0.0	72	1.3	4.4	-0.2	-51.4	-0.4
B110/B118	-30.2	0.0	76	1.6	14.5	-0.7	-60.2	-0.5
B119/B118	-8.4	0.0	55	0.3	5.8	1.2	-16.4	0.1
B127/B118	-14.5	0.0	62	-0.7	-3.9	-0.4	-20.9	0.6
B129/B118	14.9	0.0	17	1.4	-1.6	0.3	15.0	-0.4
N196/B118	-7.9	0.0	53	0.3	2.1	-0.4	-15.4	0.1
SGI912/B118	25.5	0.0	3	-0.7	-2.1	0.4	48.8	0.6
SGI890/B118	22.1	0.0	6	0.1	-1.1	1.5	36.2	0.2
FR3303/B118	-7.6	0.0	52	0.4	4.8	-0.4	-15.9	0.0
B104/B120	-38.0	0.0	79	0.1	-3.9	-0.7	-65.4	0.2
B119/B120	-20.8	0.0	69	0.7	-3.9	0.8	-39.4	-0.1
SGI912/B120	5.0	0.0	37	-0.5	3.5	-0.4	12.0	0.4
SGI890/B120	3.9	0.0	39	0.5	-1.6	-0.7	2.6	0.0
TR7245/B120	-2.6	0.0	45	1.0	-1.1	-0.4	-11.6	-0.3
TR7245/B122	3.7	0.0	40	-1.4	-3.0	0.1	15.7	1.1
SGI890/B122	23.2	0.0	5	-0.2	-3.0	-0.5	40.8	0.4
B127/B125	-14.8	0.0	63	-1.4	-3.9	0.9	-16.6	1.1
SGI912/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	20.3	0.0	9	0.3	-3.9	2.3	32.0	-0.1
B104/B97	-6.6	0.0	49	1.0	-3.0	-0.4	-18.0	-0.6
B110/B97	-9.9	0.0	58	1.9	4.4	0.3	-28.6	-1.0
N196/B97	9.5	0.0	31	1.0	0.7	-0.4	8.6	-0.8
SGI890/B97	9.2	0.0	33	0.2	19.5	-0.4	14.2	-0.3
SGI912/B97	14.2	0.0	22	-0.4	-3.0	-0.2	26.6	-0.1
B119/B97	17.6	0.0	14	1.1	0.2	-0.4	21.5	-0.8
SGI912/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	3.4	0.0	41	-0.2	2.1	0.4	7.0	-1.3

Table 17. Agronomic data for single crosses grown near Williamsburg, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs
TR7245/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	35.5	0.0	1	0.5	-3.0	-0.4	56.9	-1.2
B110/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	-4.1	0.0	47	3.7	3.5	0.3	-31.4	-1.8
SGI912/BS32(R)C0-249-1-02-01-01-01-B-B	16.4	0.0	16	1.3	-2.5	-0.5	17.8	-0.3
SGI912/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	14.7	0.0	18	-0.4	3.0	-0.2	27.8	0.5
TR7245/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	14.2	0.0	20	-2.0	1.2	-0.2	38.7	1.2
B110/B131	-6.7	0.0	51	1.5	6.7	-0.7	-21.3	-0.4
SGI912/B131	10.2	0.0	29	-1.3	-1.6	-0.5	26.4	0.9
TR7245/B131	12.1	0.0	26	-0.4	-2.5	0.1	24.4	0.5
B131/LH198	-9.1	0.0	56	-1.7	-3.9	-0.2	-4.7	1.2
FR3303/B131	-17.9	0.0	67	-1.0	-3.9	-0.7	-24.4	0.8
B119/BSKRL2(H1)C1-183-001-02-01-01-01-B	-9.3	0.0	57	-1.2	-3.0	0.0	-8.4	0.8
SGI912/BSKRL2(H1)C1-280-001-01-03-01-01-B	14.2	0.0	21	-0.9	2.5	-0.7	30.2	0.7
B73/Mo17	-29.8	0.0	75	0.0	-3.9	0.0	-50.9	0.1
LH244/LH295	19.9	0.0	10	-2.5	-3.9	-0.4	52.6	1.2
DK57-01	18.8	0.0	11	-2.0	-3.9	-0.2	47.4	1.2
TR7245/TR7322	7.0	0.0	35	-1.4	-3.9	0.1	21.3	0.9
DKC53-33	10.2	0.0	28	-2.2	-3.9	0.4	33.0	1.2
RX715	13.3	0.0	25	-0.6	-2.5	0.1	29.9	0.5
DKC58-78	25.9	0.0	2	-1.5	-3.9	-0.7	55.7	0.6
B119/LH185	4.9	0.0	38	0.7	-0.2	1.4	3.1	-0.2
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH283	14.1	0.0	23	0.2	0.2	1.4	22.7	-1.1
B110/NC386	-21.3	0.0	70	2.9	-0.2	-0.4	-52.3	-2.0
SGI912/BS26(S-H)C4)-207-1-1-1-1-01-01-01	-6.3	0.0	48	1.3	-2.5	-0.5	-19.6	-0.7
SGI912/BS26(S-H)C4)-255-1-1-1-1-01-01-01	8.1	0.0	34	1.7	-3.9	-0.5	1.3	-0.8
SGI912/BSKRL2(H1)C1-183-001-02-01-01-01-B	3.2	0.0	42	-1.1	-3.9	0.0	12.6	0.5
SGI912/TR7322	16.7	0.0	15	-0.7	-3.9	0.4	32.9	0.2
BS13(HI)C2)-6330:02-1-01-01-01/TR7322	9.3	0.0	32	-0.9	-3.9	-0.5	22.0	0.6
BS13(HI)C2)-6330:02-1-01-01-02/TR7322	5.8	0.0	36	0.2	-2.1	0.4	7.9	-0.1
B104/TR7322	-0.7	0.0	44	0.8	-3.9	-0.4	-6.9	-0.3
B110/TR7322	25.5	0.0	4	0.6	-1.6	0.0	39.2	-1.6
B127/TR7322	-17.1	0.0	66	-2.0	-1.1	2.0	-17.1	0.9
B119/TR7322	21.2	0.0	8	-0.6	-3.4	0.0	40.1	0.2
BS13(S)C8)-7312-1-1-2-01-01-01/TR7322	-3.2	0.0	46	0.1	-3.9	0.3	-6.6	-0.8
BS31(R)C0-246-1-01-01-01-01-B-B/TR7322	-13.2	0.0	61	-1.0	-3.9	-0.5	-16.5	0.7
BS13(S)C8)-7146-1-3-1-01-02-01/TR7322	13.4	0.0	24	0.8	-3.4	0.3	16.4	-0.4
Experiment Mean	129.4	28.7	.	19.1	5.6	2.8	206.3	57.0
Minimum Mean	-39.2	0.0	.	-2.5	-3.9	-0.7	-71.6	-2.0
Maximum Mean	35.5	0.0	.	3.7	26.0	2.3	56.9	1.2
BLUP SE	9.4	.	.	0.5	0.6	1.1	16.5	3.8
Genetic Variance	397.3	0.0	.	1.6	45.7	1.7	1342.0	0.9
Error Variance	195.6	0.1	.	0.5	39.6	10.8	586.9	1.0
Repeatability	0.80	-	.	0.87	0.70	0.24	0.82	0.63

Table 18. Agronomic data for single crosses grown near Atlantic, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs
B104/B116	-18.6	.	78	0.8	0.0	0.1	-35.9	0.1
B110/B116	8.6	.	17	0.8	0.0	0.1	8.4	-1.9
B119/B116	8.0	.	18	-0.8	0.1	0.1	19.5	-1.4
B127/B116	-14.0	.	75	-0.9	0.0	-0.2	-17.4	0.4
B129/B116	0.3	.	34	1.1	0.0	-0.2	-7.2	-0.5
BS13(S)C8)-7312-1-1-2-01-01-01/B116	-0.7	.	39	0.6	0.0	-0.2	-3.6	0.1
BS31(R)C0-246-1-01-01-01-01-B-B/B116	0.1	.	35	-1.3	0.2	0.1	9.6	2.2
NC432/B116	11.1	.	12	0.5	0.0	-0.2	14.7	-0.4
SGI912/B116	9.9	.	14	-1.3	0.1	-0.2	26.5	-0.8
TR7245/B116	17.9	.	4	-1.6	0.0	0.1	42.7	-1.6
FR3303/B116	4.5	.	28	0.8	0.0	0.1	1.4	-1.1
BS13(S)C7)-175-2-1-1-2-1-01-01-01/B116	-5.2	.	56	-1.3	0.0	0.3	0.1	2.7
B104/B117	-6.1	.	58	1.0	0.0	-0.2	-17.3	1.3
B110/B117	-1.3	.	42	2.2	0.0	0.1	-17.3	-0.7
B119/B117	7.9	.	19	-0.5	0.1	0.3	16.8	-0.8
B127/B117	-3.1	.	50	-0.4	0.0	-0.2	-2.0	1.0
B129/B117	-9.4	.	69	1.0	0.1	0.3	-22.2	1.0
SGI912/B117	11.4	.	10	-1.0	0.0	-0.2	26.9	0.3
SGI890/B117	8.8	.	16	0.8	0.0	-0.2	8.8	1.1
TR7245/B117	1.3	.	31	-1.0	0.0	-0.2	9.8	0.5
B104/B118	-14.3	.	76	1.3	0.0	-0.2	-32.2	1.3
B110/B118	-3.5	.	51	0.9	0.1	0.3	-12.3	0.2
B119/B118	13.2	.	8	-0.4	0.2	0.5	25.2	-1.3
B127/B118	-13.7	.	74	0.6	0.0	-0.2	-26.2	0.5
B129/B118	9.7	.	15	0.2	0.1	0.1	14.8	0.6
N196/B118	16.0	.	6	0.0	0.0	-0.2	26.8	0.2
SGI912/B118	-1.7	.	43	0.2	0.2	0.1	-4.5	-0.5
SGI890/B118	10.5	.	13	0.0	0.0	0.3	17.4	1.2
FR3303/B118	-5.1	.	55	1.2	0.0	0.3	-17.0	0.5
B104/B120	-3.8	.	52	0.5	0.0	-0.2	-9.5	0.5
B119/B120	11.2	.	11	2.4	0.0	0.1	0.7	-2.3
SGI912/B120	4.6	.	27	-0.1	0.0	0.1	8.3	-0.7
SGI890/B120	-1.2	.	41	1.9	0.0	-0.2	-15.3	-0.4
TR7245/B120	6.5	.	21	0.8	0.0	-0.2	4.6	-1.2
TR7245/B122	-13.6	.	72	-2.0	0.0	-0.2	-9.0	1.6
SGI890/B122	-2.4	.	47	0.3	0.0	-0.2	-6.1	1.1
B127/B125	-15.4	.	77	-1.3	0.0	-0.2	-16.6	2.4
SGI912/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	16.5	.	5	0.2	0.0	-0.2	26.0	0.6
B104/B97	-7.1	.	65	0.4	0.0	0.1	-14.6	0.3
B110/B97	-9.2	.	68	0.7	0.1	0.1	-20.4	-0.7
N196/B97	5.3	.	25	0.4	0.0	0.3	5.7	0.1
SGI890/B97	5.8	.	22	0.2	0.0	0.3	8.0	1.1
SGI912/B97	1.4	.	30	-1.4	0.1	0.1	12.8	-0.1
B119/B97	-2.9	.	49	-0.2	0.1	-0.2	-3.4	-1.2
SGI912/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	11.9	.	9	-1.0	0.0	-0.2	27.2	-0.7

Table 18. Agronomic data for single crosses grown near Atlantic, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs
TR7245/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	5.5	.	24	-0.2	0.0	-0.2	10.9	-0.4
B110/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	-0.9	.	40	2.6	0.0	-0.2	-19.9	-0.1
SGI912/BS32(R)C0-249-1-02-01-01-01-B-B	0.8	.	32	2.7	0.1	-0.2	-18.1	0.2
SGI912/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	-5.9	.	57	-1.2	0.0	0.1	-1.3	1.6
TR7245/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	-7.0	.	64	-1.8	0.1	0.1	0.9	1.9
B110/B131	-4.2	.	53	1.7	0.1	-0.2	-18.8	-0.7
SGI912/B131	-0.1	.	36	-1.4	0.0	0.1	9.8	1.8
TR7245/B131	-6.9	.	63	-2.3	0.0	-0.2	4.3	0.8
B131/LH198	-12.6	.	70	-1.9	0.0	-0.2	-8.0	2.5
FR3303/B131	-1.8	.	45	-1.4	0.0	0.1	7.4	2.0
B119/BSKRL2(H1)C1-183-001-02-01-01-01-B	-13.7	.	73	-1.2	0.1	1.2	-14.8	0.5
SGI912/BSKRL2(H1)C1-280-001-01-03-01-01-B	-0.3	.	37	-1.2	0.0	0.1	7.9	1.1
B73/Mo17	13.6	.	7	1.1	0.0	0.1	14.5	-1.0
LH244/LH295	-22.0	.	79	-1.2	0.0	-0.2	-29.0	2.2
DK57-01	-6.8	.	62	-2.2	0.0	1.0	4.0	-0.2
TR7245/TR7322	-2.6	.	48	-1.4	0.0	-0.2	6.0	-1.1
DKC53-33	-23.9	.	80	-2.7	0.0	-0.2	-23.1	0.9
RX715	32.6	.	1	-1.1	0.0	-0.2	63.6	0.4
DKC58-78	-6.7	.	61	-2.3	0.0	-0.2	4.5	0.2
B119/LH185	-6.3	.	60	0.5	0.2	0.8	-14.0	-3.4
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH283	24.2	.	2	0.7	0.0	0.1	34.8	-0.3
B110/NC386	18.1	.	3	3.4	0.0	0.1	3.1	-2.1
SGI912/BS26(S-H)C4)-207-1-1-1-1-01-01-01	-0.3	.	38	1.2	0.1	-0.2	-8.8	0.2
SGI912/BS26(S-H)C4)-255-1-1-1-1-01-01-01	0.6	.	33	2.0	0.0	-0.2	-13.0	0.0
SGI912/BSKRL2(H1)C1-183-001-02-01-01-01-B	-7.4	.	66	-1.4	0.0	-0.2	-2.6	0.5
SGI912/TR7322	-1.7	.	44	0.0	0.0	-0.2	-2.8	-0.4
BS13(HI)C2)-6330:02-1-01-01-01/TR7322	-2.0	.	46	0.6	0.0	0.1	-7.3	-2.4
BS13(HI)C2)-6330:02-1-01-01-02/TR7322	-6.3	.	59	1.1	0.0	0.1	-18.2	-2.6
B104/TR7322	5.8	.	23	2.2	0.0	-0.2	-6.6	-1.0
B110/TR7322	5.0	.	26	2.0	0.0	-0.2	-6.7	-2.5
B127/TR7322	-4.7	.	54	-1.7	0.0	-0.2	3.9	0.3
B119/TR7322	2.7	.	29	-1.6	0.0	-0.2	16.5	-2.3
BS13(S)C8)-7312-1-1-2-01-01-01/TR7322	-12.6	.	71	1.3	0.0	0.3	-29.8	-1.0
BS31(R)C0-246-1-01-01-01-01-B-B/TR7322	-8.6	.	67	-1.6	0.0	-0.2	-3.4	1.7
BS13(S)C8)-7146-1-3-1-01-02-01/TR7322	6.5	.	20	1.3	0.0	-0.2	1.5	-2.0
Experiment Mean	191.1	.	.	18.5	0.2	0.5	313.2	55.4
Minimum Mean	-23.9	.	.	-2.7	0.0	-0.2	-35.9	-3.4
Maximum Mean	32.6	.	.	3.4	0.2	1.2	63.6	2.7
BLUP SE	7.0	.	.	0.5	0.2	0.3	12.2	0.3
Genetic Variance	152.7	.	.	2.1	0.0	0.2	462.9	1.8
Error Variance	134.5	.	.	0.4	0.4	0.6	415.9	0.1
Repeatability	0.69	.	.	0.91	0.14	0.39	0.69	0.96

Table 19. Agronomic data for single crosses grown near Lewis, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value
					Root	Stalk	
Back to Table 1	bu/ac	x 1000		%	%	%	\$
B104/B116	-24.5	0.5	79	-0.4	-2.6	-1.0	-44.7
B110/B116	-13.0	0.2	72	-0.2	9.2	-1.4	-23.6
B119/B116	-0.6	0.0	41	-0.4	5.7	1.0	1.1
B127/B116	-6.9	-0.1	61	-0.7	-2.0	-0.2	-9.4
B129/B116	8.5	0.2	17	-0.1	-3.2	-1.0	16.2
BS13(S)C8)-7312-1-1-2-01-01-01/B116	-0.6	-1.3	42	0.4	-3.7	-1.4	-3.3
BS31(R)C0-246-1-01-01-01-01-B-B/B116	-3.8	-1.3	53	-0.8	-1.8	-0.5	-3.0
NC432/B116	-16.7	0.4	76	0.0	2.0	-1.4	-31.6
SGI912/B116	6.8	-1.3	24	-0.7	-3.7	-1.0	16.6
TR7245/B116	11.3	0.5	14	-1.1	-0.3	1.0	27.7
FR3303/B116	-10.7	-0.1	67	1.1	-3.1	0.2	-26.0
BS13(S)C7)-175-2-1-1-2-1-01-01-01/B116	-11.3	0.5	68	-1.1	15.3	-0.6	-16.1
B104/B117	-13.0	-1.5	71	1.3	0.6	1.8	-31.1
B110/B117	8.4	0.2	18	1.2	-3.1	-0.6	8.4
B119/B117	16.6	0.5	3	0.4	8.3	1.8	28.8
B127/B117	-15.0	-0.1	74	-0.3	-3.7	0.2	-27.0
B129/B117	-10.0	1.0	66	0.7	2.8	0.6	-22.6
SGI912/B117	15.8	-0.1	5	0.1	0.4	-1.0	29.2
SGI890/B117	15.2	-0.6	8	0.4	-1.3	-1.0	27.4
TR7245/B117	15.2	0.5	6	-0.2	-1.4	-0.6	29.9
B104/B118	-3.3	-0.3	50	1.5	11.2	-1.4	-14.4
B110/B118	4.2	1.4	31	1.4	4.5	-1.4	1.0
B119/B118	24.3	-1.0	1	0.2	3.7	1.6	44.9
B127/B118	9.3	0.0	16	0.0	-1.9	-0.2	17.4
B129/B118	7.2	0.4	23	0.8	-1.4	-0.2	8.9
N196/B118	-4.0	-0.3	54	0.4	-1.3	-0.2	-9.0
SGI912/B118	10.4	-0.8	15	0.1	-3.7	-0.1	18.9
SGI890/B118	-1.6	1.0	46	1.0	1.7	-0.6	-8.9
FR3303/B118	-5.1	-0.5	56	1.3	-1.8	-0.2	-16.7
B104/B120	-8.1	-1.0	62	1.4	-3.7	-0.5	-22.7
B119/B120	0.7	0.5	36	1.6	2.0	-0.6	-7.6
SGI912/B120	2.2	0.4	33	-0.5	-3.7	0.2	6.7
SGI890/B120	-1.5	-1.0	45	1.5	-1.9	-1.4	-11.2
TR7245/B120	-15.6	0.2	75	1.0	-3.7	-1.0	-34.3
TR7245/B122	0.8	-0.5	35	-0.9	-3.7	-1.4	6.4
SGI890/B122	7.2	-0.1	22	-0.2	-3.7	0.2	15.0
B127/B125	-2.7	-0.1	48	-1.0	-3.1	3.0	0.4
SGI912/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	-12.4	1.0	70	0.7	-0.9	-1.4	-27.3
B104/B97	-27.5	0.4	80	0.1	7.9	-1.0	-52.7
B110/B97	-9.1	1.5	64	0.4	8.2	-0.6	-19.4
N196/B97	-17.2	-0.3	78	0.2	-3.7	-1.0	-33.4
SGI890/B97	14.0	1.0	10	1.0	5.8	-0.6	20.2
SGI912/B97	7.6	-0.3	19	-1.0	0.5	-1.0	20.5
B119/B97	4.3	0.9	30	0.1	22.8	1.7	7.7
SGI912/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	12.4	0.7	11	-0.7	-2.6	-1.4	27.8

Table 19. Agronomic data for single crosses grown near Lewis, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value
					Root	Stalk	
Back to Table 1	bu/ac	x 1000		%	%	%	\$
TR7245/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	14.0	1.7	9	-0.4	-2.6	-0.6	29.0
B110/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	0.1	0.5	37	1.9	2.6	-1.4	-10.4
SGI912/BS32(R)C0-249-1-02-01-01-01-B-B	5.5	-2.6	27	1.7	-3.0	0.0	0.4
SGI912/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	7.3	-1.9	21	-0.7	2.6	-0.9	18.0
TR7245/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	16.0	1.4	4	-0.5	-3.2	2.7	33.3
B110/B131	-5.4	1.5	58	-0.1	6.7	-1.0	-9.7
SGI912/B131	-1.3	0.9	44	-0.6	-1.5	0.6	0.5
TR7245/B131	11.8	-0.5	13	-0.8	-3.7	1.6	27.3
B131/LH198	1.5	-2.9	34	-0.9	-3.7	-0.9	7.8
FR3303/B131	-3.3	0.0	51	-0.4	-2.5	-1.0	-4.2
B119/BSKRL2(H1)C1-183-001-02-01-01-01-B	3.1	0.2	32	-0.5	10.3	1.4	8.7
SGI912/BSKRL2(H1)C1-280-001-01-03-01-01-B	5.9	0.4	26	-1.1	-1.9	-1.4	17.4
B73/Mo17	-2.6	-0.6	47	0.4	-3.1	-0.6	-6.8
LH244/LH295	-13.1	0.7	73	-1.4	-2.0	0.2	-18.2
DK57-01	-4.2	0.5	55	-1.8	-3.7	0.6	2.0
TR7245/TR7322	7.5	1.0	20	-0.4	-2.6	0.9	16.8
DKC53-33	-6.8	0.9	60	-1.4	-3.7	-0.3	-5.4
RX715	19.3	-1.6	2	-1.0	-3.7	-0.1	42.8
DKC58-78	-0.4	-0.6	40	-1.4	-3.7	-0.2	7.4
B119/LH185	-3.6	-0.6	52	-0.7	9.9	2.0	-2.9
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH283	15.2	1.2	7	0.8	0.2	2.0	24.0
B110/NC386	-8.9	1.2	63	4.1	0.9	-0.2	-37.9
SGI912/BS26(S-H)C4)-207-1-1-1-1-01-01-01	-9.5	0.2	65	0.1	-1.9	-0.2	-18.9
SGI912/BS26(S-H)C4)-255-1-1-1-1-01-01-01	12.0	-1.6	12	0.0	-3.7	0.0	22.3
SGI912/BSKRL2(H1)C1-183-001-02-01-01-01-B	-12.0	0.5	69	-1.3	-2.0	1.8	-16.1
SGI912/TR7322	5.5	-1.3	28	-0.5	-3.7	0.8	13.2
BS13(HI)C2)-6330:02-1-01-01-01/TR7322	0.1	0.9	39	-0.2	-3.7	0.6	1.2
BS13(HI)C2)-6330:02-1-01-01-02/TR7322	-1.3	-0.5	43	-0.3	-1.8	0.3	-0.8
B104/TR7322	-5.3	0.2	57	-0.9	-0.6	-0.2	-5.7
B110/TR7322	4.5	0.0	29	0.1	-2.6	-0.2	8.0
B127/TR7322	0.1	-1.3	38	-0.8	-2.4	2.5	4.4
B119/TR7322	6.8	0.4	25	-0.8	2.7	2.2	17.7
BS13(S)C8)-7312-1-1-2-01-01-01/TR7322	-6.5	-0.1	59	0.4	-3.7	2.3	-14.4
BS31(R)C0-246-1-01-01-01-01-B-B/TR7322	-3.1	0.2	49	-0.6	-3.7	0.6	-3.0
BS13(S)C8)-7146-1-3-1-01-02-01/TR7322	-17.1	0.5	77	0.0	-3.7	0.6	-32.5
Experiment Mean	123.5	28.5	.	15.0	5.3	2.9	224.9
Minimum Mean	-27.5	-2.9	.	-1.8	-3.7	-1.4	-52.7
Maximum Mean	24.3	1.7	.	4.1	22.8	3.0	44.9
BLUP SE	7.4	0.6	.	0.4	3.4	1.2	13.8
Genetic Variance	164.1	1.3	.	1.1	36.8	2.8	628.2
Error Variance	152.2	1.2	.	0.3	32.6	6.1	503.1
Repeatability	0.68	0.68	.	0.89	0.69	0.48	0.71

Table 20. Agronomic data for single crosses grown near Boone, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs
B104/B116	5.3	0.3	34	0.0	0.0	0.0	1.3	-1
B110/B116	8.4	0.3	21	0.0	0.0	0.0	24.0	-1
B119/B116	6.6	0.3	30	0.0	0.0	0.0	1.0	9
B127/B116	-42.4	-3.8	80	0.0	0.1	0.0	-63.1	-2
B129/B116	11.0	0.3	11	0.0	0.0	0.0	11.2	-2
BS13(S)C8)-7312-1-1-2-01-01-01/B116	8.2	0.3	23	0.0	0.0	0.0	18.9	0
BS31(R)C0-246-1-01-01-01-01-B-B/B116	8.3	0.3	22	0.0	0.0	0.0	3.0	3
NC432/B116	7.3	0.3	26	0.0	0.0	0.0	11.7	-2
SGI912/B116	-3.3	0.3	55	0.0	0.0	0.0	7.0	0
TR7245/B116	8.7	0.3	18	0.0	0.0	0.0	8.1	2
FR3303/B116	6.6	0.3	28	0.0	0.0	0.0	0.1	-1
BS13(S)C7)-175-2-1-1-2-1-01-01-01/B116	23.9	0.3	1	0.0	0.0	0.0	32.5	4
B104/B117	16.7	0.3	6	0.0	0.0	0.0	24.9	3
B110/B117	-28.2	-5.6	78	0.0	0.0	0.0	-43.8	-2
B119/B117	15.4	0.3	8	0.0	0.0	0.0	38.6	-1
B127/B117	13.7	0.3	10	0.0	0.0	0.0	16.9	4
B129/B117	-12.9	0.3	67	0.0	0.0	0.0	-2.1	-1
SGI912/B117	6.2	0.3	31	0.0	0.0	0.0	7.4	-2
SGI890/B117	0.3	0.3	45	0.0	0.0	0.0	3.7	-1
TR7245/B117	9.9	0.3	15	0.0	0.0	0.0	9.9	1
B104/B118	6.0	0.3	32	0.0	0.0	0.0	13.6	-1
B110/B118	7.3	0.3	27	0.0	0.0	0.0	4.6	1
B119/B118	8.5	0.3	20	0.0	0.1	0.0	4.7	2
B127/B118	-19.3	-2.3	74	0.0	0.0	0.0	-22.2	-1
B129/B118	18.3	0.3	4	0.0	0.0	0.0	18.6	-2
N196/B118	-3.9	0.3	57	0.0	0.0	0.0	3.0	-1
SGI912/B118	16.3	0.3	7	0.0	0.0	0.0	12.0	7
SGI890/B118	-16.3	0.3	72	0.0	0.0	0.0	-14.8	-1
FR3303/B118	-8.7	0.3	63	0.0	0.0	0.0	-12.5	-2
B104/B120	6.6	0.3	29	0.0	0.1	0.0	7.9	0
B119/B120	1.6	0.3	42	0.0	0.0	0.0	-3.0	-1
SGI912/B120	8.9	0.3	17	0.0	0.0	0.0	12.8	2
SGI890/B120	2.1	0.3	40	0.0	0.0	0.0	1.0	0
TR7245/B120	-21.7	-1.0	75	0.0	0.0	0.0	-42.1	-3
TR7245/B122	-2.4	0.3	54	0.0	0.0	0.0	5.8	-1
SGI890/B122	10.0	0.3	14	0.0	0.0	0.0	17.2	1
B127/B125	-2.4	0.3	53	0.0	0.0	0.0	-15.2	-1
SGI912/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	-5.1	0.3	58	0.0	0.0	0.0	-9.2	-2
B104/B97	-3.9	0.3	56	0.0	0.0	0.0	1.5	-1
B110/B97	3.5	0.3	37	0.0	0.0	0.0	6.9	3
N196/B97	-5.6	0.3	59	0.0	0.0	0.0	-9.0	-1
SGI890/B97	-6.3	0.3	60	0.0	0.0	0.0	-14.5	-1
SGI912/B97	-10.6	0.3	65	0.0	0.0	0.0	-17.7	2
B119/B97	-34.9	-1.9	79	0.0	0.0	0.0	-47.2	-1
SGI912/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	17.5	0.3	5	0.0	0.0	0.0	39.2	-1

Table 20. Agronomic data for single crosses grown near Boone, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs
TR7245/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	2.6	0.3	39	0.0	0.0	0.0	3.8	1
B110/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	-14.1	0.3	69	0.0	0.0	0.0	-15.2	-1
SGI912/BS32(R)C0-249-1-02-01-01-01-B-B	1.3	0.3	43	0.0	0.0	0.0	10.5	-1
SGI912/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	-13.0	0.3	68	0.0	0.0	0.0	-24.8	-2
TR7245/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	10.7	0.3	12	0.0	0.0	0.0	17.3	0
B110/B131	10.6	0.3	13	0.0	0.0	0.0	11.3	-2
SGI912/B131	4.2	0.3	35	0.0	0.0	0.0	2.6	2
TR7245/B131	-10.0	0.3	64	0.0	0.0	0.0	-10.0	0
B131/LH198	-28.0	-1.7	77	0.0	0.0	0.0	-31.8	-1
FR3303/B131	8.6	0.3	19	0.0	0.0	0.0	4.8	-2
B119/BSKRL2(H1)C1-183-001-02-01-01-01-B	0.2	0.3	46	0.0	0.0	0.0	-6.5	0
SGI912/BSKRL2(H1)C1-280-001-01-03-01-01-B	9.6	0.3	16	0.0	0.0	0.0	0.9	1
B73/Mo17	-11.9	0.3	66	0.0	0.0	0.0	-19.2	-2
LH244/LH295	-0.5	0.3	48	0.0	0.0	0.0	8.6	-1
DK57-01	-1.3	0.3	51	0.0	0.0	0.0	-8.0	1
TR7245/TR7322	-7.7	0.3	62	0.0	0.0	0.0	-10.4	-2
DKC53-33	-7.3	0.3	61	0.0	0.0	0.0	-10.1	-1
RX715	13.8	0.3	9	0.0	0.0	0.0	18.4	3
DKC58-78	-18.4	-3.6	73	0.0	0.0	0.0	-20.8	-1
B119/LH185	21.0	0.3	2	0.0	0.0	0.0	31.9	-2
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH283	-0.3	0.3	47	0.0	0.0	0.0	-17.3	2
B110/NC386	1.2	0.3	44	0.0	0.0	0.0	5.4	0
SGI912/BS26(S-H)C4)-207-1-1-1-1-01-01-01	-0.9	0.3	49	0.0	0.0	0.0	5.3	-1
SGI912/BS26(S-H)C4)-255-1-1-1-1-01-01-01	3.8	0.3	36	0.0	0.0	0.0	10.6	-1
SGI912/BSKRL2(H1)C1-183-001-02-01-01-01-B	2.0	0.3	41	0.0	0.0	0.0	7.4	0
SGI912/TR7322	-1.0	0.3	50	0.0	0.0	0.0	-7.6	-1
BS13(HI)C2)-6330:02-1-01-01-01/TR7322	-2.0	0.3	52	0.0	0.1	0.0	-8.5	2
BS13(HI)C2)-6330:02-1-01-01-02/TR7322	3.3	0.3	38	0.0	0.0	0.0	-3.2	2
B104/TR7322	-23.4	-1.8	76	0.0	0.0	0.0	-35.8	-2
B110/TR7322	-15.7	0.3	71	0.0	0.0	0.0	-19.0	-1
B127/TR7322	7.7	0.3	25	0.0	0.0	0.0	10.7	0
B119/TR7322	7.8	0.3	24	0.0	0.0	0.0	11.7	3
BS13(S)C8)-7312-1-1-2-01-01-01/TR7322	-14.6	0.3	70	0.0	0.0	0.0	-6.9	0
BS31(R)C0-246-1-01-01-01-01-B-B/TR7322	20.9	0.3	3	0.0	0.0	0.0	30.7	-1
BS13(S)C8)-7146-1-3-1-01-02-01/TR7322	5.7	0.3	33	0.0	0.0	0.0	10.4	-1
Experiment Mean	191.9	26.8	.	25.8	0.4	1.5	246.1	56
Minimum Mean	-42.4	-5.6	.	0.0	0.0	0.0	-63.1	-3
Maximum Mean	23.9	0.3	.	0.0	0.1	0.0	39.2	9
BLUP SE	10.2	0.9	.	.	0.1	.	2.1	15.6
Genetic Variance	270.4	1.8	.	0.0	0.0	0.0	597.8	9
Error Variance	305.0	2.8	.	2.9	1.8	4.4	741.0	17
Repeatability	0.64	0.56	.	0.00	0.02	0.00	0.62	1

Table 21. Agronomic data for single crosses grown near Corning, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs
B104/B116	-1.7	.	47	-0.4	-0.7	0.0	-0.5	0
B110/B116	-5.7	.	58	0.4	1.4	0.0	-13.9	-1
B119/B116	4.7	.	24	-0.6	2.7	0.1	13.6	-2
B127/B116	-10.9	.	73	-1.0	-0.6	-0.1	-13.7	0
B129/B116	-14.9	.	78	0.3	-1.1	-0.2	-30.6	0
BS13(S)C8)-7312-1-1-2-01-01-01/B116	-5.5	.	55	2.5	-1.0	0.0	-28.3	0
BS31(R)C0-246-1-01-01-01-01-B-B/B116	-1.9	.	49	-0.8	1.2	0.2	2.2	1
NC432/B116	-4.7	.	52	0.2	0.1	0.2	-10.3	0
SGI912/B116	16.7	.	3	-0.9	1.8	0.1	39.2	-1
TR7245/B116	8.0	.	15	-1.6	0.0	0.0	27.8	-2
FR3303/B116	5.5	.	21	1.2	-0.3	-0.2	1.2	0
BS13(S)C7)-175-2-1-1-2-1-01-01-01/B116	-5.5	.	57	-1.0	2.3	0.2	-3.1	2
B104/B117	-8.8	.	65	1.0	-0.4	-0.2	-23.4	1
B110/B117	3.0	.	32	0.7	2.3	-0.1	0.5	0
B119/B117	-1.2	.	44	-0.3	1.8	0.2	0.1	-2
B127/B117	-10.0	.	71	-0.7	-0.8	-0.2	-14.2	2
B129/B117	-4.1	.	51	0.4	-0.7	-0.1	-10.5	1
SGI912/B117	11.3	.	8	-0.3	1.1	-0.2	24.0	0
SGI890/B117	6.3	.	19	0.9	-1.0	0.2	4.7	2
TR7245/B117	1.3	.	37	-0.7	0.4	-0.2	7.8	1
B104/B118	2.9	.	33	0.3	-0.6	0.1	3.7	1
B110/B118	-12.4	.	76	0.9	1.1	0.2	-32.8	0
B119/B118	-9.0	.	68	0.3	2.0	0.3	-19.4	-1
B127/B118	0.5	.	39	-1.3	-1.0	-0.1	10.4	1
B129/B118	-8.6	.	63	0.2	1.9	0.1	-17.8	0
N196/B118	-8.9	.	66	0.1	0.0	0.2	-17.3	0
SGI912/B118	9.7	.	10	-0.8	0.4	0.0	24.5	0
SGI890/B118	12.8	.	6	-0.2	1.5	0.1	25.9	1
FR3303/B118	-0.2	.	42	1.1	-0.7	0.0	-8.5	1
B104/B120	-10.1	.	72	1.7	-1.1	-0.3	-30.9	0
B119/B120	-7.1	.	61	3.4	-0.8	-0.2	-37.5	-3
SGI912/B120	-2.2	.	50	0.2	0.0	0.0	-5.3	-1
SGI890/B120	-1.6	.	46	1.0	-1.7	-0.3	-10.4	0
TR7245/B120	-0.4	.	43	0.7	-1.4	-0.1	-5.5	-1
TR7245/B122	7.0	.	16	-1.4	-0.8	-0.5	24.3	2
SGI890/B122	0.4	.	40	-0.1	-0.6	-0.1	1.5	2
B127/B125	-0.1	.	41	-0.5	-1.7	-0.2	3.7	2
SGI912/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	10.8	.	9	0.3	1.1	0.2	18.5	1
B104/B97	-11.5	.	74	1.2	3.4	0.4	-29.7	1
B110/B97	-1.9	.	48	0.7	3.0	0.3	-8.2	-1
N196/B97	3.4	.	30	-0.2	0.4	0.0	8.1	0
SGI890/B97	9.6	.	11	0.4	-1.0	-0.3	15.3	1
SGI912/B97	15.5	.	4	-1.1	-1.4	0.0	38.3	0
B119/B97	2.6	.	34	0.7	0.8	0.1	-0.4	-1
SGI912/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	5.1	.	22	-1.1	-0.8	0.0	18.0	0

Table 21. Agronomic data for single crosses grown near Corning, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs
TR7245/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	4.0	.	27	-0.5	0.5	-0.2	11.1	-1
B110/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	6.6	.	17	1.5	2.7	0.4	0.6	0
SGI912/BS32(R)C0-249-1-02-01-01-01-B-B	8.9	.	13	1.4	-0.3	0.1	6.3	1
SGI912/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	5.5	.	20	-0.8	3.4	0.6	16.8	2
TR7245/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	-6.8	.	60	-0.9	3.1	0.2	-6.3	1
B110/B131	0.6	.	38	2.2	-0.8	0.1	-15.4	-1
SGI912/B131	-5.4	.	54	-0.3	-1.5	-0.4	-8.0	1
TR7245/B131	4.8	.	23	-0.8	-1.1	0.0	15.1	1
B131/LH198	-1.6	.	45	-1.5	-1.0	0.0	8.5	2
FR3303/B131	-5.3	.	53	-0.9	-0.3	-0.1	-3.8	2
B119/BSKRL2(H1)C1-183-001-02-01-01-01-B	-12.3	.	75	-0.9	-1.1	0.4	-17.1	-1
SGI912/BSKRL2(H1)C1-280-001-01-03-01-01-B	11.6	.	7	-0.2	-1.4	0.0	22.9	1
B73/Mo17	-19.1	.	80	-0.3	-1.7	-0.3	-36.9	-2
LH244/LH295	2.1	.	35	-0.9	-1.4	0.2	10.9	2
DK57-01	6.5	.	18	-1.7	-1.1	0.2	25.6	-1
TR7245/TR7322	3.6	.	29	-1.5	-1.7	0.1	18.5	-1
DKC53-33	-12.5	.	77	-2.6	-1.4	0.2	-6.2	0
RX715	27.2	.	1	-0.8	-1.5	-0.3	58.8	0
DKC58-78	8.5	.	14	-1.8	-0.8	-0.5	30.1	-1
B119/LH185	-6.3	.	59	-0.2	9.6	0.3	-10.6	-3
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH283	14.8	.	5	0.1	1.2	-0.2	27.7	-1
B110/NC386	-8.7	.	64	4.8	-0.8	0.9	-50.2	-2
SGI912/BS26(S-H)C4)-207-1-1-1-1-01-01-01	-9.0	.	67	0.9	-1.0	-0.1	-23.5	1
SGI912/BS26(S-H)C4)-255-1-1-1-1-01-01-01	9.0	.	12	2.0	-1.1	0.0	1.7	0
SGI912/BSKRL2(H1)C1-183-001-02-01-01-01-B	3.6	.	28	-1.2	-1.5	-0.2	15.8	1
SGI912/TR7322	4.2	.	26	-0.8	-1.4	0.1	14.6	0
BS13(HI)C2)-6330:02-1-01-01-01/TR7322	-8.2	.	62	0.2	-1.7	-0.5	-17.0	-2
BS13(HI)C2)-6330:02-1-01-01-02/TR7322	3.2	.	31	1.4	-1.4	0.0	-4.4	-2
B104/TR7322	1.6	.	36	1.4	-0.4	0.1	-7.6	0
B110/TR7322	18.3	.	2	1.1	0.8	-0.1	25.6	-1
B127/TR7322	-18.7	.	79	-2.2	-1.1	0.2	-21.0	0
B119/TR7322	-9.2	.	70	-2.2	-1.4	-0.2	-2.3	-3
BS13(S)C8)-7312-1-1-2-01-01-01/TR7322	-5.5	.	56	1.6	-1.0	-0.1	-21.7	0
BS31(R)C0-246-1-01-01-01-01-B-B/TR7322	-9.2	.	69	-1.4	-1.7	-0.3	-7.7	2
BS13(S)C8)-7146-1-3-1-01-02-01/TR7322	4.6	.	25	0.1	-0.4	-0.1	8.0	-1
Experiment Mean	171.9	.	.	18.2	7.0	3.6	284.3	57
Minimum Mean	-19.1	.	.	-2.6	-1.7	-0.5	-50.2	-3
Maximum Mean	27.2	.	.	4.8	9.6	0.9	58.8	2
BLUP SE	6.4	.	.	0.5	3.2	0.6	11.8	0.3
Genetic Variance	118.0	.	.	1.8	13.3	0.4	533.9	2
Error Variance	116.1	.	.	0.5	86.6	4.4	351.7	0
Repeatability	0.67	.	.	0.89	0.23	0.15	0.75	0.95

Table 22. Agronomic data for single crosses grown near Davenport, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs
B104/B116	-16.0	0.0	72	1.2	0.0	-1.0	-36.9	-0.7
B110/B116	-19.0	0.0	76	0.9	0.0	-0.7	-40.0	-0.6
B119/B116	-6.7	0.0	56	-0.4	0.0	-0.7	-8.2	0.2
B127/B116	-18.0	0.0	75	-0.3	0.0	-1.0	-29.3	0.2
B129/B116	-8.0	0.0	62	0.2	0.0	-0.3	-15.6	-0.1
BS13(S)C8)-7312-1-1-2-01-01-01/B116	-7.8	0.0	61	1.6	0.0	1.1	-26.2	-1.0
BS31(R)C0-246-1-01-01-01-01-B-B/B116	-10.3	0.0	64	-1.3	0.0	-0.7	-8.1	0.9
NC432/B116	-11.0	0.0	66	0.2	0.0	-0.3	-20.9	-0.2
SGI912/B116	18.9	0.0	7	-0.9	0.0	-1.0	41.5	0.5
TR7245/B116	5.0	0.0	28	-0.7	0.0	0.1	14.5	0.4
FR3303/B116	3.6	0.0	32	0.9	0.0	-1.0	-1.5	-0.6
BS13(S)C7)-175-2-1-1-2-1-01-01-01/B116	-4.4	0.0	48	-1.2	0.0	-0.7	2.1	0.9
B104/B117	-24.7	0.0	78	0.8	0.0	-1.0	-49.0	-0.4
B110/B117	-21.9	0.0	77	0.7	0.0	-0.7	-43.6	-0.5
B119/B117	-4.7	0.0	49	0.4	0.0	0.1	-11.7	-0.4
B127/B117	-17.8	0.0	74	0.1	0.0	-1.0	-31.8	0.1
B129/B117	-5.3	0.0	53	1.0	0.0	-0.3	-17.3	-0.7
SGI912/B117	3.3	0.0	33	-0.7	0.0	-1.0	11.9	0.3
SGI890/B117	16.5	0.0	10	-0.5	0.0	-0.7	33.6	0.4
TR7245/B117	-5.9	0.0	55	-1.3	0.0	0.4	-0.3	0.8
B104/B118	-24.8	0.0	79	0.5	0.0	1.5	-47.3	-0.3
B110/B118	-8.4	0.0	63	-0.4	0.0	0.1	-13.0	0.4
B119/B118	4.3	0.0	30	-0.5	0.0	-0.3	11.4	0.2
B127/B118	-14.6	0.0	71	-0.5	0.0	-0.7	-21.8	0.3
B129/B118	2.1	0.0	34	1.5	0.0	-0.7	-9.1	-1.0
N196/B118	5.1	0.0	27	0.0	0.0	1.5	8.9	-0.1
SGI912/B118	19.1	0.0	6	-0.4	0.0	-0.7	37.3	0.2
SGI890/B118	17.7	0.0	8	-1.0	0.0	-1.0	39.5	0.8
FR3303/B118	-5.0	0.0	50	0.3	0.0	-1.0	-11.3	-0.2
B104/B120	-14.2	0.0	70	0.9	0.0	-1.0	-31.5	-0.4
B119/B120	-0.5	0.0	37	1.9	0.0	-0.3	-16.5	-1.2
SGI912/B120	8.6	0.0	21	-0.5	0.0	0.1	19.1	0.3
SGI890/B120	13.7	0.0	12	1.2	0.0	-1.0	13.4	-0.8
TR7245/B120	4.5	0.0	29	0.3	0.0	0.8	5.0	-0.2
TR7245/B122	1.0	0.0	36	-1.1	0.0	-1.0	11.2	0.7
SGI890/B122	7.6	0.0	22	0.6	0.0	-1.0	8.6	-0.3
B127/B125	-10.7	0.0	65	-1.8	0.0	0.8	-5.2	1.3
SGI912/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	10.4	0.0	17	0.8	0.0	-1.0	11.5	-0.6
B104/B97	-4.4	0.0	47	1.1	0.0	-0.7	-16.1	-0.5
B110/B97	-12.3	0.0	69	1.5	0.0	1.1	-33.1	-0.9
N196/B97	-0.7	0.0	39	0.2	0.0	-0.3	-2.6	-0.2
SGI890/B97	11.9	0.0	16	0.6	0.0	0.1	15.6	-0.4
SGI912/B97	6.6	0.0	24	-0.1	0.0	-0.7	12.6	0.0
B119/B97	-7.7	0.0	60	0.6	0.0	1.5	-17.9	-0.4
SGI912/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	13.4	0.0	13	-0.1	0.0	-1.0	24.5	0.0

Table 22. Agronomic data for single crosses grown near Davenport, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs
TR7245/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	6.0	0.0	25	-0.2	0.0	-1.0	12.3	0.2
B110/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	-33.8	0.0	80	2.9	0.0	1.1	-78.8	-1.8
SGI912/BS32(R)C0-249-1-02-01-01-01-B-B	5.5	0.0	26	1.8	0.0	-0.7	-5.6	-1.0
SGI912/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	-1.5	0.0	42	-0.6	0.0	-0.7	2.2	0.4
TR7245/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	-3.9	0.0	46	-2.1	0.0	-0.7	10.1	1.4
B110/B131	-6.7	0.0	57	0.9	0.0	-0.7	-18.4	-0.6
SGI912/B131	-3.9	0.0	45	-1.1	0.0	0.8	1.9	0.7
TR7245/B131	-2.0	0.0	43	-1.8	0.0	-1.0	10.8	1.1
B131/LH198	-5.3	0.0	52	-2.4	0.0	-1.0	9.9	1.6
FR3303/B131	3.7	0.0	31	-1.8	0.0	-0.7	21.0	1.2
B119/BSKRL2(H1)C1-183-001-02-01-01-01-B	-12.3	0.0	68	-0.9	0.0	3.3	-14.8	0.6
SGI912/BSKRL2(H1)C1-280-001-01-03-01-01-B	-0.8	0.0	40	0.2	0.0	-0.7	-3.4	-0.2
B73/Mo17	-0.6	0.0	38	0.7	0.0	0.8	-6.2	-0.5
LH244/LH295	1.1	0.0	35	-2.3	0.0	-0.7	20.9	1.5
DK57-01	16.9	0.0	9	-2.7	0.0	0.8	54.0	1.7
TR7245/TR7322	13.1	0.0	14	-0.6	0.0	0.1	27.8	0.3
DKC53-33	-7.1	0.0	58	-2.3	0.0	-0.7	5.4	1.4
RX715	29.1	0.0	2	-0.7	0.0	-0.3	57.5	0.4
DKC58-78	26.1	0.0	3	-2.1	0.0	-0.3	65.0	1.3
B119/LH185	-2.4	0.0	44	0.4	0.0	4.8	-7.4	-0.5
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH283	32.1	0.0	1	0.8	0.0	0.4	48.2	-0.6
B110/NC386	10.2	0.0	18	4.8	0.0	1.5	-24.1	-3.0
SGI912/BS26(S-H)C4)-207-1-1-1-1-01-01-01	20.0	0.0	5	0.8	0.0	-1.0	28.0	-0.6
SGI912/BS26(S-H)C4)-255-1-1-1-1-01-01-01	13.8	0.0	11	1.7	0.0	0.1	9.2	-1.1
SGI912/BSKRL2(H1)C1-183-001-02-01-01-01-B	-11.1	0.0	67	-1.4	0.0	-0.7	-8.9	0.9
SGI912/TR7322	9.5	0.0	19	0.7	0.0	1.1	10.9	-0.5
BS13(HI)C2)-6330:02-1-01-01-01/TR7322	-1.3	0.0	41	-0.2	0.0	-1.0	-0.6	0.0
BS13(HI)C2)-6330:02-1-01-01-02/TR7322	12.1	0.0	15	0.9	0.0	-1.0	13.4	-0.6
B104/TR7322	7.4	0.0	23	0.8	0.0	-0.7	6.5	-0.5
B110/TR7322	22.8	0.0	4	1.4	0.0	-0.7	27.0	-1.0
B127/TR7322	-7.4	0.0	59	-0.9	0.0	4.8	-6.2	0.5
B119/TR7322	-5.4	0.0	54	0.2	0.0	6.2	-11.2	-0.2
BS13(S)C8)-7312-1-1-2-01-01-01/TR7322	-16.5	0.0	73	0.5	0.0	4.8	-33.3	-0.4
BS31(R)C0-246-1-01-01-01-01-B-B/TR7322	-5.1	0.0	51	-1.8	0.0	-0.7	5.2	1.2
BS13(S)C8)-7146-1-3-1-01-02-01/TR7322	9.2	0.0	20	0.1	0.0	0.1	15.1	-0.2
Experiment Mean	174.8	31.0	.	19.2	0.6	1.7	279.7	56.7
Minimum Mean	-33.8	0.0	.	-2.7	0.0	-1.0	-78.8	-3.0
Maximum Mean	32.1	0.0	.	4.8	0.0	6.2	65.0	1.7
BLUP SE	7.1	0.0	.	0.5	.	1.2	12.0	0.3
Genetic Variance	214.8	0.0	.	1.8	0.0	3.6	786.9	0.8
Error Variance	122.0	0.0	.	0.4	4.5	4.9	327.5	0.2
Repeatability	0.78	0.00	.	0.89	0.00	0.59	0.83	0.89

Table 23. Agronomic data for single crosses grown near Rochelle, Illinois.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs
B104/B116	-12.3	-0.7	74	1.3	0.5	.	-31.1	-0.5
B110/B116	-11.4	0.1	70	1.7	29.9	.	-30.6	-0.5
B119/B116	3.0	-1.1	35	0.6	47.3	.	2.3	-0.6
B127/B116	-5.9	0.2	55	-0.9	29.6	.	-7.2	0.3
B129/B116	-3.6	0.2	52	1.5	4.0	.	-15.2	-1.0
BS13(S)C8)-7312-1-1-2-01-01-01/B116	-7.8	0.2	63	2.1	-6.5	.	-25.8	0.0
BS31(R)C0-246-1-01-01-01-01-B-B/B116	-8.4	0.2	65	-1.4	7.5	.	-10.9	0.7
NC432/B116	0.5	0.2	39	2.2	0.5	.	-9.9	0.0
SGI912/B116	17.7	0.1	1	-2.3	29.4	.	47.9	-0.5
TR7245/B116	13.7	0.2	3	-2.0	-7.0	.	37.9	-0.7
FR3303/B116	0.2	0.2	41	3.2	-3.5	.	-16.6	-0.1
BS13(S)C7)-175-2-1-1-2-1-01-01-01/B116	10.7	0.2	9	-2.6	18.6	.	35.6	0.4
B104/B117	-14.2	-0.2	77	4.3	4.0	.	-46.1	-1.1
B110/B117	-9.1	0.2	66	3.5	29.6	.	-33.6	-0.4
B119/B117	-6.7	-0.3	58	2.1	44.1	.	-23.8	-0.9
B127/B117	-16.5	0.2	78	-1.5	-14.1	.	-26.7	0.6
B129/B117	-2.0	0.0	51	2.8	-17.6	.	-18.5	0.2
SGI912/B117	10.8	0.2	8	-2.5	36.6	.	34.8	0.4
SGI890/B117	1.6	0.1	36	2.0	25.8	.	-7.6	0.9
TR7245/B117	10.1	0.2	13	-1.9	4.5	.	30.4	0.6
B104/B118	-12.8	0.1	75	2.0	0.4	.	-34.6	0.4
B110/B118	0.0	0.0	43	0.0	0.0	.	0.0	0.0
B119/B118	-11.6	-0.4	71	1.0	40.5	.	-27.1	-0.7
B127/B118	-6.2	0.2	56	-1.1	0.5	.	-7.6	0.2
B129/B118	-1.8	0.0	50	2.5	-17.6	.	-16.8	-0.8
N196/B118	3.4	0.1	32	2.0	-3.3	.	-4.9	0.0
SGI912/B118	13.4	0.1	4	-1.9	25.1	.	39.0	-0.5
SGI890/B118	3.4	0.1	33	1.4	0.3	.	-1.4	0.4
FR3303/B118	-1.6	0.2	49	0.6	-14.1	.	-6.6	-1.0
B104/B120	-19.7	-0.3	79	1.6	-17.6	.	-45.7	0.3
B119/B120	-0.9	0.2	48	1.5	-3.0	.	-10.2	0.1
SGI912/B120	3.5	0.2	30	-2.0	0.5	.	16.3	0.4
SGI890/B120	-7.1	-0.3	60	1.6	-10.3	.	-22.3	0.3
TR7245/B120	-12.2	0.2	73	0.7	0.5	.	-27.6	-0.1
TR7245/B122	6.3	0.2	24	-1.9	-17.6	.	22.1	1.1
SGI890/B122	1.5	0.1	37	-0.6	-14.0	.	5.4	0.4
B127/B125	-7.3	0.2	61	-2.5	0.5	.	-3.2	1.4
SGI912/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	10.7	0.2	10	-1.3	-3.5	.	28.0	0.7
B104/B97	-6.3	0.2	57	3.3	-7.0	.	-29.0	-0.3
B110/B97	-8.1	-0.7	64	3.1	29.6	.	-30.5	0.1
N196/B97	8.9	0.2	17	1.5	4.0	.	8.3	-0.1
SGI890/B97	0.5	0.2	40	3.6	8.0	.	-18.6	-0.1
SGI912/B97	10.3	0.0	11	-2.7	7.6	.	35.1	-0.3
B119/B97	-0.7	0.0	47	1.4	43.9	.	-9.6	-0.5
SGI912/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	12.0	-0.2	6	-1.6	-10.3	.	32.4	-0.5

Table 23. Agronomic data for single crosses grown near Rochelle, Illinois.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight
					Root	Stalk		
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs
TR7245/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	4.4	0.2	26	0.4	0.5	.	5.5	-0.5
B110/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	-0.7	0.2	46	4.0	-3.5	.	-19.0	-0.1
SGI912/BS32(R)C0-249-1-02-01-01-01-B-B	5.8	-0.4	25	0.6	-14.2	.	7.4	-0.1
SGI912/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	6.4	0.2	23	-1.9	8.0	.	22.3	0.2
TR7245/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	10.0	0.2	15	-3.0	18.6	.	36.0	0.2
B110/B131	-9.3	-1.7	68	3.2	11.5	.	-33.1	-1.4
SGI912/B131	7.3	0.2	20	-3.0	-14.1	.	30.4	0.6
TR7245/B131	14.5	0.2	2	-1.6	-14.1	.	37.2	0.5
B131/LH198	-4.3	0.2	53	-2.3	-3.0	.	-1.5	0.9
FR3303/B131	-11.2	0.1	69	-1.4	-17.6	.	-16.5	0.9
B119/BSKRL2(H1)C1-183-001-02-01-01-01-B	-6.7	0.2	59	-0.7	33.1	.	-10.8	0.3
SGI912/BSKRL2(H1)C1-280-001-01-03-01-01-B	10.0	-0.3	14	-3.1	-10.3	.	36.5	0.5
B73/Mo17	-7.5	0.1	62	-0.4	-14.1	.	-13.6	-1.3
LH244/LH295	-0.3	-0.1	45	-4.4	-17.6	.	21.2	0.6
DK57-01	3.4	0.2	31	-4.9	-14.1	.	32.2	-0.1
TR7245/TR7322	6.5	0.2	22	-1.0	-17.6	.	17.5	-0.4
DKC53-33	-0.1	-0.1	44	-5.5	-17.6	.	27.1	0.8
RX715	11.8	0.2	7	-1.8	-14.1	.	32.9	0.1
DKC58-78	10.2	0.2	12	-3.4	-17.6	.	38.9	0.1
B119/LH185	9.3	0.2	16	-1.5	15.1	.	25.3	-0.6
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH283	8.9	-0.2	18	1.2	-10.4	.	10.0	-0.5
B110/NC386	-21.8	0.2	80	4.7	-17.6	.	-62.1	0.6
SGI912/BS26(S-H)C4)-207-1-1-1-1-01-01-01	4.2	0.1	28	0.1	0.5	.	7.5	0.1
SGI912/BS26(S-H)C4)-255-1-1-1-1-01-01-01	1.0	-1.1	38	0.8	-10.6	.	-3.0	0.4
SGI912/BSKRL2(H1)C1-183-001-02-01-01-01-B	4.3	-0.6	27	-3.5	-2.9	.	26.5	0.7
SGI912/TR7322	7.1	-0.1	21	-3.0	-17.6	.	30.6	0.1
BS13(HI)C2)-6330:02-1-01-01-01/TR7322	3.3	0.1	34	0.2	-8.6	.	5.6	0.1
BS13(HI)C2)-6330:02-1-01-01-02/TR7322	-9.3	0.2	67	1.2	-17.6	.	-24.7	-0.9
B104/TR7322	-13.7	0.2	76	4.1	-17.6	.	-45.7	0.2
B110/TR7322	0.1	0.2	42	1.7	-14.1	.	-9.6	-1.2
B127/TR7322	-11.7	-0.1	72	-1.2	-17.6	.	-18.8	0.4
B119/TR7322	8.0	0.2	19	1.6	-17.6	.	6.7	-0.8
BS13(S)C8)-7312-1-1-2-01-01-01/TR7322	3.7	0.2	29	2.1	-17.6	.	-4.5	0.7
BS31(R)C0-246-1-01-01-01-01-B-B/TR7322	-4.8	-0.7	54	-2.9	-17.6	.	4.0	0.4
BS13(S)C8)-7146-1-3-1-01-02-01/TR7322	13.2	-0.5	5	0.1	-17.6	.	25.2	-0.2
Experiment Mean	125.8	35.1	.	25.7	24.3	.	154.0	53.7
Minimum Mean	-21.8	-1.7	.	-5.5	-17.6	.	-62.1	-1.4
Maximum Mean	17.7	0.2	.	4.7	47.3	.	47.9	1.4
BLUP SE	10.0	0.5	.	0.9	11.6	.	0.6	19.9
Genetic Variance	178.6	0.4	.	6.4	456.3	.	1045.3	0.8
Error Variance	408.3	1.8	.	1.6	350.5	.	1129.8	1.7
Repeatability	0.47	0.32	.	0.89	0.72	.	0.65	0.47

Table 24. Agronomic data for single crosses grown in Experiment 3.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight	Ear Height
					Root	Stalk			
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs	in
B104/B116	-13.1	-0.2	75	0.6	0.0	-1.0	-27.6	-0.6	1.1
B110/B116	-9.3	-0.3	68	0.5	6.5	-1.0	-20.0	-1.0	0.8
B119/B116	2.7	-0.3	31	-0.2	7.6	0.1	5.9	0.6	3.7
B127/B116	-25.6	-0.2	80	-0.4	1.3	-0.4	-41.2	-0.1	2.0
B129/B116	-1.5	0.2	44	0.0	-1.1	0.2	-3.1	-0.6	-0.4
BS13(S)C8)-7312-1-1-2-01-01-01/B116	-10.9	0.0	72	1.0	-1.3	-0.9	-26.7	-0.6	0.9
BS31(R)C0-246-1-01-01-01-01-B-B/B116	-6.5	0.0	57	-0.8	-0.1	0.5	-5.9	1.3	2.2
NC432/B116	-2.5	0.1	47	0.5	-0.5	0.6	-8.5	-0.4	2.2
SGI912/B116	14.2	0.0	5	-1.1	2.8	0.2	33.3	-0.5	1.2
TR7245/B116	11.6	0.1	8	-1.0	0.1	0.2	28.3	-0.3	0.8
FR3303/B116	-2.3	0.1	46	1.1	-1.4	-1.1	-13.1	-0.6	-2.5
BS13(S)C7)-175-2-1-1-2-1-01-01-01/B116	-3.1	0.1	51	-1.0	3.7	0.0	0.3	1.7	-0.9
B104/B117	-13.9	-0.2	77	1.2	0.0	-1.1	-32.9	0.7	0.7
B110/B117	-8.6	0.0	66	1.8	2.9	-0.6	-27.3	-0.5	2.4
B119/B117	1.7	0.1	34	0.1	6.5	2.7	2.4	-0.9	7.5
B127/B117	-8.5	0.2	65	-0.4	-2.1	0.4	-12.4	1.2	3.2
B129/B117	-2.9	-0.4	50	0.5	-1.9	0.3	-8.6	0.1	0.7
SGI912/B117	10.7	0.0	12	-0.5	2.4	-0.9	22.8	-0.4	-0.7
SGI890/B117	11.0	0.0	10	0.6	2.0	-1.3	14.9	0.5	5.8
TR7245/B117	10.9	0.2	11	-0.9	1.3	-0.8	25.9	0.9	0.3
B104/B118	-11.8	0.0	73	1.0	3.1	-1.0	-27.3	0.0	1.5
B110/B118	-8.0	0.2	64	1.3	3.2	-0.2	-24.3	-0.2	2.0
B119/B118	1.1	0.1	37	0.3	7.0	2.6	0.6	-0.3	6.2
B127/B118	-10.8	0.0	71	-0.3	-0.7	0.1	-16.3	0.3	3.5
B129/B118	7.0	0.0	19	0.9	-1.8	0.8	5.3	-0.4	1.4
N196/B118	4.0	0.0	28	0.2	-0.7	0.1	5.9	0.1	1.5
SGI912/B118	14.3	-0.1	4	-0.5	1.8	-0.9	27.7	1.0	-1.7
SGI890/B118	13.3	0.2	6	0.0	0.4	-0.9	24.1	0.3	5.1
FR3303/B118	-4.4	0.0	53	0.6	-1.6	-0.6	-12.1	-0.5	-3.1
B104/B120	-17.0	-0.2	79	1.2	-2.7	-1.5	-38.1	0.1	0.9
B119/B120	-2.7	0.2	49	2.1	-0.7	0.9	-21.5	-1.2	3.1
SGI912/B120	6.2	0.0	22	-0.2	-0.5	-0.7	10.9	0.2	2.2
SGI890/B120	2.7	0.0	30	1.3	-2.2	-1.6	-5.9	-0.1	1.5
TR7245/B120	-1.6	0.1	45	0.9	-1.1	-1.2	-8.6	-0.7	3.5
TR7245/B122	-1.1	0.0	43	-1.6	-2.7	-0.7	10.1	1.0	-3.4
SGI890/B122	6.5	-0.1	20	-0.3	-2.0	-1.2	13.7	1.0	-1.6
B127/B125	-12.8	0.1	74	-0.8	-1.6	1.0	-17.0	1.3	2.2
SGI912/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	11.5	0.0	9	0.2	-0.1	1.7	18.1	0.1	0.2
B104/B97	-13.9	0.1	78	0.9	0.8	0.0	-31.6	-0.4	0.6
B110/B97	-13.3	-0.1	76	1.3	5.6	0.8	-32.3	-0.1	3.0
N196/B97	-0.8	0.1	42	0.2	-0.5	0.6	-3.6	-0.3	2.4
SGI890/B97	7.6	0.1	18	1.0	3.7	-0.8	5.8	-0.1	2.4
SGI912/B97	10.2	-0.1	15	-1.1	0.1	-0.9	27.0	0.3	-0.8
B119/B97	-0.6	0.0	41	0.5	8.0	1.7	-3.5	-1.0	3.2
SGI912/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	15.6	0.2	3	-0.8	-1.1	-1.1	34.2	-0.5	2.2

Table 24. Agronomic data for single crosses grown in Experiment 3.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight	Ear Height
					Root	Stalk			
Back to Table 1	bu/ac	x 1000		%	%	%	\$	lbs	in
TR7245/2/B97/B95)-069-1-1-1-1-2-2-01-01-01	12.5	0.0	7	-0.2	-1.0	-1.2	24.1	-0.1	3.8
B110/2/B97/B99)-010-1-2-2-1-1-1-1-01-01-B	-6.8	0.1	60	2.4	1.7	2.9	-29.5	-0.6	4.2
SGI912/BS32(R)C0-249-1-02-01-01-01-B-B	-0.3	-0.2	40	1.2	-1.5	-0.3	-10.1	-0.1	-2.2
SGI912/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	2.1	-0.4	32	-0.7	1.5	-1.2	9.0	0.2	-5.1
TR7245/BSCB1(R)C12)-0095-1-1-1-1-1-01-01-01	6.1	0.3	23	-1.3	2.0	0.7	21.8	1.0	-3.5
B110/B131	-2.7	0.1	48	1.3	2.2	0.2	-14.3	-0.8	-0.9
SGI912/B131	1.2	0.1	36	-1.0	-1.7	-1.1	8.8	1.3	-2.1
TR7245/B131	2.1	-0.1	33	-1.3	-2.2	1.9	14.3	0.8	-2.4
B131/LH198	-9.5	-0.6	69	-1.7	-1.8	-0.8	-3.9	1.4	0.2
FR3303/B131	-6.6	0.0	58	-0.8	-2.6	-0.7	-5.6	0.9	-5.4
B119/BSKRL2(H1)C1-183-001-02-01-01-01-B	-9.2	0.1	67	-0.8	3.1	4.9	-10.4	0.3	2.5
SGI912/BSKRL2(H1)C1-280-001-01-03-01-01-B	6.5	0.2	21	-0.7	-0.9	-1.6	16.0	0.9	-2.5
B73/Mo17	-7.8	0.1	62	0.2	-2.3	-0.6	-14.7	-1.1	2.0
LH244/LH295	-5.9	0.0	56	-2.0	-1.9	-0.8	4.3	1.3	-8.0
DK57-01	5.6	0.2	24	-2.5	-2.4	0.7	29.0	0.5	-7.4
TR7245/TR7322	10.3	0.1	14	-0.9	-1.7	0.1	26.1	-0.5	-1.7
DKC53-33	-6.7	0.3	59	-2.3	-2.9	-1.3	5.5	0.5	-8.7
RX715	26.5	0.0	1	-0.9	-2.4	-0.3	55.0	0.9	-4.1
DKC58-78	10.2	-0.2	16	-2.0	-2.9	-2.3	34.8	0.2	-6.2
B119/LH185	1.3	-0.1	35	0.0	4.7	4.1	1.1	-1.8	-1.7
BSKRL1(HI)C1-054-1-02-01-02-01-B/LH283	17.28	-0.04	2	0.64	-0.8	1.76	24.72	-0.1	-2.3
B110/NC386	-10.1	0.1	70	4.3	-2.1	0.7	-48.6	-1.7	0.1
SGI912/BS26(S-H)C4)-207-1-1-1-1-01-01-01	-5.2	-0.1	54	0.6	-0.3	-1.1	-14.4	-0.1	0.5
SGI912/BS26(S-H)C4)-255-1-1-1-1-01-01-01	4.6	-0.5	25	1.2	-1.8	1.2	-1.2	-0.2	2.8
SGI912/BSKRL2(H1)C1-183-001-02-01-01-01-B	-4.0	-0.2	52	-1.5	-0.7	0.3	3.4	0.4	-1.4
SGI912/TR7322	10.4	-0.2	13	-0.5	-2.9	-0.8	22.1	-0.2	-4.6
BS13(HI)C2)-6330:02-1-01-01-01/TR7322	0.7	0.1	39	-0.1	-2.0	-1.1	2.1	-0.3	-2.2
BS13(HI)C2)-6330:02-1-01-01-02/TR7322	2.8	0.2	29	0.4	-2.5	-0.2	1.5	-0.6	-2.6
B104/TR7322	-5.4	-0.1	55	0.9	-2.4	-1.4	-15.0	-0.5	-4.3
B110/TR7322	9.9	0.2	17	1.0	-1.6	-0.5	9.4	-1.5	-0.2
B127/TR7322	-7.2	0.2	61	-1.4	-2.5	1.3	-2.2	0.4	0.7
B119/TR7322	4.5	0.1	26	-0.6	-2.2	3.5	12.0	-0.4	2.4
BS13(S)C8)-7312-1-1-2-01-01-01/TR7322	-8.0	0.1	63	0.5	-2.5	0.9	-17.9	-0.5	-3.0
BS31(R)C0-246-1-01-01-01-01-B-B/TR7322	0.9	0.1	38	-1.1	-3.0	-0.2	9.3	0.7	-3.2
BS13(S)C8)-7146-1-3-1-01-02-01/TR7322	4.2	0.1	27	0.2	-2.4	-0.5	5.6	-0.7	-2.1
Experiment Mean	157.3	29.2	.	19.0	4.6	3.8	252.6	56.3	48.8
Minimum Mean	-25.6	-0.6	.	-2.5	-3.0	-2.3	-48.6	-1.8	-8.7
Maximum Mean	26.5	0.3	.	4.3	8.0	4.9	55.0	1.7	7.5
BLUP SE	3.9	0.2	.	0.3	1.9	0.9	7.2	0.5	1.2

Table 24. Agronomic data for single crosses grown in Experiment 3.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Adjusted Value	Test Weight	Ear Height
					Root	Stalk			
Back to Table 1	bu/ac	x 1000	.	%	%	%	\$	lbs	in
Genetic Variance	101.0	0.1	.	1.4	11.1	2.7	464.7	0.8	11.7
Genetic Variance Upper Limit	150.6	0.3	.	2.0	18.8	4.4	679.4	1.3	17.3
Genetic Variance Lower Limit	72.4	0.0	.	1.0	7.3	1.8	338.0	0.5	8.5
G X E Variance	96	0	.	0	38	7	296	1	0
G X E Variance Upper Limit	123	1	.	1	45	8	378	2	88210
G X E Variance Lower Limit	77.29	0.13	.	0.40	32.08	5.23	238.30	1.05	0.06
Error Variance	227.7	3.5	.	0.8	52.7	16.2	703.5	2.9	11.83
Error Variance Upper Limit	249.4	3.8	.	0.9	57.8	17.7	770.7	3.3	13.92
Error Variance Lower Limit	208.6	3.2	.	0.8	48.2	14.8	644.7	2.7	10.18
Number of environments	13.0	13.0	.	13.0	12.0	12.0	13.0	9.0	4
Number of replications	2.0	2.0	.	2.0	2.0	2.0	2.0	2.0	2
Repeatability	0.9	0.4	.	1.0	0.7	0.7	0.9	0.7	0.88

Table 23. Agronomic data for inbred lines evaluated near Ames, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Protein	Oil	Starch	Density	Silk Date	Cob Color
					Root	Stalk						
Back to Table 1	bu/ac	x 1000		%	%	%	%	%	%		DAP	
B73	11.9	1.5	7	0.2	-0.7	-1.0	0.1	0.0	-0.3	0.000	1	1
B84	5.0	0.3	12	1.0	-1.1	3.8	0.2	-0.1	0.0	0.000	2	2
B90	0.0	-7.3	20	0.0	-2.7	-0.6	0.1	0.1	-0.2	0.000	4	1
B91	-15.0	-3.6	39	-2.0	0.6	0.5	0.7	0.0	-0.9	0.000	0	1
B97	0.3	-1.7	18	0.3	10.0	-1.4	-0.1	0.1	-0.4	0.000	0	1
B99	-4.0	-5.8	23	-0.2	2.8	-1.2	-0.5	0.0	0.4	0.000	3	1
B100	-3.6	2.4	22	-0.5	-2.7	0.9	-0.8	0.1	0.6	0.000	-3	3
B101	-14.9	2.8	38	1.5	-2.7	4.9	-0.2	0.0	0.2	0.000	9	1
B102	-7.4	1.5	28	-1.4	-2.7	2.2	-0.2	-0.1	0.3	0.000	-1	3
B103	1.7	2.0	17	-1.6	-2.7	-1.3	0.3	0.0	-0.2	0.000	-2	1
B104	4.8	0.3	13	2.5	-2.7	-1.0	-0.3	0.0	0.3	0.000	2	2
B105	0.3	-2.3	19	-0.7	-0.5	0.1	0.2	0.1	-0.5	0.000	-2	1
B106	13.3	2.9	5	0.2	2.3	0.4	0.3	0.0	-0.6	0.000	1	1
B107	-8.6	-5.7	29	-1.5	-1.6	-1.4	-0.2	0.0	0.1	0.000	-1	1
B108	2.3	1.4	16	1.1	-1.9	3.8	0.6	-0.1	-0.5	0.000	-1	3
B109	-8.8	-9.8	31	0.3	-2.7	-0.4	0.0	0.0	0.0	0.000	-3	1
B110	16.3	4.1	3	3.6	-1.0	-0.5	-0.4	-0.1	0.5	0.000	2	2
B111	11.0	4.3	9	2.2	0.0	1.1	-0.2	0.0	-0.1	0.000	1	1
B112	12.7	3.5	6	-1.3	-2.5	0.5	-0.8	0.1	0.7	0.000	-7	2
B113	6.8	-1.7	11	2.3	-2.7	-0.6	0.3	-0.1	0.0	0.000	0	1
B114	-11.5	-6.6	34	-1.0	-2.7	-1.4	-0.5	0.0	0.2	0.000	0	1
B115	-15.8	-1.4	40	0.7	-0.9	-1.1	0.0	0.0	0.0	0.000	3	1
B116	2.5	-0.9	15	-0.3	5.0	0.6	0.0	0.0	-0.2	0.000	-1	1
B117	-14.5	0.5	37	-1.3	8.0	-1.4	0.0	0.0	0.0	0.000	3	1
B118	-5.8	3.2	27	-0.2	12.9	-1.2	0.5	0.0	-0.3	0.000	4	1
B119	25.5	5.4	2	2.6	-1.4	0.2	-1.2	0.0	0.8	0.000	0	2
B120	-8.7	3.3	30	-1.8	0.7	-0.5	-0.7	0.0	0.7	0.000	1	1
B121	-5.0	-3.0	24	-1.9	2.8	-0.8	1.0	-0.1	-0.6	0.000	0	n/a
B122	-12.9	0.8	36	-1.9	-1.7	-1.0	-0.3	0.0	-0.1	0.000	0	1
B123	-12.7	-5.1	35	-0.1	-0.7	0.5	0.6	0.0	-0.7	0.000	0	2
B124	-9.3	0.3	33	-1.9	2.9	-0.7	0.9	0.0	-0.7	0.000	1	2
B125	-5.1	2.1	25	-2.2	1.2	2.8	-0.1	0.1	-0.3	0.000	-5	1
B126	-3.2	2.2	21	-0.2	-2.7	-0.9	0.7	-0.1	-0.4	0.000	-6	1
B127	25.9	5.4	1	-0.2	-2.7	-0.6	0.2	-0.1	0.1	0.000	-3	1
B128	11.4	1.6	8	-0.6	-2.7	-0.9	-0.6	0.1	1.6	0.000	1	n/a
B129	10.9	2.2	10	0.8	-1.1	0.0	0.4	-0.1	0.0	0.000	0	1
B130	14.6	3.2	4	0.7	-0.2	-0.3	-0.9	0.0	0.8	0.000	-2	n/a
B131	4.5	5.6	14	-0.1	-1.8	-0.6	0.3	0.0	-0.5	0.000	-1	n/a
Mo17	-9.2	0.4	32	0.3	3.3	-0.3	0.2	-0.1	0.0	0.000	4	1
N196	-5.3	-8.1	26	2.3	-2.7	-1.4	0.2	0.0	-0.1	0.000	0	1

Table 23. Agronomic data for inbred lines evaluated near Ames, Iowa.

Pedigree	Grain Yield	Plants Per Acre	Yield Rank	Grain Moisture	Lodging		Protein	Oil	Starch	Density	Silk Date	Cob Color
					Root	Stalk						
Back to Table 1	bu/ac	x 1000	.	%	%	%	%	%	%		DAP	
Experiment Mean	34.8	18.4	.	17.0	4.7	2.6	3.3	1.1	19.7	0.440	84	
Minimum Mean	-15.8	-9.8	.	-2.2	-2.7	-1.4	-1.2	-0.1	-0.9	0.000	-7	
Maximum Mean	25.9	5.6	.	3.6	12.9	4.9	1.0	0.1	1.6	0.000	9	
BLUP SE	8.0	1.9	.	1.3	3.2	1.4	0.3	0.1	0.4	.	1	
Genetic Variance	184.0	18.7	.	3.8	23.2	4.3	0.3	0.0	0.4	0.000	9	
Genetic Variance Uppper Limit	412.2	34.8	.	10.6	64.0	12.5	0.7	0.1	1.2	.	15	
Genetic Variance Lower Limit	103.8	11.6	.	1.9	11.8	2.2	0.2	0.0	0.2	.	6	
G X E Variance	188.0	7.4	.	6.5	19.5	3.7	0.0	0.0	0.0	0.000	0	
G X E Variance Uppper Limit	298.4	13.2	.	10.4	66.1	14.2	0.0	.	0.1	.	.	
G X E Variance Lower Limit	129.3	4.7	.	4.5	9.2	1.6	0.0	.	0.0	.	.	
Error Variance	71.4	8.1	.	1.9	64.5	13.6	0.1	0.0	0.4	0.000	1	
Error Variance Uppper Limit	99.3	10.6	.	2.6	84.8	17.8	0.2	0.1	0.8	0.000	2	
Error Variance Lower Limit	53.8	6.4	.	1.4	50.7	10.7	0.1	0.0	0.3	0.000	1	
Number of environments	3.0	3.0	.	3.0	3.0	3.0	3.0	3.0	3.0	3.0	1.0	
Number of replications	2.0	2.0	.	2.0	2.0	2.0	1.7	1.7	1.7	1.7	2	
Repeatability	0.7	0.8	.	0.6	0.6	0.6	0.9	0.6	0.8	0.0	0.95	

Silk Date DAP = days after planting
 Cob Color: 1 = red, 2 = pink, and 3 = white

Table 26. Pedigree or derivation information for inbreds tested in 2005.

Line	Pedigree or Derivation
Back to Table 1	
B73	(SSSC5Ia13)-4-1-1
B84	BS13(S)C0-45-6-2-1-1
B89	BSSS(R)C7-84
B90	BSCB1(R)C7-144
B91	BSCB1(R)C8-124
B93	(B70 X H992)-215-1-1
B94	BSSS(R)C8-72-1-1
B95	BSCB1(R)C7-55
B96	41:2504B
B97	BSCB1(R)C9-2
B98	BS11(FR)C5-2803
B99	BSCB1(R)C10-7233
B100	(B85 x H99)-361-1-1-1-1-1-1
B101	BSSS-53-1-1-1-1-1-1
B102	(B85 x H992) - 336-1-2-1-1-1-1-1-1
B103	Mex. 41-C15-9-1-1-1-1-1-1-1
B104	BS13(S)C5-13-1-1-2-1-1-1
B105	BSSS(R)C9-88-5-1-1-1-1-1-2-1-1-1
B106	BS26-2-552-1-1-1-1-1-1-1-1-1-1
B107	MEX. 41-C15-19-1-1-1-1-1
B108	IA41-C15-55-1-1-1-1-1-1
B109	(B73 X BS20 sel.)-144-1-1-1-1-1-1
B110	BS13(S)C5-12-2-1-1-1-1
B111	BSSS(R)C9-107
B112	BSCB1(R)C11-9081
B113	BS11(FR)C9-3237-12-1
B114	MEX.41-C15-19-2
B115	BS11(FR)C9-3227-9
B116	B97/B99)-047-1-1-1-1-1-1-1-B-B
B117	B97/B99)-024-1-1-2-1-1-1-1-1-B-B
B118	B97/B99)-024-1-1-2-1-2-1-1-1-B-B
B119	BS13(S)C7-0008-1-1-1-1-1-B-B
B120	BSCB1(R)C12-6826-1-1-1-1-1-1-B-B
B121	BSCB1(R)C12-0120-1-1-1-1-1-1-B-B
B122	BSKRL2(HI)C0-7203-3-2-01-01-03-B-B

Table 26. Pedigree or derivation information for inbreds tested in 2005.

Line	Pedigree or Derivation
B123	BSKRL2(HI)C0-7314-2-1-01-01-01-B-B
B124	BSKRL2(HI)C0-7370-2-2-02-01-02-B-B
B125	BSKRL2(HI)C0-7383-3-2-01-01-03-B-B
B126	BS22(R)C6)-154-1-1-1-1-01-B
B127	BS13(S)C6)-7601-1-1-2-1-2-1-1-1-1-1-02-B
B128	BS13(S)C6)-8097-1-1-1-1-1-1-1-01-B
B129	B73/B84)-030-1-01-01-03-01-B-B
B130	B73/B94)-002-1-01-01-02-01-B-B
B131	BSKRL2(HI)C1-117-001-02-02-01-B
FR2108	Oh43 Syn
FR3113	B14
FR3303	B73, B84
LH185	LH123, Mo17
LH198	B73, B84
LH244	B73, B84
LH283	LH82, Oh7, Pa91
LH287	LH123, Mo17
LH295	LH82, LH105, P3704
LH331	A632, B73, P3394
Mo17	CI187-2xC103
N196	N28 x B73 S3 sisters
NC376	B73, NC250
NC386	NC258 x NC296
NC394	TROPHY Composite
NC432	B73, Pa91
SGI851	Oh Syn
SGI890	B37, B73
SGI912	B73, B37
TR4006	B14, B73
TR5753	W153R, P3535
TR7245	B73, B37
TR7322	Mo17, Oh43

Information on licensing ISU inbreds can be found at:

<http://www.ag.iastate.edu/centers/cad/index.html>.