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# PERFORMANCE OF EXPERIMENTAL CORN HYBRIDS IN ILLINOIS, 1958

By R. W. JUGENHEIMER and K. E. WILLIAMS<sup>1</sup>

THE DEVELOPMENT AND EVALUATION of better-performing inbred lines and hybrids remain an important objective of the Illinois Agricultural Experiment Station. This report summarizes the results of performance trials of experimental corn hybrids conducted in 1958. About 750 different hybrids were compared in nearly 6,000 plots. Most of the hybrids were developed by the senior author. Data from preliminary tests involving specialized phases of the Illinois corn-research program are not included in this bulletin.

The University of Illinois does not produce hybrid seed corn in commercial quantities. Hybrids that include new inbred lines may be produced under the "delayed-release" program adopted by the states in the corn belt. Multiplication of a new line is handled by the Station, and the production of single crosses in quantity is handled by the Illinois Seed Producers Association, Champaign, Illinois. If a new Illinois experimental hybrid gives satisfactory performance, the parental lines eventually are released for use by seedsmen.

In order to make the results of corn research more quickly available to the public, the University of Illinois has adopted a slight modification of the "delayed-release" policy as it pertains to Illinois-developed inbred lines. Inbred lines of corn developed by the University of Illinois may be released to the public when they have demonstrated superior combining ability for yield, standability, disease resistance, insect resistance, chemical composition, male sterility, or other characters. Such Illinois lines may form a part of a new hybrid or be used in other ways by corn breeders. Inbred lines of corn developed by others will not be released without their approval.

Hand-pollinated seed of released Illinois inbred lines usually is available for a fee in packets containing 25 to 100 kernels. New releases are announced annually about April 1. Inquiries may be addressed to the senior author, Agronomy Department, University of Illinois, Urbana, Illinois.

Since most of the hybrids whose performance is recorded here are not yet in commercial use, the information about them is of most value to producers of hybrid seed. The 1958 performance of hybrids available to farmers in commercial quantities is reported in Bulletin 635 of this Station.

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## MATERIAL TESTED

**Double crosses for consideration of seedsmen.** More than 400 different double-cross hybrids were grown at four locations. The seed was produced by controlled hand-pollination. The double-cross hybrids whose performance is shown in this report and the tables in which each appears are shown in Table 16. Hybrids that were high yielding and had excellent standability are indicated by table numbers in **bold-face** type. Table 16 also contains the pedigrees of the hybrids tested. *In the pedigrees, the order of the single crosses and of the lines in the single crosses has no significance; it does not indicate which should be used as seed or pollen parent.*

Illinois yellow hybrids are numbered consecutively below 2000 and above 3000. White hybrids are numbered in the 2000 series; these white hybrids are usually followed by the letter W. Hybrids that have performed well after regional testing in several corn-belt states have been designated AES (Agricultural Experiment Station) hybrids. Hybrids in the 600 series are similar to Illinois 1277 in maturity; those in the 700 series correspond in maturity to Illinois 21; those in the 800 series correspond to Illinois 1570; and those in the 900 series to Illinois 1851.

The letter A or B following an Illinois hybrid number indicates that the combination of inbred lines making up the hybrid has been rearranged or permuted. For example, if the original pedigree of an Illinois hybrid was  $(1 \times 2) (3 \times 4)$ , the letter A following the number means that the hybrid was put together  $(1 \times 3) (2 \times 4)$ , the letter B,  $(1 \times 4) (2 \times 3)$ . A difference in reciprocals is not recognized in this method. When a short dash (-) followed by a number occurs as part of an Illinois hybrid number, it means that a tested related line has been substituted for one of the inbred lines included in the original hybrid.

**Hybrids for prediction studies.** Five sets of three-way crosses differing in maturity were tested in 1958. The three-way crosses in Tables 3, 5, 9, and 14 are a part of the "uniform" tests conducted cooperatively by corn-belt states and the U. S. Department of Agriculture. Seed of the unreleased inbred lines involved in these crosses was contributed by the state or by the federal corn breeder who developed them. Three-way crosses whose performance is reported in Table 10 were developed by the Illinois Station and tested only in Illinois.

The following individuals are responsible at the present time for collecting seed of inbred lines, making the crosses, and distributing

crossed seed of the entries in the cooperative uniform tests: E. C. Rossman (Michigan), N. P. Neal (Wisconsin), and G. H. Stringfield (Ohio) — Table 3; J. H. Lonquist (Nebraska), R. W. Jugenheimer (Illinois), and G. F. Sprague (Maryland) — Tables 5 and 9; and W. R. Findley (Kansas), F. A. Loeffel (Kentucky), and M. S. Zuber (Missouri) — Table 14.

Performance of single-cross, three-way-cross, and top-cross hybrids is of interest to corn breeders, producers of hybrid seed corn, and farmers. Characteristics of single crosses such as yield, standability, and size, shape, and quality of seed definitely affect the practical production of hybrid seed corn. Some farmers are interested in growing single-cross and three-way-cross hybrids commercially because of their attractive appearance and extreme uniformity. Use of single-cross and three-way-cross data for the prediction of desirable double-cross combinations creates additional interest in the performance of single crosses and three-way crosses.

Prediction studies are an extremely valuable part of a research program. Methods are available to predict the performance of the better hybrid combinations without making and testing large numbers of undesirable crosses. For example, 1,225 single crosses and 690,900 double crosses are possible with 50 inbred lines. However, by using single-cross performance data, the corn breeder can predict which of the many possible double-cross combinations are likely to be most desirable. The following six single crosses can be made with four inbred lines:  $A \times B$ ,  $A \times C$ ,  $A \times D$ ,  $B \times C$ ,  $B \times D$ , and  $C \times D$ . The average performance of the four non-parental single crosses gives the predicted performance of a specific double-cross hybrid. For instance, the average yields of the four single crosses  $A \times C$ ,  $A \times D$ ,  $B \times C$ , and  $B \times D$  give the predicted yield of double cross ( $A \times B$ ) ( $C \times D$ ). The procedure in predicting acre yields and percentage of erect plants from single-cross data is shown on page 6 of Illinois Agricultural Experiment Station Bulletin 597.

Similar predictions can be made for other characteristics. Predicted hybrid combinations, however, should always be thoroughly tested under field conditions before being put into commercial production.

Three-way crosses also provide useful predictions of the performance of double-cross hybrids. A large number of inbred lines can be compared, and the method is especially valuable where a desirable seed-parent single cross is available for use as a tester. Three-way crosses provide information on specific hybrids and may often eliminate the time and expense required for testing inbred lines in top crosses and

single crosses. The procedure in predicting acre yields and percentage of erect plants from three-way-cross data is also shown on page 6 of Bulletin 597.

Top crosses are simple to produce and often are useful in early stages of a breeding program. For example, a single cross from the corn belt of the United States might contribute genes for high yield and standability, and an open-pollinated variety from Europe might contribute adaptation to local European conditions. Such top crosses might thus combine the desirable traits of the American single cross and the European open-pollinated variety. Most top crosses, however, are temporary expedients, which usually are eventually replaced by double crosses. Top crosses are useful also for evaluating the performance of inbred lines. They also provide a means of selecting promising open-pollinated varieties for use as source material for the development of inbred lines.

## MEASURING PERFORMANCE

Trials were made at four locations: in DeKalb county in northern Illinois, in Peoria county in north-central Illinois, in Champaign county in central Illinois, and in Fayette county in south-central Illinois. These locations are representative of the soil, rainfall, and length of growing season in their respective areas.

Hybrids were compared for grain yield, maturity, shelling percentage, standability, ear height, dropped ears, and resistance to smut. Only hybrids of similar maturity were tested on the same field. A familiar hybrid whose maturity was considered the standard for the group is named in each table heading. Percentage of oil and protein in the grain was determined on special hybrids.

General information concerning the tests is given in Table 1.

**Field plot design.** Semi-balanced lattice designs were used to obtain the data reported in Tables 8 and 9. The data in Tables 3, 5, 10, 11, 12, 13, and 14 were obtained in randomized blocks. Rectangular lattice designs were used for the data reported in Tables 2, 4, 6, and 7.

**Method of planting.** All plots in these tests were planted, thinned, and harvested by hand in well-fertilized fields prepared in the usual way for corn. Individual plots were  $2 \times 5$  hills in area. Six kernels were planted in hills spaced 40 inches apart. Hills were thinned to 4 plants at DeKalb, Peoria, and Champaign, and to 3 plants at Brownstown.

Table 1.—GENERAL INFORMATION: Tests of Illinois Experimental Corn Hybrids, 1958

County <sup>a</sup>	Section of state	Table number	Plants per hill	Date of—	
				Planting	Harvesting
DeKalb.....	Northern	2-3	4	May 8	Oct. 9
Peoria.....	North-Central	4-5	4	May 12	Oct. 21
Champaign.....	Central	6-7	4	May 13	Oct. 28
Champaign.....	Central	8-9	4	May 22	Oct. 20
Champaign.....	Central	10	4	May 21	Oct. 16
Champaign.....	Central	11	4	May 23	Oct. 29
Champaign.....	Central	12	4	May 22	Oct. 23
Fayette.....	South-Central	13-14	3	May 22	Nov. 11

<sup>a</sup> The fields are located near the following cities and towns: in DeKalb county near DeKalb, in Peoria county near Peoria, in Champaign county near Urbana, and in Fayette county near Brownstown.

**Acre grain yields.** Acre yields are reported as shelled grain containing 15.5 percent moisture, the maximum allowable for No. 2 corn. Data from all plots are included in the report on yield. The only correction for imperfect stands was the following adjustment for missing hills:

$$\text{Ear weight in field} \times \left[ 1 + \left( \frac{\text{missing hills}}{\text{hills present}} \times .7 \right) \right] = \text{adjusted ear weight}$$

This adjustment adds 0.7 percent of the average hill yield for each missing hill, and assumes that 0.3 percent is made up by the increased yield of surrounding hills.

**Shelling percentage and moisture in grain.** All ears from one replication of each entry were shelled immediately after harvest. The percentage of moisture in the shelled grain was determined with a Steinlite moisture meter.

**Stand.** Counts of the number of missing hills and number of missing plants were made in late summer in each plot. The data are reported as percentage of a perfect stand. Yields were corrected for missing hills.

**Ear height.** Representative plants in each plot were measured to determine the distance in inches from the soil to the ear-bearing node.

**Erect plants and dropped ears.** Percentage of erect plants and of dropped ears in each plot of each entry was determined by actual counts at the time of harvest. Stalks broken above the ear were not considered lodged. Stalks leaning less than 45 degrees were considered as erect.

**Smutted plants.** The number of smutted plants was recorded on all plots in late summer in fields having considerable smut infection. These data are reported in the tables as percent of smutted plants.

**Oil and protein content.** Percentage of oil and of protein was determined by standard procedures on representative grain samples.

## RESULTS OF THE TESTS

Data obtained from the tests are summarized in Tables 2 to 15. Long-time averages are more reliable indexes of the performance of hybrids than a single year's result. The parts of the tables summarizing the results of two or three years therefore deserve the most weight when the results are studied.

Relative performance cannot be determined with absolute accuracy by any method of testing. Small differences between entries are seldom of any significance. In fact, small differences are to be expected among plots planted even with the same lot of seed. Variations in growing conditions such as soil fertility are reduced but not completely eliminated by replicating the same entry several times in the same test. Unavoidable variation may be determined by a mathematical procedure known as analysis of variance. From this procedure figures may be obtained that represent the range which differences between two entries must exceed before those entries can be considered significantly different. The method used to determine this range is called the "Multiple Range Test."<sup>1</sup> This method considers the number of entries that fall within the range as well as the variability of the test. Data shown in **boldface** were not statistically different from the best performance for that characteristic.

**Double crosses.** The performance of more than 400 new double-cross hybrids is shown in Tables 2, 3, 4, 5, 6, 7, 8, 13, and 14. Many of these hybrids were superior to popular combinations now being grown. *Double-cross hybrids that were high yielding and had excellent standability are indicated by heavy type in Table 16.*

**Three-way crosses.** Data on four sets of three-way crosses are reported in Tables 3, 5, 9, and 14. These data permit predicting the performance of hundreds of promising double crosses. Some of the three-way-cross hybrids may be grown commercially because of their

<sup>1</sup>"Multiple Range and Multiple F Tests," by D. B. Duncan in *Biometrics* 11 (1), 1-43. 1955.

excellent performance, extreme uniformity, and attractive appearance. Some of the better hybrids include:

#### *Northern Illinois*

Table 3 — (M14×WF9)×A427, (M14×WF9)×R151, (M14×WF9)×R182, (M14×WF9)×MS128, (Oh43×W64A)×W212, (Oh43×W64A)×W220, (Oh43×W64A)×W375R5, (Oh43×W64A)×A570, (Oh43×W64A)×R151, (Oh43×W64A)×R181, (Oh43×W64A)×R182, (Oh43×W64A)×MS116.

#### *North-Central Illinois*

Table 5 — (WF9×B14)×R174, (WF9×B14)×R184, (WF9×B14)×B42, (Oh28×Oh43)×R103, (Oh28×Oh43)×R174, (Oh28×Oh43)×B46.

#### *Central Illinois*

Table 9 — (Hy×WF9)×R177, (Hy×WF9)×R186, (Hy×WF9)×R188, (Hy×WF9)×H51, (Hy×WF9)×H52, (Hy×WF9)×K805, (Hy×WF9)×Oh7N, (Hy×WF9)×Oh45S, (WF9×38-11)×R177, (WF9×38-11)×H55, (WF9×38-11)×H56, (WF9×38-11)×Oh7N.

#### *South-Central Illinois*

Table 14A — (B41×Oh7A)×38-11, (B41×Oh7A)×K763, (B41×Oh7A)×K6-49, (B41×Oh7A)×Ky55-549, (B41×Oh7A)×Ky55-562, (B41×Oh7A)×Va6-224, (B41×Oh7A)×CI.21E, (B41×Oh7A)(CI.21E×CI.42A).

**High-oil and high-protein hybrids.** Two new corn hybrids, Ill. 6021 (R75 × R76) (R84 × K4) and Ill. 6052 (R78 × 38-11) (R84 × K4), have been developed in the Agronomy Department of the University of Illinois. Foundation single-cross seed of these two hybrids is available to seedsmen interested in producing seed in 1959. Sufficient double-cross seed for farm use will be available for the 1960 growing season. These new hybrids yield about 30 percent more oil and 10 percent more protein than present commercial hybrids. In addition, they are similar to standard hybrids in grain yield, standability, and other agronomic traits. Nationwide use of adapted high-oil hybrids would produce almost as much oil as is now received from butterfat, soybeans, cotton, and flax. These new high-oil hybrids should benefit both the starch industry and the livestock feeders.

Results of tests with high-oil and high-protein hybrids are given in Tables 8, 10, and 15. The 125 three-way crosses reported in Table 10 permit predicting the performance of 7,750 different high-oil and high-protein double-cross hybrids. The actual predictions, however, are not included in this bulletin.

**Inbred lines and sister-line crosses.** Sister-line crosses are combinations between sister strains of the same inbred line. Some sister-line crosses have considerably greater yield, vigor, and standability than the original inbred line, and may be practical for the commercial use of single-cross hybrids. Data on a group of inbred lines and sister-line crosses are reported in Table 11. Related versions of the same inbred are grouped together in Table 11A. Some growers are interested in producing Hy×Oh7 because of its high yield and ability to yield well under high plant populations. Hy2 yielded 35 bushels an acre; whereas, a related sister-line cross R158×CI.42A yielded 125 bushels per acre. This latter hybrid might be used as a seed parent. In addition it is resistant to leaf blight and is higher in protein content. Oh7 yielded 51 bushels an acre whereas, Oh7×Oh7A, a sister-line cross, yielded 85 bushels an acre. This cross might be used as the pollen parent for the commercial production of a modified version of Hy×Oh7. Many of the other sister-line crosses appear to be promising, and could be used as seed parents of single crosses.

**Sweet-stalk hybrids.** Sugary or sweet-stalk hybrids might have greater feeding value than ordinary hybrids, especially for silage. Agronomic information on a group of sweet-stalk hybrids from Spain is reported in Table 12. Chemical analyses of this material are being made by the Northern Utilization Research Branch of the U. S. Department of Agriculture, Peoria, Illinois.



Table 2. — DOUBLE CROSSES OF ILLINOIS 1277 MATURITY

Tested in Northern Illinois, 1956-1958

(Data in boldface were not statistically different from the best performance for that characteristic)

Rank in yield	Entry	Acre yield	Moisture in grain	Shell-ing	Erect plants	Stand	Ear height
<b>A — Three-year averages, 1956-1958</b>							
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>
1	AES 702	<b>128</b>	26	77	<b>84</b>	<b>98</b>	48
2	Ill. 1936	<b>126</b>	25	78	<b>88</b>	<b>99</b>	46
3	AES 601	<b>125</b>	24	78	<b>83</b>	<b>98</b>	44
4	Ill. 1864	<b>125</b>	24	78	<b>84</b>	<b>98</b>	43
5	ISP 2	<b>125</b>	27	78	<b>76</b>	<b>97</b>	47
6	Ill. 1862	<b>124</b>	26	<b>79</b>	<b>93</b>	<b>100</b>	42
7	Ill. 1961	<b>124</b>	<b>21</b>	<b>79</b>	<b>93</b>	<b>99</b>	47
8	Ill. 1863	<b>123</b>	26	77	<b>81</b>	<b>99</b>	43
9	Ill. 1952	<b>123</b>	23	<b>79</b>	<b>88</b>	<b>98</b>	46
10	Ill. 1956	<b>122</b>	25	77	74	<b>99</b>	48
11	Ill. 1958	<b>122</b>	<b>22</b>	<b>79</b>	<b>86</b>	<b>96</b>	48
12	Ill. 1277	<b>121</b>	25	78	73	<b>99</b>	46
13	Ill. 1559B	<b>121</b>	24	77	<b>84</b>	<b>97</b>	45
14	Ill. 1957	<b>121</b>	24	78	<b>87</b>	<b>98</b>	44
15	Ill. 1575	<b>120</b>	26	77	74	<b>98</b>	47
16	Ill. 1955	<b>120</b>	<b>22</b>	78	<b>96</b>	<b>97</b>	44
17	Ill. 1960	<b>120</b>	24	<b>79</b>	<b>88</b>	<b>99</b>	46
18	Ill. 1281	<b>119</b>	24	78	<b>82</b>	<b>99</b>	43
19	Ill. 1555A	<b>119</b>	<b>22</b>	78	<b>85</b>	<b>97</b>	46
20	Ill. 1962	<b>119</b>	<b>22</b>	78	<b>93</b>	<b>98</b>	47
21	Ill. 1091A	<b>118</b>	25	78	71	<b>96</b>	48
22	Ill. 1866	<b>118</b>	25	78	70	<b>98</b>	43
23	Ill. 1279	<b>117</b>	24	78	74	<b>97</b>	46
24	Ill. 1959	<b>117</b>	24	<b>79</b>	<b>93</b>	<b>98</b>	44
25	Minn. CB4621	<b>117</b>	<b>21</b>	<b>79</b>	<b>95</b>	<b>99</b>	44
26	AES 510	115	<b>21</b>	<b>79</b>	<b>82</b>	<b>96</b>	43
27	Ill. 1953	115	<b>22</b>	77	<b>87</b>	<b>99</b>	41
28	Ill. 2247W	115	26	77	<b>85</b>	<b>96</b>	48
29	Ill. 1289	114	25	76	<b>85</b>	<b>97</b>	42
30	Ill. 1557	114	26	77	<b>87</b>	<b>96</b>	45
31	Minn. CB4603	113	<b>22</b>	<b>79</b>	<b>95</b>	<b>97</b>	46
32	AES 610	112	23	<b>80</b>	<b>94</b>	<b>98</b>	<b>38</b>
33	Ill. 1560A	112	26	78	<b>84</b>	<b>97</b>	45
34	Ohio K24	111	23	<b>79</b>	<b>84</b>	<b>94</b>	41
35	Ill. 101	110	24	<b>79</b>	66	<b>92</b>	45
36	Mich. 53-151	109	<b>22</b>	78	<b>88</b>	<b>94</b>	44
37	Ill. 21	103	26	78	73	85	50
	Average	118	24	78	84	97	45
<b>B — Two-year averages, 1957-1958</b>							
1	Ill. 3007	<b>136</b>	28	<b>80</b>	<b>77</b>	<b>96</b>	54
2	Ill. 3152	<b>134</b>	30	<b>78</b>	<b>86</b>	<b>100</b>	44
3	AES 702	<b>130</b>	30	76	<b>78</b>	<b>98</b>	50
4	AES 601	<b>128</b>	28	77	<b>79</b>	<b>98</b>	46
5	Ill. 1936	<b>128</b>	29	77	<b>84</b>	<b>98</b>	46
6	Ill. 3009	<b>128</b>	25	<b>78</b>	<b>92</b>	<b>98</b>	50
7	Ind. 6225	<b>128</b>	<b>25</b>	<b>79</b>	<b>90</b>	<b>100</b>	49
8	Ill. 1952	<b>127</b>	<b>26</b>	<b>78</b>	<b>83</b>	<b>98</b>	46
9	Ill. 1862	<b>126</b>	30	<b>78</b>	<b>90</b>	<b>100</b>	42
10	Ill. 1863	<b>126</b>	30	76	<b>74</b>	<b>98</b>	44
11	Ill. 1961	<b>126</b>	<b>24</b>	<b>78</b>	<b>90</b>	<b>99</b>	48
12	Ill. 1864	<b>125</b>	28	77	<b>78</b>	<b>98</b>	43
13	Ill. 1999	<b>125</b>	32	77	<b>80</b>	<b>98</b>	45
14	Ill. 3008	<b>124</b>	30	<b>78</b>	<b>86</b>	<b>96</b>	50
15	ISP 2	<b>124</b>	32	76	<b>68</b>	<b>96</b>	48
16	Ill. 3043	<b>123</b>	32	<b>79</b>	<b>92</b>	<b>96</b>	48
17	Ill. 1277	<b>122</b>	29	77	62	<b>99</b>	46
18	Ill. 1559B	<b>122</b>	27	76	<b>76</b>	<b>97</b>	46
19	Ill. 1957	<b>122</b>	28	77	<b>82</b>	<b>98</b>	45
20	Ill. 1958	<b>122</b>	<b>26</b>	<b>78</b>	<b>82</b>	<b>95</b>	49

(Table is continued on next page)

Table 2.—Continued

Rank in yield	Entry	Acre yield	Mois- ture in grain	Shell- ing	Erect plants	Stand	Ear height
<b>B — Two-year average, 1957-1958 — Concluded</b>							
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>
21	Ill. 3046	122	28	77	90	96	52
22	Ill. 1955	121	25	76	96	96	45
23	Ill. 1956	121	30	75	62	99	50
24	Ill. 1091A	120	28	77	64	97	49
25	Ill. 1279	120	28	77	63	98	48
26	Ill. 1575	120	30	76	62	98	48
27	Ill. 1959	120	28	78	92	98	45
28	Ill. 1960	120	28	79	82	99	46
29	Ill. 3016	120	34	76	91	96	48
30	Ill. 1555A	119	24	76	80	96	48
31	Ill. 3044	119	29	76	90	98	50
32	Ill. 3045	119	29	78	90	96	47
33	Ill. 3047	119	28	78	89	93	46
34	Minn. CB4621	119	24	78	94	98	44
35	Ill. 1281	118	28	77	80	99	43
36	Ill. 1962	118	26	78	90	96	48
37	Ill. 3048	118	28	79	92	94	48
38	AES 510	116	24	76	75	95	44
39	Ill. 1866	116	28	76	58	98	43
40	Ill. 1953	116	26	76	80	99	42
41	Minn. CB4603	116	25	78	93	96	46
42	Ill. 2247W	114	30	75	80	95	50
43	AES 610	112	26	78	94	98	38
44	Ill. 1289	112	28	75	77	96	43
45	Ill. 1560A	112	30	78	76	96	46
46	Ill. 1557	111	30	76	82	95	46
47	Ohio K24	110	26	78	80	92	42
48	Mich. 53-151	106	25	78	84	92	44
49	Ill. 101	105	28	78	55	90	46
50	Ohio M15	102	24	78	78	88	48
51	Ill. 21	96	30	77	72	78	52
	Average	120	28	77	81	96	46
<b>C — 1958 results (3 replications)</b>							
1	Ill. 3163	141	33	81	66	99	46
2	Ill. 3152	140	32	79	74	100	47
3	Ill. 3173	138	33	82	87	100	52
4	Ill. 3177	138	33	79	44	98	49
5	AES 601	137	30	77	62	99	50
6	Ill. 1936	137	32	79	72	100	48
7	Ill. 3169B	137	34	78	78	99	46
8	Ill. 3007	135	32	80	55	100	58
9	Ill. 3171	135	36	80	84	100	49
10	AES 702	134	33	77	56	100	54
11	Ill. 3167B	134	34	77	76	97	54
12	Ill. 3152A	133	28	78	73	99	46
13	Ill. 1862	131	33	80	81	100	46
14	Ill. 3162	131	31	79	60	98	42
15	Ill. 3174	131	28	78	84	99	47
16	Ill. 3176B	131	34	77	75	99	52
17	Ill. 2247W	130	31	76	61	98	54
18	Ill. 3016	130	38	78	87	99	52
19	Ill. 3159	130	31	78	59	100	47
20	Ill. 3169A	130	34	78	60	97	47
21	Ill. 1559B	129	28	77	54	100	48
22	Ill. 1961	129	26	79	80	100	50
23	Ill. 3023B	129	35	80	75	99	46
24	Ill. 3287	129	33	79	94	100	47
25	ISP 2	129	35	77	53	95	51
26	Ill. 1952	128	29	80	69	98	48
27	Ill. 3167A	128	37	79	77	100	53
28	Ill. 1999	127	34	78	62	99	49
29	Ill. 3169C	127	34	78	63	97	51
30	Ind. 6225	127	28	80	82	100	52

(Table is concluded on next page)

Table 2. — Concluded

Rank in yield	Entry	Acre yield	Mois- ture in grain	Shell- ing	Erect plants	Stand	Ear height
<b>C — 1958 results (3 replications) — Concluded</b>							
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>
31	Ill. 1864.....	126	32	77	57	<b>100</b>	46
32	Minn. 200.....	126	28	78	<b>79</b>	96	47
33	Ill. 1277.....	125	30	77	31	<b>100</b>	50
34	Ill. 1958.....	125	28	77	66	99	51
35	Ill. 3289.....	125	38	75	<b>83</b>	96	49
36	Ill. 3290.....	125	36	76	<b>90</b>	<b>100</b>	48
37	Ill. 1863.....	124	33	76	49	99	47
38	Ill. 3023A.....	124	35	79	58	97	47
39	Ill. 3168A.....	124	37	79	57	98	<b>43</b>
40	Ill. 3170.....	124	32	79	46	<b>100</b>	46
41	Minn. 201.....	124	30	79	75	99	45
42	Ill. 1279.....	123	30	77	30	<b>100</b>	50
43	Ill. 3008.....	123	34	78	75	98	54
44	Ill. 3009.....	123	28	79	<b>86</b>	98	55
45	Ill. 3172.....	123	36	80	<b>84</b>	99	56
47	Ill. 1866.....	122	30	76	21	98	47
48	Ill. 1959.....	122	30	80	<b>86</b>	97	47
49	Ill. 3047.....	122	32	79	<b>80</b>	98	50
50	Iowa 5053.....	122	29	77	71	98	49
51	Ill. 1091A.....	121	30	77	32	99	53
52	Ill. 1955.....	121	27	75	<b>91</b>	99	46
53	Ill. 1957.....	121	31	78	64	99	45
54	Ill. 3044.....	121	33	78	<b>81</b>	99	54
55	Ill. 3168.....	121	38	79	63	<b>100</b>	46
56	AES 610.....	120	29	79	<b>88</b>	99	<b>39</b>
57	Ill. 1555A.....	120	26	74	64	98	50
58	Ill. 1956.....	120	33	75	32	<b>100</b>	52
59	Ill. 1962.....	120	27	78	<b>83</b>	96	50
60	Ill. 3002.....	120	26	78	<b>82</b>	<b>100</b>	51
61	Ill. 3175.....	120	38	80	<b>82</b>	98	50
62	Ill. 3178.....	120	29	79	52	98	52
63	Ill. 101.....	119	30	79	24	<b>100</b>	49
64	Ill. 1575.....	119	32	76	33	99	52
65	Ill. 3046.....	119	33	78	<b>82</b>	99	54
66	Ohio M15.....	119	25	81	62	<b>100</b>	50
67	Minn. CB4621.....	119	27	78	<b>88</b>	<b>100</b>	47
68	Ill. 1960.....	118	30	80	66	<b>100</b>	48
69	Ill. 3043.....	118	36	79	<b>85</b>	96	52
70	Iowa 4947.....	118	32	77	<b>86</b>	94	48
73	Ill. 3045.....	117	33	78	<b>80</b>	99	52
74	Ill. 3048.....	117	30	79	<b>83</b>	96	51
75	Ill. 3164.....	117	29	78	57	98	50
76	Ill. 3168B.....	117	39	78	61	99	46
77	Minn. CB4603.....	117	27	79	<b>86</b>	96	50
78	AES 510.....	116	28	76	51	98	48
79	Ill. 21.....	114	32	78	49	98	57
80	Ill. 1281.....	114	30	77	62	99	<b>43</b>
81	Ill. 3288.....	114	34	77	43	99	47
82	Ohio K24.....	113	28	79	64	92	45
83	Ill. 1557.....	112	32	79	66	98	49
84	Ill. 1953.....	111	28	75	63	<b>100</b>	<b>43</b>
85	Ill. 1560A.....	110	33	78	51	97	46
86	Ill. 1289.....	108	30	76	57	93	46
87	Ill. 6052.....	108	40	75	56	96	62
88	Mich. 53-151.....	105	26	78	72	92	45
89	Ill. 3176A.....	97	40	76	53	98	47
90	Ill. 6021.....	97	40	75	52	<b>100</b>	62
46	WF9×Ob43.....	123	38	78	<b>92</b>	90	45
71	M14×WF9.....	118	29	73	30	95	45
72	R172×WF9.....	117	28	78	<b>99</b>	93	49
	Average.....	123	32	78	67	98	49

Table 3.—THREE-WAY, SINGLE, AND DOUBLE CROSSES  
OF ILLINOIS 1277 MATURITY

Tested in Northern Illinois, 1958

(Data in boldface were not statistically different  
from the best performance for that characteristic)

Code	Entry	Acre yield	Mois- ture in grain	Shell- ing	Erect plants	Stand	Ear height
<b>A — Inbred lines crossed with (M14×WF9)</b>							
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>
1	Ia55-1473	124	27	77	21	<b>100</b>	45
2	Ia55-1487	120	30	77	<b>96</b>	<b>97</b>	43
3	Ia55-1716	127	33	74	<b>78</b>	<b>100</b>	49
4	Oh26F	116	27	78	70	<b>100</b>	44
5	Oh45S	121	33	74	50	<b>100</b>	44
6	W212	126	28	77	47	<b>99</b>	46
7	W220	132	30	77	68	<b>100</b>	47
8	W375R5	128	28	79	52	<b>100</b>	43
9	A427	<b>137</b>	31	78	<b>92</b>	<b>100</b>	45
10	A570	130	29	76	64	<b>99</b>	44
11	R151	<b>140</b>	33	79	68	<b>100</b>	51
12	R180	110	34	78	66	<b>100</b>	51
13	R181	122	25	77	47	<b>98</b>	46
14	R182	127	32	77	<b>80</b>	<b>98</b>	47
15	R183	121	32	78	67	<b>98</b>	52
16	MS68	103	27	76	26	93	<b>40</b>
17	MS116	<b>140</b>	25	84	66	<b>100</b>	47
18	MS127	119	30	78	<b>78</b>	<b>100</b>	48
19	MS128	126	30	79	<b>86</b>	<b>99</b>	46
20	MS129	<b>135</b>	31	79	52	<b>98</b>	43
	Average	125	30	78	64	99	46
<b>B — Inbred lines crossed with (Oh43×W64A)</b>							
21	Ia55-1473	113	27	77	48	<b>98</b>	<b>41</b>
22	Ia55-1487	109	32	78	<b>99</b>	<b>99</b>	<b>39</b>
23	Ia55-1716	125	32	77	<b>97</b>	<b>100</b>	44
24	Oh26F	107	36	76	<b>87</b>	96	<b>36</b>
25	Oh45S	116	29	78	<b>86</b>	<b>99</b>	43
26	W212	129	29	76	<b>92</b>	<b>98</b>	42
27	W220	125	29	78	<b>97</b>	<b>100</b>	43
28	W375R5	124	29	79	<b>92</b>	<b>100</b>	43
29	A427	115	30	77	<b>98</b>	<b>98</b>	44
30	A570	128	29	77	75	<b>99</b>	45
31	R151	<b>144</b>	31	79	<b>88</b>	<b>100</b>	50
32	R180	127	36	85	<b>87</b>	<b>98</b>	46
33	R181	124	29	76	<b>92</b>	<b>98</b>	44
34	R182	125	28	78	<b>98</b>	<b>100</b>	44
35	R183	113	34	79	69	<b>98</b>	52
36	MS68	109	27	79	71	<b>99</b>	44
37	MS116	130	26	81	74	<b>99</b>	47
38	MS127	120	28	80	<b>91</b>	<b>100</b>	44
39	MS128	116	34	79	<b>92</b>	<b>98</b>	44
40	MS129	124	34	76	<b>81</b>	<b>98</b>	47
	Average	121	30	78	86	99	44
<b>C — Single crosses</b>							
42	M14×WF9	128	29	76	26	<b>100</b>	46
41	Oh43×W64A	120	34	77	<b>82</b>	<b>98</b>	<b>40</b>
43	K4×38-11	107	40	76	73	96	60
	Average	118	34	76	60	98	49
<b>D — Double crosses</b>							
47	Ill. 6052	124	40	83	66	<b>99</b>	59
44	Ill. 1277	123	33	78	28	<b>100</b>	53
49	U.S. 13	122	34	76	69	<b>100</b>	57
48	Ill. 6062	110	36	76	57	<b>98</b>	61
45	Ill. 6016	105	36	77	43	<b>100</b>	54
46	Ill. 6021	102	39	75	48	<b>98</b>	62
	Average	114	36	78	52	99	58
Average of 49 entries		122	31	78	71	99	47

Table 4. — DOUBLE CROSSES OF ILLINOIS 21 MATURITY

Tested in North-Central Illinois, 1956-1958

(Data in boldface were not statistically different from the best performance for that characteristic)

Rank in yield	Entry	Acre yield	Moisture in grain	Shell-ing	Erect plants	Stand	Ear height	Dropped ears
<b>A — Three-year averages, 1956-1958</b>								
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>perct.</i>
1	AES 805.....	<b>132</b>	19	81	80	<b>97</b>	49	<b>1</b>
2	Ill. 274-1.....	<b>125</b>	17	83	79	<b>96</b>	51	<b>1</b>
3	Ill. 972A-1.....	<b>125</b>	19	82	76	<b>98</b>	51	<b>3</b>
4	Ill. 1970.....	<b>124</b>	18	<b>85</b>	77	<b>99</b>	47	<b>1</b>
5	Ill. 1971.....	<b>124</b>	17	<b>84</b>	84	<b>99</b>	47	<b>0</b>
6	Ill. 1332.....	<b>123</b>	18	83	82	<b>98</b>	50	<b>3</b>
7	Ill. 1575.....	<b>123</b>	18	83	79	<b>98</b>	45	4
8	Ill. 1831.....	<b>122</b>	19	82	<b>87</b>	<b>96</b>	44	<b>1</b>
9	Ill. 1919.....	<b>122</b>	19	82	77	<b>95</b>	50	<b>3</b>
10	Ill. 1921.....	<b>122</b>	20	81	<b>92</b>	<b>95</b>	48	<b>1</b>
11	Ill. 1511.....	<b>121</b>	18	83	74	<b>97</b>	51	4
12	Ill. 1966.....	<b>121</b>	18	82	84	<b>94</b>	46	<b>1</b>
13	Ill. 1968.....	<b>121</b>	17	83	85	<b>95</b>	49	<b>0</b>
14	Ill. 1570.....	<b>120</b>	19	81	73	<b>97</b>	50	4
15	Ill. 1928.....	<b>120</b>	21	80	<b>87</b>	<b>95</b>	53	<b>1</b>
16	Ill. 1277.....	<b>119</b>	18	<b>84</b>	84	<b>96</b>	45	<b>1</b>
17	Ill. 1875.....	<b>119</b>	19	81	79	93	52	7
18	Ill. 1969.....	<b>119</b>	18	83	<b>93</b>	<b>96</b>	47	<b>1</b>
19	AES 704.....	116	18	81	<b>97</b>	93	44	<b>2</b>
20	Ill. 1868.....	116	19	82	<b>89</b>	<b>96</b>	45	<b>1</b>
21	Ill. 21.....	114	18	83	74	<b>94</b>	48	<b>1</b>
22	Ill. 1967.....	114	18	81	<b>91</b>	<b>95</b>	49	<b>2</b>
23	Iowa 4297.....	114	18	82	80	<b>99</b>	45	<b>2</b>
24	AES 702.....	112	18	80	82	92	46	<b>0</b>
25	Ill. 1863.....	112	18	83	<b>94</b>	<b>96</b>	<b>39</b>	<b>1</b>
26	Ill. 1555A.....	111	<b>15</b>	81	85	<b>95</b>	44	<b>2</b>
27	Ill. 1814.....	110	19	82	<b>91</b>	93	42	<b>1</b>
28	Ill. 1936.....	110	18	82	<b>90</b>	<b>94</b>	44	<b>1</b>
29	Ill. 3028.....	104	18	82	<b>90</b>	<b>96</b>	<b>41</b>	<b>1</b>
	Average.....	118	18	82	84	96	47	2
<b>B — Two-year averages, 1957-1958</b>								
1	AES 805.....	<b>134</b>	20	80	75	<b>96</b>	48	<b>1</b>
2	Ill. 3010.....	<b>130</b>	20	80	84	<b>99</b>	48	<b>1</b>
3	Ill. 3026.....	<b>130</b>	21	80	<b>89</b>	<b>96</b>	42	<b>1</b>
4	Ill. 3042.....	<b>130</b>	22	79	<b>90</b>	<b>93</b>	48	<b>1</b>
5	Ill. 3023A.....	<b>128</b>	18	<b>82</b>	<b>86</b>	<b>97</b>	<b>40</b>	<b>0</b>
6	Ill. 3027.....	<b>128</b>	20	<b>82</b>	82	<b>99</b>	43	<b>2</b>
7	Ill. 3029.....	<b>127</b>	20	80	<b>87</b>	<b>94</b>	42	<b>0</b>
8	Ill. 274-1.....	<b>126</b>	18	<b>82</b>	73	<b>94</b>	52	<b>0</b>
9	Ill. 1332.....	<b>126</b>	19	<b>82</b>	78	<b>98</b>	48	<b>2</b>
10	Ill. 1970.....	<b>126</b>	20	<b>84</b>	68	<b>98</b>	46	<b>1</b>
11	Ill. 3014.....	<b>126</b>	22	80	74	<b>97</b>	50	<b>1</b>
12	Ill. 3035.....	<b>126</b>	20	<b>83</b>	80	<b>96</b>	42	<b>2</b>
13	Iowa 4880.....	<b>126</b>	19	80	<b>92</b>	<b>92</b>	44	<b>0</b>
14	Ill. 3022.....	<b>125</b>	20	<b>82</b>	<b>86</b>	<b>92</b>	45	<b>0</b>
15	Ill. 3032.....	<b>125</b>	18	<b>82</b>	<b>88</b>	<b>97</b>	42	<b>0</b>
16	Ill. 3039.....	<b>125</b>	20	80	<b>89</b>	<b>96</b>	44	<b>0</b>
17	Ill. 3021.....	<b>124</b>	22	80	<b>92</b>	<b>96</b>	44	<b>1</b>
18	Ill. 3160.....	<b>124</b>	20	<b>82</b>	<b>96</b>	<b>96</b>	44	<b>0</b>
19	Ill. 1575.....	<b>123</b>	19	<b>82</b>	72	<b>97</b>	44	<b>0</b>
20	Ill. 3017.....	<b>123</b>	20	80	<b>92</b>	<b>97</b>	44	<b>0</b>
21	Ill. 972A-1.....	<b>122</b>	21	80	68	<b>97</b>	52	<b>3</b>
22	Ill. 1971.....	<b>122</b>	20	<b>84</b>	78	<b>99</b>	47	<b>0</b>
23	Ill. 3019.....	<b>121</b>	19	80	85	<b>96</b>	44	<b>2</b>
24	Ill. 3020.....	<b>121</b>	20	80	<b>88</b>	<b>100</b>	<b>40</b>	<b>1</b>
25	Ill. 1511.....	120	20	<b>82</b>	68	<b>96</b>	50	<b>3</b>

(Table is continued on next page)

Table 4.—Continued

Rank in yield	Entry	Acre yield	Moisture in grain	Shelling	Erect plants	Stand	Ear height	Dropped ears
<b>B — Two-year averages, 1957-1958 — Concluded</b>								
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>perct.</i>
26	Ill. 1831	120	21	81	83	94	44	1
27	Ill. 1921	120	22	80	91	92	49	0
28	Ill. 1928	120	22	79	85	93	54	0
29	Ill. 1966	120	20	82	80	92	46	0
30	Ill. 1968	120	18	82	82	94	48	0
31	Ill. 3030	120	21	80	94	97	44	1
32	Ill. 3036	120	20	82	88	96	40	1
33	Ill. 3038	120	18	83	86	94	42	1
34	Ill. 3043	120	18	82	94	96	46	2
35	Ill. 3015A	119	20	79	88	100	45	0
36	Ill. 21	118	20	82	70	92	49	2
37	Ill. 1277	118	20	82	82	96	45	1
38	Ill. 3011	118	21	80	88	99	44	1
39	Ill. 3016	118	20	81	94	97	42	0
40	Ill. 3025	118	22	80	88	97	43	1
41	Ill. 3028	118	20	82	86	96	40	1
42	AES 704	117	20	80	97	90	43	2
43	Ill. 1570	117	20	79	67	96	50	3
44	Ill. 1969	117	20	82	92	96	47	1
45	Ill. 1919	116	21	81	70	96	50	2
46	Ill. 3018	116	20	81	87	96	44	2
47	Ill. 3034	116	20	80	82	95	39	2
48	Ill. 3044	116	20	80	88	97	45	0
49	Ill. 1868	114	21	81	86	94	44	1
50	Ill. 1875	114	21	80	73	90	53	2
51	Ill. 1967	114	20	80	88	94	48	0
52	Ill. 3047	114	18	81	88	96	44	1
53	Ill. 3124	114	20	82	90	94	46	0
54	Ill. 3024	112	20	78	96	94	42	2
55	Ill. 3045	111	18	82	92	94	46	0
56	Ill. 1863	110	20	82	94	95	38	0
57	Ill. 3048	110	18	82	94	90	46	0
58	Iowa 4297	110	20	81	74	98	45	2
59	AES 702	109	20	79	74	90	45	0
60	Ill. 1555A	106	16	78	80	93	44	2
61	Ill. 1936	106	20	81	88	90	42	1
62	Ill. 3046	106	18	80	90	90	46	0
63	Ill. 1814	105	21	80	88	90	40	0
	Average	119	20	81	84	95	45	1
<b>C — 1958 results (3 replications)</b>								
1	AES 805	147	18	82	71	100	54	2
2	Ill. 3015B	138	18	83	94	99	50	7
3	Ill. 3023B	138	18	84	87	99	49	0
4	Ill. 3179	138	18	85	74	100	53	2
5	Ill. 3029	137	20	82	86	100	45	0
6	Ill. 1511A-1	136	18	84	63	98	55	3
7	Ill. 3010	136	18	82	87	100	53	2
8	Ill. 3180	135	19	82	59	100	60	0
9	Ill. 3294	135	19	83	81	100	53	4
10	Ill. 3026	134	19	82	93	97	48	2
11	Ill. 1831	133	19	83	86	100	50	2
12	Ill. 3042	133	21	81	88	99	51	2
13	Ill. 3160	133	18	84	99	98	49	1
14	Ill. 3291	133	18	84	87	100	49	2
15	Ill. 274-1	132	16	84	79	98	56	1
16	Ill. 1332	132	17	84	79	98	54	4
17	Ill. 1575	132	18	85	73	100	49	0
18	Ill. 3014	132	19	82	71	100	53	2
19	Ill. 3021	132	19	83	91	100	48	2
20	Ill. 3039	132	18	81	90	99	47	1
21	Ill. 3187	132	19	84	56	99	62	3
22	Ill. 3293	132	18	83	80	99	52	5
23	Iowa 4989	132	17	82	98	98	50	0
24	Ill. 1921	131	19	82	90	100	53	1
25	Ill. 3017	131	18	82	92	99	48	1

(Table is concluded on next page)

Table 4. — Concluded

Rank in yield	Entry	Acre yield	Mois- ture in grain	Shell- ing	Erect plants	Stand	Ear height	Dropped ears
<b>C — 1958 results (3 replications) — Concluded</b>								
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>perct.</i>
26	Ill. 3022.....	131	18	83	<b>89</b>	97	50	<b>1</b>
27	Ill. 3181.....	131	20	83	53	96	58	<b>0</b>
28	Ill. 3184.....	131	20	84	78	<b>100</b>	54	<b>0</b>
29	AES 704.....	130	19	82	<b>98</b>	98	48	3
30	Ill. 1919.....	130	18	84	73	<b>100</b>	55	4
31	Ill. 3011.....	130	18	82	<b>85</b>	<b>100</b>	48	2
32	Ill. 3023A.....	130	17	84	<b>86</b>	98	<b>46</b>	<b>1</b>
33	Ill. 3038.....	130	17	86	<b>80</b>	98	<b>47</b>	2
34	Ill. 6052.....	130	18	82	72	<b>100</b>	63	3
35	Iowa 4880.....	130	17	81	<b>95</b>	93	49	<b>0</b>
36	Ill. 1277.....	129	18	84	<b>84</b>	99	50	2
37	Ill. 1966.....	129	17	83	<b>82</b>	98	51	<b>1</b>
38	Ill. 3015A.....	129	18	82	<b>89</b>	99	49	<b>1</b>
39	Ill. 3027.....	129	18	84	<b>90</b>	<b>100</b>	<b>46</b>	3
40	Ill. 3032.....	129	17	85	<b>87</b>	99	<b>46</b>	<b>1</b>
41	Iowa 4991.....	129	18	82	<b>96</b>	<b>100</b>	48	<b>0</b>
42	Ill. 1968.....	128	17	85	<b>89</b>	<b>100</b>	51	<b>0</b>
43	Ill. 1970.....	128	18	86	73	99	50	2
44	Ill. 3016.....	128	18	83	<b>94</b>	<b>100</b>	<b>47</b>	<b>1</b>
45	Ill. 3030.....	128	18	82	<b>93</b>	98	49	2
46	Ill. 3036.....	128	18	84	<b>93</b>	99	<b>45</b>	2
47	Ill. 3028.....	127	18	84	<b>86</b>	99	<b>46</b>	2
48	Ill. 3183.....	127	21	81	<b>84</b>	<b>100</b>	52	<b>1</b>
49	Ill. 3186.....	127	20	86	67	<b>100</b>	54	<b>1</b>
50	Ill. 21-4.....	126	18	83	63	98	52	3
51	Ill. 1967.....	126	16	82	<b>89</b>	<b>100</b>	51	<b>1</b>
52	Ill. 3025.....	126	19	81	<b>87</b>	99	<b>46</b>	2
53	Ill. 3035.....	126	18	84	76	98	<b>47</b>	3
54	Ill. 3188.....	126	19	84	70	97	58	<b>1</b>
55	Ill. 972A-1.....	125	19	83	64	99	56	6
56	Ill. 1511.....	125	18	85	61	<b>100</b>	54	6
57	Ill. 1868.....	125	18	84	78	<b>100</b>	49	2
58	Ill. 3020.....	125	18	82	<b>89</b>	<b>100</b>	<b>43</b>	2
59	Ill. 3043.....	125	17	84	<b>95</b>	98	50	4
60	Ill. 3044.....	125	17	83	<b>86</b>	98	50	<b>1</b>
61	Ill. 3124.....	125	18	85	<b>90</b>	<b>100</b>	50	<b>0</b>
62	Ill. 3182.....	125	19	83	68	99	54	2
63	Ill. 21-3.....	124	19	81	55	99	58	<b>1</b>
64	Ill. 1969.....	124	18	85	<b>92</b>	<b>100</b>	51	2
65	Ill. 1971.....	124	17	85	<b>85</b>	<b>100</b>	51	<b>0</b>
66	Ill. 3292.....	124	19	83	<b>84</b>	99	52	2
67	Ill. 21-2.....	123	17	81	59	<b>100</b>	58	5
68	Ill. 1555A.....	123	15	82	<b>85</b>	<b>100</b>	48	3
69	Ill. 1875.....	123	18	83	65	99	57	4
70	Ill. 1928.....	123	19	82	<b>84</b>	97	59	<b>0</b>
71	Ill. 3185.....	123	20	83	45	<b>100</b>	57	2
72	Ill. 1570.....	122	18	81	67	<b>100</b>	53	6
73	Ill. 2249W.....	122	19	84	74	98	55	11
74	Ill. 3019.....	122	17	80	<b>82</b>	96	<b>47</b>	3
75	Iowa 4297.....	122	17	82	72	98	49	4
76	Ill. 21.....	121	18	84	60	96	54	3
77	Ill. 1936.....	121	17	84	<b>88</b>	99	<b>47</b>	2
78	Ill. 3018.....	121	17	82	<b>84</b>	97	48	3
79	Ill. 1814.....	120	18	83	<b>89</b>	99	<b>45</b>	<b>1</b>
80	Ill. 3046.....	120	16	84	<b>87</b>	97	52	<b>1</b>
81	Ill. 6021.....	120	18	83	73	<b>100</b>	61	7
82	Ill. 1863.....	119	18	84	<b>94</b>	<b>100</b>	<b>43</b>	<b>0</b>
83	Ill. 3047.....	118	16	84	<b>92</b>	99	<b>46</b>	2
84	Ill. 3034.....	118	19	81	<b>81</b>	99	<b>42</b>	3
85	Ill. 3048.....	118	16	84	<b>95</b>	99	49	<b>0</b>
86	Ill. 3024.....	115	18	80	<b>96</b>	95	<b>45</b>	4
87	AES 702.....	114	19	81	77	98	50	<b>1</b>
88	Ill. 3045.....	112	16	84	<b>88</b>	99	51	<b>0</b>
89	Ill. 3057.....	110	17	84	<b>86</b>	99	49	<b>0</b>
90	Nebr. 1781C.....	110	20	83	72	99	<b>44</b>	5
	Average.....	127	18	83	81	99	51	2

Table 5.—THREE-WAY, SINGLE, AND DOUBLE CROSSES OF ILLINOIS 21 MATURITY

Tested in North-Central Illinois, 1958

(Data in boldface were not statistically different from the best performance for that characteristic)

Code	Entry	Acre yield	Moisture in grain	Shelling	Erect plants	Stand	Ear height	Dropped ears
<b>A — Inbred lines crossed with (WF9×B14)</b>								
		<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>	<i>in.</i>	<i>percl.</i>
1	R165	129	18	85	72	<b>100</b>	48	<b>0</b>
2	R174	<b>133</b>	20	84	82	<b>99</b>	49	<b>1</b>
3	R184	128	19	83	<b>87</b>	96	52	<b>2</b>
4	R185	114	18	80	73	<b>98</b>	48	<b>3</b>
5	B42	<b>137</b>	18	84	<b>92</b>	<b>99</b>	51	<b>2</b>
6	B43	119	19	85	73	<b>98</b>	51	<b>3</b>
7	B46	118	18	81	<b>95</b>	<b>97</b>	<b>46</b>	<b>1</b>
8	Oh7K	120	20	81	72	96	48	<b>2</b>
	Average	125	19	83	81	98	49	2
<b>B — Inbred lines crossed with (Oh28×Oh43)</b>								
9	R103	<b>141</b>	18	85	82	<b>99</b>	<b>46</b>	<b>2</b>
10	R165	125	20	86	38	<b>98</b>	<b>46</b>	<b>0</b>
11	R174	<b>131</b>	20	80	78	<b>100</b>	<b>46</b>	<b>2</b>
12	R185	126	19	81	69	<b>100</b>	50	<b>1</b>
13	B42	124	19	85	<b>87</b>	<b>99</b>	<b>46</b>	<b>1</b>
14	B43	<b>139</b>	21	85	77	<b>98</b>	52	<b>0</b>
15	B46	<b>131</b>	18	82	<b>86</b>	<b>100</b>	<b>43</b>	<b>1</b>
16	H49	127	20	83	<b>92</b>	<b>99</b>	<b>46</b>	<b>1</b>
17	Oh7K	124	20	82	58	<b>100</b>	<b>46</b>	<b>1</b>
	Average	130	19	83	74	99	47	1
<b>C — Single crosses</b>								
19	Oh28×Oh43	<b>134</b>	17	84	<b>91</b>	<b>99</b>	<b>43</b>	<b>0</b>
18	WF9×B14	128	16	83	<b>99</b>	95	50	5
	Average	131	16	84	95	97	46	2
<b>D — Double crosses</b>								
21	AES 702	129	18	84	82	<b>99</b>	51	6
20	Ill. 3028	126	17	79	<b>85</b>	<b>97</b>	<b>45</b>	<b>3</b>
	Average	128	18	82	84	98	48	4
Average of 21 entries		128	19	83	80	98	48	2



Table 6. — DOUBLE CROSSES OF ILLINOIS 1570 MATURITY  
Tested in Central Illinois (Field A), 1956-1958

(Data in boldface were not statistically different  
from the best performance for that characteristic)

Rank in yield	Entry	Acre yield	Mois- ture in grain	Shell- ing	Erect plants	Stand	Ear height	Dropped ears	Smut
<b>A — Three-year averages, 1956-1958</b>									
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>perct.</i>	<i>perct.</i>
1	AES 810.....	<b>126</b>	<b>18</b>	<b>84</b>	<b>93</b>	<b>96</b>	45	<b>1</b>	<b>4</b>
2	Ill. 274-1.....	<b>124</b>	<b>18</b>	<b>84</b>	<b>90</b>	<b>96</b>	48	<b>1</b>	<b>2</b>
3	Ill. 1916.....	<b>124</b>	<b>18</b>	<b>84</b>	<b>87</b>	<b>99</b>	49	<b>2</b>	<b>7</b>
4	Ill. 1919.....	<b>124</b>	<b>18</b>	83	83	<b>96</b>	46	<b>2</b>	<b>6</b>
5	Ill. 1975.....	<b>124</b>	21	80	76	<b>98</b>	55	<b>2</b>	<b>3</b>
6	Ill. 1332.....	<b>123</b>	19	83	<b>89</b>	<b>97</b>	47	<b>3</b>	<b>1</b>
7	Ill. 1511.....	<b>123</b>	20	83	<b>86</b>	<b>98</b>	50	<b>6</b>	<b>4</b>
8	Ill. 1893.....	<b>123</b>	<b>18</b>	81	<b>90</b>	<b>94</b>	50	<b>2</b>	<b>5</b>
9	Ill. 1921.....	<b>123</b>	19	82	<b>93</b>	<b>98</b>	45	<b>2</b>	<b>2</b>
10	AES 805.....	<b>122</b>	19	83	<b>89</b>	<b>97</b>	46	<b>1</b>	<b>5</b>
11	Ill. 1813.....	<b>122</b>	20	83	<b>96</b>	<b>94</b>	45	<b>3</b>	<b>1</b>
12	Ill. 1909.....	<b>122</b>	<b>17</b>	<b>85</b>	83	<b>99</b>	48	<b>3</b>	<b>3</b>
13	Ill. 972A-1.....	<b>121</b>	<b>18</b>	82	<b>91</b>	<b>100</b>	48	<b>2</b>	<b>2</b>
14	Ill. 1889.....	<b>121</b>	<b>18</b>	81	<b>87</b>	<b>99</b>	47	<b>2</b>	<b>8</b>
15	Ill. 1890.....	<b>121</b>	<b>18</b>	<b>84</b>	<b>90</b>	<b>96</b>	<b>44</b>	<b>2</b>	<b>3</b>
16	AES 811W.....	<b>120</b>	19	80	<b>92</b>	<b>98</b>	<b>44</b>	<b>2</b>	<b>2</b>
17	Ill. 1928.....	<b>120</b>	19	83	<b>90</b>	<b>96</b>	49	<b>2</b>	<b>4</b>
18	Ill. 1656.....	<b>119</b>	<b>18</b>	83	85	<b>97</b>	48	<b>3</b>	<b>2</b>
19	Ill. 1918.....	<b>118</b>	19	<b>84</b>	<b>88</b>	<b>99</b>	47	<b>2</b>	<b>1</b>
20	Ill. 1922.....	<b>118</b>	20	80	<b>94</b>	<b>98</b>	<b>44</b>	<b>2</b>	<b>2</b>
21	AES 702.....	<b>117</b>	20	81	<b>89</b>	<b>99</b>	<b>44</b>	<b>3</b>	<b>1</b>
22	AES 809.....	<b>117</b>	20	83	<b>94</b>	<b>95</b>	<b>40</b>	<b>1</b>	<b>2</b>
23	Ill. 1880.....	<b>117</b>	<b>18</b>	83	<b>88</b>	<b>98</b>	46	<b>2</b>	<b>2</b>
24	Ill. 1927.....	<b>116</b>	20	81	<b>92</b>	<b>97</b>	45	<b>2</b>	<b>2</b>
25	Ill. 1973.....	<b>116</b>	19	<b>84</b>	<b>88</b>	<b>99</b>	46	<b>1</b>	<b>1</b>
26	Ill. 1926.....	<b>115</b>	<b>17</b>	81	<b>93</b>	<b>96</b>	46	<b>3</b>	<b>2</b>
27	Ill. 1974.....	<b>115</b>	19	<b>84</b>	85	<b>98</b>	48	<b>0</b>	<b>4</b>
28	Ill. 1570.....	114	19	82	77	<b>97</b>	48	<b>2</b>	<b>4</b>
29	U.S. 13.....	114	<b>18</b>	82	81	94	50	<b>4</b>	<b>2</b>
30	AES 808.....	112	19	83	80	<b>97</b>	<b>42</b>	<b>3</b>	<b>2</b>
31	Ill. 21.....	110	<b>18</b>	82	86	<b>97</b>	<b>43</b>	<b>1</b>	<b>2</b>
32	Ill. 1935.....	106	20	80	<b>95</b>	<b>97</b>	45	<b>1</b>	<b>7</b>
	Average.....	119	19	82	88	97	46	2	3
<b>B — Two-year averages, 1957-1958</b>									
1	A 102.....	<b>122</b>	23	81	80	<b>98</b>	47	<b>0</b>	<b>6</b>
2	Ill. 1332-3.....	<b>120</b>	22	81	<b>86</b>	<b>96</b>	48	<b>0</b>	<b>2</b>
3	Ill. 1921.....	<b>120</b>	<b>20</b>	80	<b>92</b>	<b>98</b>	46	<b>0</b>	<b>3</b>
4	Ill. 3104.....	<b>120</b>	<b>19</b>	82	82	<b>98</b>	44	<b>1</b>	<b>2</b>
5	Ill. 3107.....	<b>119</b>	<b>20</b>	82	<b>84</b>	<b>100</b>	46	<b>1</b>	<b>5</b>
6	AES 810.....	<b>118</b>	<b>19</b>	82	<b>91</b>	<b>94</b>	46	<b>0</b>	<b>4</b>
7	Ill. 3049.....	<b>118</b>	<b>20</b>	82	<b>97</b>	<b>97</b>	44	<b>0</b>	<b>2</b>
8	Ill. 1852.....	<b>117</b>	22	79	78	<b>98</b>	52	<b>0</b>	<b>2</b>
9	Ill. 1985.....	<b>117</b>	<b>20</b>	81	76	<b>100</b>	48	<b>2</b>	<b>2</b>
10	Ill. 3093.....	<b>117</b>	<b>20</b>	80	<b>90</b>	<b>99</b>	46	<b>2</b>	<b>0</b>
11	AES 805.....	<b>116</b>	<b>21</b>	80	<b>89</b>	<b>96</b>	46	<b>0</b>	<b>6</b>
12	AES 811W.....	<b>116</b>	22	78	<b>90</b>	<b>98</b>	44	<b>1</b>	<b>2</b>
13	Ill. 274-1.....	<b>116</b>	<b>20</b>	<b>84</b>	<b>88</b>	<b>95</b>	48	<b>0</b>	<b>2</b>
14	Ill. 1332.....	<b>116</b>	<b>20</b>	82	<b>90</b>	<b>96</b>	46	<b>0</b>	<b>2</b>
15	Ill. 1976.....	<b>116</b>	22	79	81	<b>94</b>	49	<b>0</b>	<b>2</b>
16	Ill. 1978.....	<b>116</b>	22	78	76	<b>98</b>	50	<b>0</b>	<b>0</b>
17	Ill. 1981.....	<b>116</b>	<b>20</b>	80	<b>86</b>	<b>98</b>	50	<b>1</b>	<b>4</b>
18	Ill. 1982.....	<b>116</b>	22	80	75	<b>96</b>	51	<b>2</b>	<b>3</b>
19	Ill. 1984.....	<b>116</b>	22	79	<b>84</b>	<b>98</b>	46	<b>2</b>	<b>1</b>
20	Ill. 1991.....	<b>116</b>	22	80	<b>84</b>	<b>95</b>	47	<b>2</b>	<b>2</b>
21	Ill. 1995.....	<b>116</b>	22	<b>86</b>	76	<b>96</b>	48	<b>0</b>	<b>3</b>
22	Ill. 3115.....	<b>116</b>	<b>18</b>	82	<b>86</b>	<b>98</b>	48	<b>1</b>	<b>3</b>
23	Ill. 3117.....	<b>116</b>	<b>20</b>	<b>84</b>	<b>84</b>	<b>98</b>	45	<b>0</b>	<b>6</b>
24	A 101.....	<b>116</b>	22	<b>83</b>	83	<b>98</b>	48	<b>0</b>	<b>4</b>
25	Ill. 1916.....	<b>115</b>	<b>20</b>	<b>83</b>	<b>84</b>	<b>98</b>	50	<b>0</b>	<b>7</b>

(Table is continued on next page)

Table 6. — Continued

Rank in yield	Entry	Acre yield	Mois- ture in grain	Shell- ing	Erect plants	Stand	Ear height	Dropped ears	Smut
<b>B — Two-year averages, 1957-1958 — Continued</b>									
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>perct.</i>	<i>perct.</i>
26	Ill. 1975.....	<b>115</b>	23	78	70	<b>98</b>	52	<b>2</b>	<b>2</b>
27	Ill. 972A-1.....	<b>114</b>	<b>20</b>	82	<b>90</b>	<b>100</b>	49	<b>1</b>	<b>2</b>
28	Ill. 1813.....	<b>114</b>	<b>21</b>	81	<b>96</b>	<b>94</b>	46	<b>1</b>	<b>0</b>
29	Ill. 1856.....	<b>114</b>	27	80	82	<b>98</b>	54	<b>0</b>	<b>6</b>
30	Ill. 1919.....	<b>114</b>	<b>20</b>	82	80	<b>98</b>	46	<b>2</b>	<b>6</b>
31	Ill. 1928.....	<b>114</b>	<b>21</b>	82	<b>88</b>	<b>96</b>	50	<b>1</b>	<b>3</b>
32	Ill. 1983.....	<b>114</b>	<b>20</b>	<b>84</b>	<b>90</b>	<b>99</b>	46	<b>1</b>	<b>2</b>
33	Ill. 3101.....	<b>114</b>	<b>19</b>	82	78	<b>97</b>	46	<b>1</b>	<b>2</b>
34	Ill. 3105.....	<b>114</b>	<b>18</b>	<b>83</b>	76	<b>98</b>	48	<b>0</b>	<b>2</b>
35	Ill. 1656-1.....	<b>113</b>	<b>20</b>	80	<b>84</b>	<b>98</b>	46	<b>2</b>	<b>2</b>
36	Ill. 3077.....	<b>113</b>	<b>19</b>	80	72	<b>98</b>	48	<b>4</b>	<b>3</b>
37	AES 702.....	<b>112</b>	22	80	<b>90</b>	<b>99</b>	44	<b>1</b>	<b>0</b>
38	AES 809.....	<b>112</b>	22	82	<b>92</b>	<b>94</b>	<b>41</b>	<b>0</b>	<b>2</b>
39	Ill. 1332-2.....	<b>112</b>	<b>20</b>	80	<b>84</b>	<b>94</b>	46	<b>0</b>	<b>2</b>
40	Ill. 1332-4.....	<b>112</b>	<b>20</b>	81	<b>86</b>	<b>98</b>	46	<b>0</b>	<b>4</b>
41	Ill. 1511.....	<b>112</b>	22	81	83	<b>98</b>	50	<b>4</b>	<b>2</b>
42	Ill. 1570-1.....	<b>112</b>	<b>20</b>	80	78	<b>99</b>	46	<b>2</b>	<b>4</b>
43	Ill. 1656.....	<b>112</b>	<b>20</b>	82	83	<b>96</b>	47	<b>2</b>	<b>2</b>
44	Ill. 1656-2.....	<b>112</b>	<b>20</b>	82	79	<b>96</b>	47	<b>2</b>	<b>4</b>
45	Ill. 1880.....	<b>112</b>	<b>20</b>	82	<b>86</b>	<b>98</b>	46	<b>2</b>	<b>3</b>
46	Ill. 1889.....	<b>112</b>	<b>19</b>	79	<b>84</b>	<b>98</b>	48	<b>2</b>	<b>8</b>
47	Ill. 1890.....	<b>112</b>	<b>20</b>	82	<b>88</b>	<b>94</b>	44	<b>0</b>	<b>4</b>
48	Ill. 1909.....	<b>112</b>	<b>18</b>	<b>84</b>	82	<b>98</b>	47	<b>2</b>	<b>3</b>
49	Ill. 1922.....	<b>112</b>	22	79	<b>94</b>	<b>97</b>	44	<b>0</b>	<b>2</b>
50	Ill. 1996.....	<b>112</b>	22	80	<b>91</b>	<b>96</b>	47	<b>0</b>	<b>0</b>
51	Ill. 1997.....	<b>112</b>	22	80	<b>88</b>	92	48	<b>0</b>	<b>2</b>
52	Ill. 3055.....	<b>112</b>	<b>20</b>	82	<b>87</b>	<b>98</b>	45	<b>0</b>	<b>2</b>
53	Ill. 3076.....	<b>112</b>	<b>20</b>	81	<b>86</b>	<b>96</b>	46	<b>2</b>	<b>2</b>
54	Ill. 3091.....	<b>112</b>	22	79	76	<b>98</b>	48	<b>2</b>	<b>1</b>
55	Ill. 3092.....	<b>112</b>	<b>21</b>	80	<b>90</b>	<b>96</b>	46	<b>2</b>	<b>3</b>
56	Ill. 3112.....	<b>112</b>	<b>20</b>	80	<b>88</b>	<b>94</b>	46	<b>0</b>	<b>4</b>
57	Ill. 3118.....	<b>112</b>	<b>20</b>	81	<b>87</b>	<b>100</b>	47	<b>3</b>	<b>4</b>
58	Ind. 6833.....	<b>112</b>	<b>20</b>	81	82	<b>98</b>	46	<b>4</b>	<b>4</b>
59	Ill. 3075.....	<b>111</b>	<b>21</b>	<b>83</b>	<b>92</b>	<b>99</b>	47	<b>1</b>	<b>4</b>
60	Ill. 3080.....	<b>111</b>	22	80	<b>85</b>	<b>98</b>	47	<b>1</b>	<b>2</b>
61	Ill. 3114.....	<b>111</b>	22	80	78	<b>96</b>	48	<b>2</b>	<b>4</b>
62	Ill. 3119.....	<b>111</b>	23	81	<b>90</b>	<b>100</b>	46	<b>0</b>	<b>3</b>
63	Ill. 1570-2.....	<b>110</b>	22	80	77	<b>98</b>	48	<b>0</b>	<b>4</b>
64	Ill. 1893.....	<b>110</b>	<b>20</b>	80	<b>88</b>	93	51	<b>2</b>	<b>4</b>
65	Ill. 1918.....	<b>110</b>	<b>20</b>	82	<b>86</b>	<b>100</b>	48	<b>1</b>	<b>2</b>
66	Ill. 1944.....	<b>110</b>	22	78	<b>95</b>	<b>96</b>	50	<b>0</b>	9
67	Ill. 1945.....	<b>110</b>	24	82	80	<b>98</b>	52	<b>0</b>	16
68	Ill. 1946.....	<b>110</b>	23	82	82	<b>99</b>	52	<b>0</b>	<b>6</b>
69	Ill. 1974.....	<b>110</b>	<b>20</b>	<b>83</b>	81	<b>98</b>	50	<b>0</b>	<b>4</b>
70	Ill. 1986.....	<b>110</b>	<b>20</b>	81	<b>87</b>	<b>96</b>	44	<b>1</b>	<b>1</b>
71	Ill. 1987.....	<b>110</b>	<b>21</b>	79	<b>86</b>	<b>98</b>	46	<b>2</b>	<b>2</b>
72	Ill. 1989.....	<b>110</b>	<b>20</b>	78	<b>92</b>	<b>96</b>	<b>42</b>	<b>1</b>	<b>2</b>
73	Ill. 1994.....	<b>110</b>	22	78	<b>92</b>	<b>96</b>	46	<b>0</b>	<b>2</b>
74	Ill. 3062.....	<b>110</b>	<b>19</b>	<b>84</b>	<b>86</b>	<b>98</b>	48	<b>1</b>	<b>4</b>
75	Ill. 3084.....	<b>110</b>	<b>21</b>	79	<b>89</b>	<b>97</b>	46	<b>0</b>	<b>2</b>
76	Ill. 3086.....	<b>110</b>	<b>20</b>	82	<b>90</b>	<b>96</b>	44	<b>2</b>	<b>2</b>
77	Ill. 3121.....	<b>110</b>	<b>19</b>	82	<b>96</b>	<b>96</b>	44	<b>0</b>	<b>3</b>
78	Ill. 3124.....	<b>110</b>	22	80	<b>96</b>	<b>99</b>	44	<b>0</b>	<b>2</b>
79	Ill. 1926.....	<b>109</b>	<b>18</b>	80	<b>94</b>	<b>96</b>	47	<b>1</b>	<b>2</b>
80	Ill. 1992.....	<b>109</b>	23	78	<b>90</b>	<b>94</b>	47	<b>0</b>	<b>0</b>
81	Ill. 3116.....	<b>109</b>	<b>18</b>	82	<b>88</b>	<b>100</b>	44	<b>2</b>	<b>4</b>
82	Ill. 3151.....	<b>109</b>	<b>20</b>	80	<b>89</b>	<b>97</b>	48	<b>1</b>	<b>3</b>
83	Ill. 21.....	<b>108</b>	<b>19</b>	82	<b>84</b>	<b>98</b>	45	<b>2</b>	<b>2</b>
84	Ill. 1570A.....	<b>108</b>	<b>21</b>	80	78	<b>98</b>	46	<b>2</b>	<b>2</b>
85	Ill. 1927.....	<b>108</b>	22	80	<b>90</b>	<b>96</b>	44	<b>1</b>	<b>2</b>
86	Ill. 1942.....	<b>108</b>	23	79	82	<b>96</b>	51	<b>0</b>	14
87	Ill. 1973.....	<b>108</b>	<b>20</b>	<b>84</b>	<b>86</b>	<b>99</b>	46	<b>0</b>	<b>0</b>
88	Ill. 1980.....	<b>108</b>	<b>19</b>	80	<b>88</b>	<b>96</b>	48	<b>2</b>	<b>4</b>
89	Ill. 1988.....	<b>108</b>	22	80	82	<b>96</b>	45	<b>0</b>	<b>0</b>
90	Ill. 1990.....	<b>108</b>	<b>20</b>	82	<b>90</b>	<b>97</b>	<b>39</b>	<b>0</b>	<b>2</b>

(Table is continued on next page)

Table 6. — Continued

Rank in yield	Entry	Acre yield	Mois- ture in grain	Shell- ing	Erect plants	Stand	Ear height	Dropped ears	Smut
<b>B — Two-year averages, 1957-1958 — Concluded</b>									
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>perct.</i>	<i>perct.</i>
91	Ill. 1993.....	<b>108</b>	<b>20</b>	79	<b>84</b>	<b>96</b>	45	<b>0</b>	<b>2</b>
92	Ill. 3052.....	<b>108</b>	<b>19</b>	82	<b>84</b>	<b>98</b>	<b>43</b>	<b>2</b>	<b>2</b>
93	Ill. 3056.....	<b>108</b>	<b>18</b>	<b>83</b>	<b>88</b>	<b>98</b>	44	<b>0</b>	<b>3</b>
94	Ill. 3065.....	<b>108</b>	<b>18</b>	<b>84</b>	81	<b>98</b>	48	<b>0</b>	<b>3</b>
95	Ill. 3083.....	<b>108</b>	<b>21</b>	82	<b>94</b>	<b>98</b>	44	<b>0</b>	<b>2</b>
96	Ill. 3087.....	<b>108</b>	<b>20</b>	<b>83</b>	<b>88</b>	<b>98</b>	<b>42</b>	<b>2</b>	<b>1</b>
97	Ill. 3094.....	<b>108</b>	22	80	<b>92</b>	<b>98</b>	49	<b>2</b>	<b>4</b>
98	Ill. 3109.....	<b>108</b>	<b>19</b>	<b>83</b>	<b>86</b>	<b>96</b>	44	<b>0</b>	<b>4</b>
99	Ill. 1851.....	<b>107</b>	22	77	<b>84</b>	93	52	<b>0</b>	<b>2</b>
100	Ill. 3088.....	<b>107</b>	<b>20</b>	82	<b>88</b>	<b>94</b>	44	<b>0</b>	<b>2</b>
101	Ill. 3100.....	<b>107</b>	<b>20</b>	<b>84</b>	<b>96</b>	<b>96</b>	45	<b>0</b>	9
102	Ill. 3108.....	<b>107</b>	<b>20</b>	<b>84</b>	<b>89</b>	<b>94</b>	47	<b>0</b>	<b>4</b>
103	AES 808.....	106	<b>20</b>	82	74	<b>98</b>	<b>43</b>	<b>2</b>	<b>3</b>
104	Ill. 1857.....	106	26	76	76	<b>98</b>	54	<b>2</b>	<b>4</b>
105	Ill. 3070.....	106	22	80	<b>86</b>	<b>97</b>	48	<b>0</b>	<b>3</b>
106	Ill. 3082.....	106	<b>20</b>	80	<b>91</b>	<b>95</b>	44	<b>2</b>	<b>3</b>
107	Ill. 3110.....	106	22	82	83	<b>98</b>	50	<b>1</b>	<b>5</b>
108	U.S. 13.....	106	<b>20</b>	80	78	<b>94</b>	49	<b>2</b>	<b>2</b>
109	Ill. 1570.....	105	<b>21</b>	80	74	<b>96</b>	46	<b>0</b>	<b>4</b>
110	Ill. 1947.....	105	22	82	<b>84</b>	<b>94</b>	49	<b>0</b>	<b>6</b>
111	Ill. 3050.....	105	<b>20</b>	80	<b>86</b>	<b>95</b>	45	<b>0</b>	<b>0</b>
112	Ill. 3074.....	105	<b>21</b>	82	<b>94</b>	<b>99</b>	46	<b>0</b>	<b>5</b>
113	Ill. 3113.....	105	<b>18</b>	82	<b>90</b>	<b>97</b>	<b>42</b>	<b>0</b>	<b>2</b>
114	Ill. 1660.....	104	30	77	<b>88</b>	<b>96</b>	56	<b>0</b>	<b>2</b>
115	Ill. 1925.....	104	<b>20</b>	82	<b>92</b>	<b>98</b>	<b>42</b>	<b>0</b>	<b>2</b>
116	Ill. 1935.....	104	22	78	<b>92</b>	<b>98</b>	46	<b>0</b>	<b>6</b>
117	Ill. 1977.....	104	22	80	80	<b>97</b>	47	<b>1</b>	<b>4</b>
118	Ill. 3054.....	104	<b>19</b>	80	83	<b>99</b>	45	<b>0</b>	<b>2</b>
119	Ill. 3095.....	104	<b>20</b>	81	<b>84</b>	<b>98</b>	46	<b>1</b>	<b>2</b>
120	Ill. 3097.....	104	<b>19</b>	80	78	<b>98</b>	46	<b>1</b>	<b>6</b>
121	Ill. 3106.....	104	22	80	<b>89</b>	<b>97</b>	44	<b>0</b>	<b>4</b>
122	Ind. 6623.....	104	<b>20</b>	78	<b>84</b>	<b>98</b>	48	<b>1</b>	<b>6</b>
123	Ill. 1943.....	102	22	79	<b>90</b>	<b>95</b>	46	<b>0</b>	<b>4</b>
124	Ill. 1951.....	102	<b>20</b>	82	<b>84</b>	<b>96</b>	50	<b>0</b>	<b>4</b>
125	Ill. 3051.....	102	<b>20</b>	81	<b>92</b>	92	46	<b>0</b>	<b>2</b>
126	Ill. 3061.....	102	<b>19</b>	<b>84</b>	<b>85</b>	<b>98</b>	44	<b>0</b>	<b>4</b>
127	Ill. 3096.....	102	<b>21</b>	79	<b>92</b>	<b>96</b>	<b>42</b>	<b>0</b>	<b>2</b>
128	Ill. 3111.....	102	<b>19</b>	82	<b>90</b>	<b>96</b>	45	<b>0</b>	<b>3</b>
129	Ill. 3125.....	102	<b>21</b>	82	<b>91</b>	<b>98</b>	44	<b>0</b>	<b>3</b>
130	Ill. 1939.....	100	24	78	<b>92</b>	<b>98</b>	46	<b>1</b>	8
131	Ill. 3073.....	100	22	79	<b>91</b>	<b>98</b>	45	<b>0</b>	<b>6</b>
132	Ill. 3120.....	100	22	82	78	<b>98</b>	46	<b>1</b>	<b>4</b>
133	Ill. 3069.....	99	<b>21</b>	81	<b>94</b>	<b>98</b>	44	<b>0</b>	<b>4</b>
134	Ill. 3071.....	99	22	78	77	<b>96</b>	48	<b>0</b>	<b>2</b>
135	Ill. 1948.....	98	22	80	<b>84</b>	<b>96</b>	48	<b>0</b>	<b>6</b>
136	Ill. 3059.....	98	<b>21</b>	81	<b>90</b>	<b>98</b>	<b>42</b>	<b>0</b>	<b>2</b>
137	Ill. 3064.....	98	<b>21</b>	82	78	<b>96</b>	46	<b>2</b>	<b>4</b>
138	Ill. 1938.....	97	26	76	<b>94</b>	<b>96</b>	47	<b>0</b>	<b>2</b>
139	Ill. 3057.....	97	<b>20</b>	82	<b>91</b>	<b>96</b>	<b>43</b>	<b>0</b>	<b>3</b>
140	Ill. 3060.....	97	22	82	<b>84</b>	<b>97</b>	44	<b>0</b>	<b>6</b>
141	Ill. 3058.....	96	<b>20</b>	81	<b>92</b>	<b>97</b>	44	<b>1</b>	<b>3</b>
142	Ill. 1940.....	94	26	78	<b>91</b>	<b>98</b>	46	<b>0</b>	<b>3</b>
143	Ill. 2246W.....	92	<b>21</b>	78	81	<b>97</b>	51	4	6
	Average.....	109	21	81	86	97	47	1	3

(Table is continued on next page)

Table 6. — Continued

Rank in yield	Entry	Acre yield	Mois- ture in grain	Shell- ing	Erect plants	Stand	Ear height	Dropped ears	Smut
<b>C — 1958 results (3 replications)</b>									
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>perct.</i>	<i>perct.</i>
1	Ill. 3192B.....	<b>135</b>	20	83	81	<b>97</b>	56	<b>2</b>	<b>4</b>
2	Ill. 3190.....	<b>134</b>	22	83	90	<b>98</b>	54	<b>3</b>	<b>6</b>
3	Ill. 274-1.....	<b>132</b>	18	86	86	<b>100</b>	48	<b>0</b>	<b>4</b>
4	Ill. 3192A.....	<b>132</b>	19	83	82	<b>99</b>	58	<b>0</b>	<b>4</b>
5	Ill. 3183.....	<b>130</b>	20	84	94	<b>99</b>	45	<b>2</b>	<b>6</b>
6	Ill. 3192.....	<b>130</b>	21	83	76	<b>97</b>	55	<b>0</b>	<b>4</b>
7	Ill. 3189.....	<b>129</b>	19	85	85	<b>99</b>	52	<b>6</b>	<b>7</b>
8	Ill. 3107.....	<b>127</b>	19	85	85	<b>100</b>	48	<b>2</b>	<b>9</b>
9	Ill. 3182.....	<b>127</b>	20	90	85	<b>97</b>	44	<b>2</b>	<b>6</b>
10	Ill. 3186.....	<b>127</b>	19	85	89	<b>99</b>	49	<b>1</b>	<b>4</b>
11	Ill. 3298.....	<b>127</b>	21	82	88	<b>99</b>	49	<b>0</b>	<b>3</b>
12	Ill. 1921.....	<b>126</b>	18	83	<b>98</b>	<b>99</b>	46	<b>0</b>	<b>6</b>
13	Ill. 1984.....	<b>126</b>	19	81	91	<b>100</b>	46	<b>3</b>	<b>2</b>
14	Ill. 3104.....	<b>126</b>	18	85	87	<b>99</b>	44	<b>2</b>	<b>3</b>
15	Ill. 3151.....	<b>126</b>	18	85	93	<b>99</b>	50	<b>2</b>	<b>6</b>
16	Iowa 5115.....	<b>126</b>	19	84	90	<b>100</b>	47	<b>0</b>	<b>1</b>
17	A 102.....	<b>125</b>	19	84	79	<b>98</b>	49	<b>1</b>	12
18	Ill. 1919.....	<b>124</b>	17	85	87	<b>95</b>	47	<b>5</b>	11
19	Ill. 3011.....	<b>124</b>	18	86	91	<b>98</b>	42	<b>2</b>	<b>5</b>
20	Ill. 1916.....	<b>123</b>	16	86	86	<b>98</b>	51	<b>1</b>	<b>6</b>
21	Ill. 3117.....	<b>123</b>	17	86	89	<b>97</b>	47	<b>1</b>	10
22	Ill. 1813.....	<b>122</b>	20	84	97	<b>99</b>	47	<b>2</b>	<b>0</b>
23	Ill. 1992.....	<b>122</b>	20	82	90	<b>94</b>	47	<b>0</b>	<b>1</b>
24	Ill. 3049.....	<b>122</b>	20	83	<b>98</b>	<b>100</b>	42	<b>0</b>	<b>3</b>
25	Ill. 3075.....	<b>122</b>	17	86	91	<b>99</b>	47	<b>2</b>	<b>6</b>
26	Ill. 3115.....	<b>122</b>	16	86	93	<b>99</b>	49	<b>2</b>	<b>6</b>
27	AES 809.....	<b>121</b>	19	85	91	<b>97</b>	<b>37</b>	<b>1</b>	<b>4</b>
28	AES 811W.....	<b>121</b>	19	81	91	<b>97</b>	42	<b>2</b>	<b>4</b>
29	Ill. 972A-1.....	<b>121</b>	18	84	88	<b>100</b>	49	<b>2</b>	<b>4</b>
30	Ill. 1332.....	<b>121</b>	19	86	94	<b>98</b>	48	<b>1</b>	<b>4</b>
31	Ill. 3080.....	<b>121</b>	19	81	91	<b>98</b>	46	<b>2</b>	<b>1</b>
32	Ill. 3093.....	<b>121</b>	19	82	91	<b>99</b>	46	<b>3</b>	<b>0</b>
33	A 101.....	<b>121</b>	18	86	86	<b>98</b>	50	<b>0</b>	<b>6</b>
34	Ill. 1332-3.....	<b>120</b>	20	84	89	<b>93</b>	46	<b>1</b>	<b>4</b>
35	Ill. 1511.....	<b>120</b>	20	85	83	<b>97</b>	51	<b>7</b>	<b>2</b>
36	Ill. 1511A-1.....	<b>120</b>	18	85	78	<b>93</b>	51	<b>1</b>	12
37	Ill. 1922.....	<b>120</b>	20	83	96	<b>97</b>	42	<b>0</b>	<b>4</b>
38	Ill. 1985.....	<b>120</b>	20	82	85	<b>100</b>	48	<b>3</b>	<b>2</b>
39	Ill. 1987.....	<b>120</b>	20	83	89	<b>100</b>	49	<b>4</b>	<b>3</b>
40	Ill. 1989.....	<b>120</b>	19	81	94	<b>99</b>	42	<b>2</b>	<b>3</b>
41	Ill. 1856.....	<b>119</b>	20	83	91	<b>99</b>	53	<b>1</b>	10
42	Ill. 1976.....	<b>119</b>	20	82	88	<b>98</b>	48	<b>0</b>	<b>4</b>
43	Ill. 1978.....	<b>119</b>	19	83	74	<b>98</b>	55	<b>1</b>	<b>0</b>
44	Ill. 1981.....	<b>119</b>	18	84	87	<b>97</b>	50	<b>2</b>	<b>5</b>
45	Ill. 3074.....	<b>119</b>	19	86	97	<b>100</b>	47	<b>0</b>	<b>9</b>
46	Ill. 3076.....	<b>119</b>	18	84	89	<b>95</b>	45	<b>4</b>	<b>3</b>
47	Ill. 3101.....	<b>119</b>	19	84	89	<b>99</b>	47	<b>2</b>	<b>4</b>
48	Ill. 3118.....	<b>119</b>	18	85	89	<b>100</b>	46	<b>6</b>	<b>6</b>
49	Ill. 3119.....	<b>119</b>	18	85	93	<b>100</b>	48	<b>0</b>	<b>7</b>
50	Ind. 6623.....	<b>119</b>	19	81	84	<b>98</b>	48	<b>2</b>	12
51	Nebr. 2248.....	<b>119</b>	21	79	90	<b>97</b>	46	<b>3</b>	<b>1</b>
52	Ill. 1852.....	<b>118</b>	20	82	85	<b>96</b>	53	<b>1</b>	<b>3</b>
53	Ill. 1889.....	<b>118</b>	18	82	87	<b>97</b>	52	<b>5</b>	10
54	Ill. 1983.....	<b>118</b>	18	84	92	<b>98</b>	47	<b>2</b>	<b>1</b>
55	Ill. 1991.....	<b>118</b>	20	80	87	<b>98</b>	49	<b>3</b>	<b>3</b>
56	Ill. 3055.....	<b>118</b>	19	84	90	<b>97</b>	47	<b>0</b>	<b>5</b>
57	Ill. 3086.....	<b>118</b>	18	84	93	<b>98</b>	44	<b>3</b>	<b>1</b>
58	Ill. 3180.....	<b>118</b>	19	83	78	<b>99</b>	52	<b>0</b>	13
59	AES 805.....	<b>117</b>	20	83	89	<b>97</b>	46	<b>0</b>	11
60	AES 810.....	<b>117</b>	18	85	95	<b>91</b>	46	<b>1</b>	<b>7</b>
61	Ill. 1332-4.....	<b>117</b>	18	84	93	<b>96</b>	47	<b>1</b>	<b>7</b>
62	Ill. 1930.....	<b>117</b>	21	82	96	<b>97</b>	46	<b>0</b>	<b>3</b>
63	Ill. 1986.....	<b>117</b>	18	84	95	<b>98</b>	43	<b>2</b>	<b>2</b>
64	Ill. 1996.....	<b>117</b>	19	83	96	<b>95</b>	47	<b>1</b>	<b>1</b>
65	Ill. 3013.....	<b>117</b>	20	81	87	<b>98</b>	46	<b>0</b>	<b>2</b>

(Table is continued on next page)

Table 6. — Continued

Rank in yield	Entry	Acre yield	Mois- ture in grain	Shell- ing	Erect plants	Stand	Ear height	Dropped ears	Smut
<b>C — 1958 results (3 replications) — Continued</b>									
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>perct.</i>	<i>perct.</i>
66	Ill. 3053	<b>117</b>	18	83	93	<b>98</b>	43	<b>2</b>	5
67	Ill. 3299	<b>117</b>	21	83	95	<b>98</b>	45	<b>2</b>	5
68	Ill. 21	116	18	83	89	<b>99</b>	49	<b>3</b>	5
69	Ill. 1332-2	116	18	83	92	<b>93</b>	46	<b>1</b>	3
70	Ill. 1570-1	116	18	84	82	<b>98</b>	48	<b>3</b>	6
71	Ill. 1893	116	18	83	90	<b>96</b>	51	<b>4</b>	6
72	Ill. 1975	116	21	81	84	<b>99</b>	53	<b>4</b>	3
73	Ill. 1994	116	19	81	89	<b>99</b>	46	<b>1</b>	3
74	Ill. 1995	116	19	84	84	<b>96</b>	48	<b>1</b>	5
75	Ill. 3077	116	18	85	82	<b>98</b>	50	<b>7</b>	3
76	Ill. 3109	116	17	85	92	<b>95</b>	47	<b>1</b>	7
77	Ill. 3143	116	21	85	91	91	57	<b>1</b>	7
78	Ill. 3184	116	22	83	89	<b>98</b>	49	<b>1</b>	10
79	Ill. 3188	116	22	82	82	89	55	<b>2</b>	5
80	Ill. 3295	116	20	83	85	<b>96</b>	47	<b>5</b>	4
81	Ill. 3297	116	19	84	96	<b>100</b>	<b>41</b>	<b>2</b>	<b>1</b>
82	Ill. 1982	115	19	83	80	92	50	<b>4</b>	5
83	Ill. 1993	115	20	80	86	93	47	<b>0</b>	3
84	Ill. 3084	115	20	83	96	<b>97</b>	46	<b>1</b>	3
85	Ill. 3087	115	19	85	92	<b>99</b>	42	<b>3</b>	<b>2</b>
86	Ill. 3097	115	18	83	81	<b>100</b>	47	<b>2</b>	10
87	Ill. 3110	115	19	83	84	<b>98</b>	51	<b>2</b>	8
88	Ill. 3114	115	20	82	90	<b>94</b>	48	<b>3</b>	6
89	Ill. 3121	115	17	85	96	<b>95</b>	43	<b>0</b>	3
90	Ill. 3185	115	20	85	86	<b>100</b>	52	<b>0</b>	14
91	Ill. 3187	115	19	84	84	<b>99</b>	54	<b>7</b>	<b>2</b>
92	Ill. 1570-2	114	20	82	83	<b>98</b>	47	<b>1</b>	9
93	Ill. 1656-1	114	19	82	84	<b>99</b>	46	<b>4</b>	<b>2</b>
94	Ill. 1660	114	24	80	91	93	57	<b>0</b>	4
95	Ill. 1909	114	16	87	90	<b>99</b>	47	<b>3</b>	4
96	Ill. 1926	114	17	83	97	<b>97</b>	47	<b>2</b>	<b>2</b>
97	Ill. 1944	114	21	82	96	<b>96</b>	51	<b>0</b>	15
98	Ill. 1983-1	114	17	85	91	<b>99</b>	47	<b>0</b>	6
99	Ill. 1997	114	20	82	92	87	49	<b>1</b>	4
100	Ill. 3050	114	19	83	91	<b>98</b>	46	<b>1</b>	<b>1</b>
101	Ill. 3054	114	18	83	88	<b>98</b>	47	<b>0</b>	4
102	Ill. 3112	114	19	84	90	<b>95</b>	46	<b>0</b>	5
103	AES 702	113	20	82	96	<b>99</b>	<b>41</b>	<b>2</b>	<b>0</b>
104	Ill. 1570	113	19	83	88	<b>94</b>	46	<b>1</b>	5
105	Ill. 3082	113	18	82	<b>98</b>	<b>98</b>	44	<b>3</b>	3
106	Ill. 3105	113	18	85	83	<b>97</b>	48	<b>0</b>	4
107	Ill. 3108	113	19	85	91	<b>99</b>	50	<b>1</b>	4
108	Ill. 3179	113	17	86	90	<b>95</b>	49	<b>2</b>	10
109	Iowa 5023	113	18	83	91	<b>98</b>	45	<b>3</b>	<b>0</b>
110	Mo. 971	113	20	79	93	88	50	<b>0</b>	11
111	Ill. 1570A	112	20	84	83	<b>97</b>	46	<b>4</b>	5
112	Ill. 1928	112	18	84	91	<b>97</b>	47	<b>2</b>	5
113	Ill. 1977	112	19	82	89	<b>98</b>	46	<b>2</b>	4
114	Ill. 1990	112	20	84	97	<b>99</b>	<b>37</b>	<b>1</b>	3
115	Ill. 2246W	112	18	85	84	<b>99</b>	52	<b>8</b>	11
116	Ill. 3056	112	17	86	96	<b>98</b>	44	<b>0</b>	6
117	Ill. 3070	112	19	83	79	<b>96</b>	49	<b>0</b>	5
118	Ill. 3088	112	19	85	93	<b>96</b>	42	<b>1</b>	3
119	Ill. 3116	112	17	85	94	<b>99</b>	44	<b>3</b>	3
120	Ill. 3181	112	20	84	85	<b>100</b>	49	<b>1</b>	5
121	Ill. 1656-2	111	19	84	84	<b>99</b>	48	<b>4</b>	<b>7</b>
122	Ill. 1731B	111	19	83	90	90	47	<b>3</b>	<b>0</b>
123	Ill. 1880	111	19	83	91	<b>98</b>	47	<b>3</b>	5
124	Ill. 1890	111	19	82	91	92	46	<b>1</b>	7
125	Ill. 1945	111	20	84	81	<b>96</b>	50	<b>0</b>	30
126	Ill. 2249W	111	19	84	92	<b>96</b>	48	<b>9</b>	30
127	Ill. 3106	111	18	80	88	<b>96</b>	44	<b>1</b>	5
128	Ill. 3296	111	19	82	95	<b>96</b>	46	<b>4</b>	6
129	Ind. 6833	111	19	84	84	<b>99</b>	44	<b>8</b>	9
130	Iowa 5113	111	19	83	89	<b>95</b>	44	<b>0</b>	<b>0</b>

(Table is concluded on next page)

Table 6. — Concluded

Rank in yield	Entry	Acre yield	Mois- ture in grain	Shell- ing	Erect plants	Stand	Ear height	Dropped ears	Smut
<b>C — 1958 results (3 replications) — Concluded</b>									
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>perct.</i>	<i>perct.</i>
131	U.S. 13.....	111	19	82	79	<b>95</b>	50	5	<b>1</b>
132	Ill. 1918.....	110	19	86	90	<b>100</b>	49	<b>2</b>	<b>2</b>
133	Ill. 1946.....	110	20	83	78	<b>99</b>	52	<b>0</b>	12
134	Ill. 1974.....	110	19	85	88	<b>98</b>	50	<b>0</b>	7
135	Ill. 3062.....	110	18	86	96	<b>98</b>	48	<b>2</b>	8
136	Ill. 3073.....	110	19	81	88	<b>100</b>	45	<b>1</b>	9
137	Ill. 3091.....	110	20	80	<b>87</b>	<b>97</b>	49	5	<b>1</b>
138	Ill. 3094.....	110	19	83	<b>99</b>	<b>100</b>	49	3	4
139	Ill. 3100.....	110	19	84	95	<b>94</b>	45	<b>0</b>	15
140	Ill. 3125.....	110	16	86	94	<b>100</b>	43	<b>1</b>	4
141	Ill. 6021.....	110	18	83	82	<b>98</b>	56	5	<b>2</b>
142	Ill. 1942.....	109	22	82	83	<b>94</b>	52	<b>0</b>	23
143	Ill. 1951.....	109	19	86	77	<b>99</b>	53	<b>1</b>	8
144	Ill. 1988.....	109	21	82	87	<b>98</b>	46	<b>1</b>	<b>1</b>
145	Ill. 3111.....	109	18	85	91	<b>94</b>	43	<b>0</b>	6
146	Ill. 6052.....	109	18	83	75	90	59	3	3
147	Ill. 1656.....	108	19	83	86	91	47	4	3
148	Ill. 1973.....	108	18	85	84	<b>98</b>	44	<b>1</b>	<b>1</b>
149	Ill. 3065.....	108	17	85	86	<b>98</b>	50	<b>0</b>	5
150	Ill. 3113.....	108	18	82	95	<b>96</b>	42	<b>0</b>	3
151	Ill. 3124.....	108	19	81	97	<b>99</b>	44	<b>1</b>	<b>1</b>
152	AES 808.....	107	20	83	72	<b>97</b>	<b>41</b>	4	4
153	Ill. 1927.....	107	18	83	<b>98</b>	<b>95</b>	43	<b>2</b>	3
154	Ill. 1935.....	107	22	81	96	<b>99</b>	45	<b>0</b>	10
155	Ill. 1947.....	107	21	81	83	<b>94</b>	50	<b>1</b>	11
156	Ill. 1980.....	107	18	82	87	<b>95</b>	46	4	8
157	Ill. 3071.....	107	19	81	87	<b>97</b>	45	<b>1</b>	5
158	Ill. 3083.....	107	19	83	96	<b>96</b>	45	<b>1</b>	<b>1</b>
159	Ill. 3092.....	107	20	81	89	<b>94</b>	44	4	5
160	Ill. 3120.....	107	18	85	84	<b>98</b>	46	<b>2</b>	5
161	Ill. 1851.....	106	21	79	77	90	54	<b>1</b>	3
162	Ill. 1925.....	106	16	83	96	<b>98</b>	<b>40</b>	<b>1</b>	3
163	Ill. 3286.....	106	19	83	92	<b>96</b>	48	3	5
164	Ill. 1857.....	105	23	79	83	<b>98</b>	53	4	7
165	Ill. 1939.....	105	23	82	91	<b>100</b>	45	<b>2</b>	14
166	Ill. 3061.....	105	18	86	94	<b>99</b>	45	<b>0</b>	7
167	Ill. 1943.....	104	20	80	94	<b>94</b>	47	<b>0</b>	5
168	Ill. 3057.....	104	18	85	97	<b>95</b>	<b>41</b>	<b>0</b>	6
169	Ill. 3069.....	104	18	84	92	<b>96</b>	44	<b>1</b>	7
170	Ill. 3096.....	104	18	80	94	<b>94</b>	<b>41</b>	<b>0</b>	<b>2</b>
171	Ill. 3099.....	104	19	81	86	<b>94</b>	46	<b>0</b>	4
172	Ill. 1938.....	102	24	78	92	<b>98</b>	47	<b>1</b>	5
173	Ill. 3051.....	102	18	84	91	88	44	<b>1</b>	<b>2</b>
174	Ill. 3052.....	101	18	84	93	<b>96</b>	42	3	4
175	Ill. 3059.....	101	19	84	97	<b>98</b>	<b>41</b>	<b>0</b>	3
176	Ill. 1940.....	99	24	82	91	<b>99</b>	45	<b>0</b>	5
177	Ill. 3060.....	99	18	84	92	<b>99</b>	43	<b>0</b>	10
178	Ill. 6016.....	98	20	85	62	<b>99</b>	51	<b>0</b>	9
179	Ill. 1948.....	97	22	82	89	<b>93</b>	49	<b>0</b>	10
180	Ill. 3058.....	97	20	82	93	<b>99</b>	<b>41</b>	<b>2</b>	5
181	Ill. 3064.....	97	18	85	92	<b>97</b>	46	3	6
182	Ill. 3095.....	96	20	84	90	<b>99</b>	45	<b>2</b>	3
	Average.....	114	19	83	89	97	47	2	5

Table 7. — DOUBLE CROSSES OF ILLINOIS 1570 MATURITY  
Tested in Central Illinois (Field B), 1956-1958

(Data in boldface were not statistically different  
from the best performance for that characteristic)

Rank in yield	Entry	Acre yield	Mois- ture in grain	Shell- ing	Erect plants	Stand	Ear height	Dropped ears	Smut
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>perct.</i>	<i>perct.</i>
1	Ill. 1981.	<b>127</b>	<b>19</b>	<b>81</b>	<b>89</b>	<b>98</b>	49	<b>1</b>	<b>4</b>
2	Ill. 1976.	<b>125</b>	21	79	84	<b>96</b>	49	<b>1</b>	<b>4</b>
3	Ill. 1978.	<b>125</b>	21	80	83	<b>99</b>	50	<b>2</b>	<b>1</b>
4	Ill. 1995.	<b>125</b>	21	<b>85</b>	79	<b>97</b>	49	<b>1</b>	<b>4</b>
5	Ill. 1982.	<b>124</b>	21	80	81	<b>96</b>	50	3	<b>3</b>
6	Ill. 1996.	<b>124</b>	21	81	<b>93</b>	<b>97</b>	47	<b>1</b>	<b>1</b>
7	Ill. 1919.	<b>123</b>	<b>19</b>	<b>82</b>	85	<b>97</b>	46	<b>2</b>	<b>6</b>
8	Ill. 1984.	<b>123</b>	21	79	<b>86</b>	<b>98</b>	47	<b>1</b>	<b>1</b>
9	Ill. 1991.	<b>123</b>	21	80	<b>86</b>	<b>96</b>	47	<b>2</b>	<b>2</b>
10	Ill. 1332.	<b>122</b>	<b>19</b>	<b>82</b>	<b>90</b>	<b>97</b>	47	<b>2</b>	<b>3</b>
11	Ill. 1851.	<b>122</b>	22	78	<b>88</b>	94	51	<b>1</b>	<b>5</b>
12	Ill. 1985.	<b>122</b>	<b>20</b>	<b>82</b>	81	<b>99</b>	47	<b>2</b>	<b>1</b>
13	Ill. 1992.	<b>122</b>	21	79	<b>92</b>	<b>96</b>	46	<b>0</b>	<b>1</b>
14	Ill. 1997.	<b>121</b>	22	81	<b>89</b>	94	49	<b>0</b>	<b>2</b>
15	Ill. 1660.	<b>120</b>	29	79	<b>89</b>	<b>97</b>	55	<b>0</b>	<b>3</b>
16	Ill. 1983.	<b>120</b>	<b>18</b>	<b>84</b>	<b>92</b>	<b>99</b>	46	<b>2</b>	<b>2</b>
17	Ill. 1570-1.	<b>119</b>	<b>20</b>	81	84	<b>99</b>	47	<b>2</b>	<b>3</b>
18	Ill. 1918.	<b>119</b>	<b>20</b>	<b>83</b>	<b>87</b>	<b>99</b>	47	<b>2</b>	<b>1</b>
19	Ill. 1944.	<b>119</b>	21	79	<b>95</b>	<b>97</b>	51	<b>0</b>	9
20	Ill. 1945.	<b>119</b>	22	<b>82</b>	84	<b>98</b>	52	<b>1</b>	14
21	Ill. 1570A.	<b>118</b>	<b>20</b>	81	84	<b>99</b>	46	3	<b>2</b>
22	Ill. 1942.	<b>118</b>	22	80	<b>86</b>	<b>97</b>	51	<b>0</b>	14
23	Ill. 1946.	<b>118</b>	22	81	84	<b>99</b>	53	<b>0</b>	8
24	Ill. 1987.	<b>118</b>	<b>20</b>	80	<b>88</b>	<b>98</b>	47	4	<b>2</b>
25	Ill. 1994.	<b>118</b>	21	79	<b>93</b>	<b>97</b>	46	<b>1</b>	<b>2</b>
26	Ill. 1880.	<b>117</b>	<b>18</b>	<b>83</b>	<b>88</b>	<b>99</b>	46	3	<b>2</b>
27	Ill. 1947.	<b>117</b>	21	<b>82</b>	<b>86</b>	<b>96</b>	49	<b>1</b>	<b>6</b>
28	Ill. 1980.	<b>117</b>	<b>18</b>	81	<b>91</b>	<b>97</b>	47	3	<b>3</b>
29	Ill. 1986.	<b>117</b>	<b>19</b>	<b>82</b>	<b>91</b>	<b>96</b>	43	<b>1</b>	<b>3</b>
30	Ill. 1951.	<b>116</b>	<b>19</b>	<b>84</b>	<b>86</b>	<b>97</b>	51	<b>1</b>	<b>4</b>
31	Ill. 1943.	<b>115</b>	21	80	<b>92</b>	<b>96</b>	46	<b>0</b>	<b>3</b>
32	Ill. 1977.	<b>115</b>	<b>20</b>	80	85	<b>98</b>	47	<b>2</b>	<b>4</b>
33	Ill. 1939.	<b>114</b>	23	79	94	<b>98</b>	46	<b>1</b>	7
34	Ill. 1993.	<b>114</b>	<b>19</b>	80	<b>88</b>	<b>97</b>	45	<b>1</b>	<b>2</b>
35	Ill. 1570.	113	<b>20</b>	81	79	<b>97</b>	47	<b>2</b>	<b>3</b>
36	Ill. 1948.	113	22	81	<b>86</b>	<b>97</b>	48	<b>0</b>	7
37	Ill. 1989.	113	<b>19</b>	80	<b>93</b>	<b>97</b>	42	<b>2</b>	<b>1</b>
38	Ill. 1988.	112	<b>20</b>	81	<b>86</b>	<b>97</b>	45	<b>1</b>	<b>1</b>
39	Ill. 1990.	112	<b>19</b>	<b>83</b>	<b>93</b>	<b>98</b>	<b>39</b>	<b>0</b>	<b>1</b>
40	Ill. 2246W.	109	<b>19</b>	80	85	<b>98</b>	51	5	<b>5</b>
41	Ill. 1938.	108	25	77	<b>94</b>	<b>97</b>	47	<b>0</b>	<b>3</b>
42	Ill. 1940.	106	24	80	<b>93</b>	<b>98</b>	46	<b>0</b>	<b>5</b>
	Average.	118	21	81	88	97	48	1	4

Table 8. — HIGH-OIL DOUBLE CROSSES AND STANDARD  
Tested in Central Illinois, 1954-1958

(Data in boldface were not statistically different from the best performance for that characteristic)

Rank in yield	Entry	Acre yield	Oil	Protein	Mois- ture in grain	Shell- ing	Erect plants	Stand	Ear height	Smut	Dropped ears
		bu.	perct.	lb. per acre	perct.	perct.	perct.	perct.	in.	perct.	perct.
<b>A — Five-year averages, 1954-1958</b>											
2	Ill. 6052	112	6.27	390	11.42	707	22	81	..	..	..
3	Ill. 6021	110	6.39	393	11.06	679	20	83	..	..	..
1	U.S. 13	116	4.77	311	10.24	665	20	86	..	..	..
	Average	113	5.81	365	10.91	684	21	83	..	..	..
<b>B — Two-year averages, 1957-1958</b>											
2	Ill. 6052	126	5.94	418	10.02	710	21	80	73	98	56
3	Ill. 6062	124	5.49	382	10.70	751	23	79	56	97	56
4	Ill. 6021	119	6.44	425	10.12	678	21	80	65	96	56
1	U.S. 13	130	4.39	319	9.22	670	22	80	74	96	53
	Average	125	5.56	386	10.02	702	22	80	67	97	55
<b>C — 1958 results (4 replications)</b>											
2	Ill. 6052	<b>116</b>	6.41	416	9.50	617	20	82	<b>79</b>	<b>97</b>	58
3	Ill. 6115	<b>115</b>	5.56	358	10.62	684	19	81	<b>85</b>	<b>98</b>	56
4	Ill. 6111	<b>112</b>	6.06	380	10.31	647	20	83	73	97	57
5	Ill. 6062	<b>112</b>	5.60	351	9.94	623	19	80	58	<b>97</b>	57
6	Ill. 6109	<b>112</b>	5.15	323	10.31	647	17	82	<b>84</b>	<b>97</b>	48
7	Ill. 6021	107	6.99	419	9.69	581	18	81	70	<b>96</b>	6
8	Ill. 6108	106	5.42	322	9.44	560	20	80	76	<b>96</b>	54
9	Ill. 6106	103	6.70	386	10.06	580	20	80	58	<b>98</b>	3
10	Ill. 6112	103	5.83	336	11.69	674	18	81	<b>82</b>	<b>99</b>	53
11	Ill. 6116	102	5.02	287	10.56	603	18	80	<b>90</b>	<b>96</b>	52
12	Ill. 6107	98	6.64	364	9.75	535	20	83	78	99	49
13	Ill. 6114	90	6.74	340	10.00	504	21	78	32	<b>99</b>	55
14	Ill. 6113	85	4.58	218	9.69	461	18	83	74	<b>98</b>	43
15	Ill. 6110	82	7.90	363	9.56	439	23	78	<b>86</b>	<b>96</b>	10
1	U.S. 13	<b>122</b>	4.16	284	8.81	602	20	81	<b>84</b>	<b>97</b>	5
	Average	104	5.91	343	10.00	583	19	81	74	97	53



Table 9. — THREE-WAY CROSSES AND STANDARDS  
OF ILLINOIS 1570 MATURITY

Tested in Central Illinois, 1958

(Data in boldface were not statistically different  
from the best performance for that characteristic)

Code	Entry	Acres yield	Mois- ture in grain	Shell- ing	Erect plants	Stand	Ear height	Dropped ears	Smut
<b>A — Inbred lines crossed with (Hy×WF9)</b>									
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>perct.</i>	<i>perct.</i>
1	R92.....	98	19	79	82	<b>99</b>	49	<b>3</b>	<b>2</b>
2	R177.....	<b>133</b>	20	82	<b>96</b>	<b>96</b>	<b>45</b>	<b>0</b>	<b>0</b>
3	R186.....	121	19	81	<b>89</b>	<b>100</b>	48	<b>1</b>	<b>5</b>
4	R187.....	113	20	82	<b>96</b>	<b>99</b>	49	<b>2</b>	9
5	R188.....	117	21	78	<b>89</b>	<b>95</b>	50	<b>2</b>	<b>2</b>
6	38-11.....	<b>130</b>	18	82	82	<b>98</b>	55	<b>1</b>	<b>5</b>
7	B45.....	122	18	77	85	<b>99</b>	51	<b>2</b>	<b>0</b>
8	H51.....	122	19	81	<b>90</b>	94	51	4	<b>5</b>
9	H52.....	116	19	78	<b>89</b>	90	58	4	12
10	L317.....	112	21	80	76	<b>97</b>	56	7	<b>2</b>
11	K805.....	<b>130</b>	19	79	<b>87</b>	<b>97</b>	55	<b>1</b>	10
12	K806.....	110	19	82	74	<b>96</b>	55	<b>2</b>	<b>7</b>
13	Ky36-11.....	111	24	78	84	91	55	<b>0</b>	<b>5</b>
14	Mo11225.....	<b>138</b>	19	82	80	<b>99</b>	48	<b>1</b>	9
15	Oh7N.....	<b>131</b>	20	77	<b>89</b>	<b>98</b>	50	<b>1</b>	<b>0</b>
16	Oh45S.....	<b>137</b>	21	79	<b>94</b>	<b>99</b>	48	<b>0</b>	<b>1</b>
	Average.....	121	20	80	86	97	51	2	5
<b>B — Inbred lines crossed with (WF9×38-11)</b>									
17	Hy.....	127	19	81	84	88	54	<b>1</b>	<b>7</b>
18	R92.....	82	18	80	85	<b>96</b>	<b>46</b>	<b>3</b>	<b>2</b>
19	R177.....	127	19	81	<b>96</b>	<b>99</b>	47	<b>1</b>	10
20	R186.....	97	17	82	<b>88</b>	<b>98</b>	<b>44</b>	<b>1</b>	8
21	R187.....	97	17	83	<b>92</b>	89	<b>43</b>	<b>1</b>	17
22	R188.....	104	21	76	<b>91</b>	<b>97</b>	47	<b>0</b>	<b>4</b>
23	B45.....	115	20	76	85	93	51	<b>1</b>	<b>7</b>
24	H55.....	122	19	82	<b>87</b>	<b>95</b>	53	<b>1</b>	<b>4</b>
25	H56.....	117	20	82	<b>88</b>	<b>97</b>	53	<b>2</b>	<b>6</b>
26	L317.....	104	20	81	83	<b>97</b>	54	<b>3</b>	<b>6</b>
27	K805.....	97	20	78	<b>89</b>	<b>98</b>	47	<b>0</b>	10
28	K806.....	105	19	81	48	<b>97</b>	52	<b>2</b>	<b>2</b>
29	Ky36-11.....	100	21	77	81	94	51	<b>1</b>	<b>5</b>
30	Mo11225.....	121	19	78	83	<b>98</b>	48	<b>1</b>	12
31	Oh7N.....	116	20	79	<b>87</b>	<b>99</b>	49	<b>3</b>	<b>3</b>
32	Oh45S.....	112	20	78	<b>91</b>	<b>98</b>	48	<b>0</b>	<b>7</b>
	Average.....	109	19	80	85	96	49	1	7
<b>C — Standard checks</b>									
33	Hy2×WF9.....	<b>135</b>	20	80	<b>98</b>	<b>99</b>	49	<b>1</b>	<b>1</b>
35	U.S. 13.....	122	20	81	84	<b>97</b>	52	<b>2</b>	<b>5</b>
34	WF9×38-11.....	121	18	83	<b>95</b>	<b>95</b>	49	<b>0</b>	8
	Average.....	126	19	81	92	97	50	1	5
Average of 35 entries.....		116	20	80	86	96	50	2	6

Table 10. — HIGH-OIL AND HIGH-PROTEIN THREE-WAY,  
DOUBLE, AND SINGLE CROSSES

Tested in Central Illinois, 1958

(Data in boldface indicate performances better than  
average of all entries for that characteristic)

Code	Entry	Acre yield	Protein	Oil	Erect plants	Stand	Ears per hill
<b>A — Inbred lines crossed with (38-11×K4)</b>							
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>no.</i>
1	R75.....	<b>112</b>	9.50	5.04	<b>84</b>	<b>97</b>	3.8
2	R76.....	85	11.25	5.96	71	<b>97</b>	<b>4.0</b>
3	R78.....	<b>111</b>	10.03	6.90	<b>84</b>	<b>97</b>	<b>4.1</b>
4	R79.....	<b>128</b>	10.75	4.66	69	<b>100</b>	<b>4.0</b>
5	R80.....	91	10.28	5.71	<b>80</b>	<b>97</b>	3.8
6	R81.....	100	10.04	4.18	47	<b>100</b>	3.8
7	R83.....	<b>117</b>	10.34	5.95	72	<b>100</b>	<b>4.2</b>
8	R83A.....	91	10.62	4.88	54	88	<b>3.9</b>
9	R84.....	102	9.94	5.78	53	<b>100</b>	<b>4.4</b>
10	R85.....	<b>104</b>	11.22	5.16	<b>81</b>	91	<b>4.0</b>
11	R86.....	<b>124</b>	11.28	4.90	74	<b>97</b>	3.8
12	R87.....	<b>114</b>	10.60	3.84	59	<b>100</b>	<b>4.2</b>
13	R88.....	72	9.68	5.25	49	94	3.2
14	R90.....	67	11.96	5.46	<b>84</b>	91	3.4
15	R91.....	75	11.40	5.54	<b>88</b>	<b>97</b>	<b>3.9</b>
16	R92.....	<b>110</b>	9.84	5.14	<b>84</b>	<b>100</b>	<b>4.1</b>
17	R93.....	84	10.32	5.83	<b>80</b>	<b>97</b>	3.8
18	R117.....	<b>107</b>	10.13	4.51	<b>84</b>	88	<b>4.0</b>
19	R118.....	<b>111</b>	11.32	5.95	66	<b>97</b>	<b>4.0</b>
20	R120.....	<b>105</b>	11.43	4.82	<b>94</b>	<b>97</b>	<b>3.9</b>
21	R157.....	<b>111</b>	10.06	4.50	<b>84</b>	<b>100</b>	<b>4.1</b>
22	R158.....	<b>118</b>	11.02	5.12	<b>88</b>	<b>100</b>	<b>4.1</b>
23	M14.....	103	10.90	4.85	<b>84</b>	<b>100</b>	<b>4.0</b>
24	38-11.....	70	11.62	5.13	74	<b>97</b>	<b>3.9</b>
25	A96.....	95	11.02	5.18	58	<b>97</b>	3.8
26	A148.....	75	10.96	4.63	65	<b>97</b>	3.8
27	N6.....	102	9.90	4.92	<b>91</b>	<b>97</b>	<b>3.9</b>
28	S.D.(H.P.).....	84	12.38	4.74	75	<b>100</b>	<b>4.0</b>
29	Oh45.....	<b>116</b>	10.41	5.14	<b>97</b>	<b>100</b>	<b>4.0</b>
30	Oh51A.....	90	9.81	5.18	<b>93</b>	<b>97</b>	3.8
31	M14×B2(2).....	95	11.22	4.58	<b>81</b>	<b>97</b>	3.6
32	M14×Oh51A(3).....	83	10.88	5.54	46	<b>97</b>	3.5
33	R75×WF9(1B).....	<b>122</b>	9.75	5.73	<b>82</b>	<b>97</b>	3.8
34	R75×38-11(1).....	83	10.16	5.77	<b>88</b>	91	<b>4.0</b>
35	R75×N6(1).....	<b>124</b>	9.47	5.21	<b>78</b>	<b>100</b>	<b>4.0</b>
36	R185 R76×5120B(3).....	101	10.32	5.42	<b>84</b>	94	<b>3.9</b>
37	R180 R76×WF9(1B).....	98	10.32	4.69	68	<b>97</b>	<b>3.9</b>
38	R76×B2(1A).....	87	9.98	6.16	<b>81</b>	<b>100</b>	3.8
39	R76×I.159(3).....	101	10.04	4.81	<b>88</b>	<b>100</b>	<b>4.0</b>
40	R77×N6(3).....	96	10.66	5.42	<b>81</b>	<b>97</b>	<b>3.9</b>
41	R77×Oh51A(1A).....	90	9.62	6.56	75	<b>97</b>	3.8
42	5120B×38-11(1B).....	<b>106</b>	10.56	4.36	72	<b>100</b>	<b>3.9</b>
43	5120B×B2(4).....	97	10.78	4.94	73	91	3.5
44	5120B×Oh45(1).....	<b>119</b>	9.12	4.21	<b>94</b>	<b>100</b>	<b>4.0</b>
45	WF9×B2(2).....	<b>108</b>	9.81	4.25	<b>96</b>	<b>97</b>	<b>3.9</b>
46	WF9×I.159(1A).....	<b>124</b>	9.19	4.48	<b>91</b>	<b>100</b>	<b>4.0</b>
47	WF9×Oh45(2).....	<b>109</b>	9.82	4.65	<b>94</b>	<b>100</b>	<b>4.1</b>
48	B2×K4(3).....	96	10.72	5.38	68	<b>97</b>	<b>4.1</b>
49	R186 B2×N6(2).....	95	10.50	4.68	69	<b>97</b>	3.8
50	R193 B2×Oh51A(1).....	101	10.88	5.08	72	<b>100</b>	3.8
51	B2×Oh51A(2).....	97	11.50	4.68	<b>78</b>	<b>100</b>	<b>3.9</b>
52	I.159×K4(2).....	<b>109</b>	10.62	5.43	<b>88</b>	<b>97</b>	<b>3.9</b>
53	R184 I.159×Oh45(2B).....	<b>110</b>	10.16	4.66	<b>88</b>	94	<b>4.0</b>
54	M14×R75(4).....	<b>118</b>	10.25	4.84	<b>88</b>	<b>100</b>	<b>4.0</b>
55	R75×5120B(3).....	<b>127</b>	9.64	4.90	<b>79</b>	<b>97</b>	<b>3.9</b>

(Table is continued on next page)

Table 10. — Continued

Code	Entry	Acre yield	Protein	Oil	Erect plants	Stand	Ears per hill
<b>A — Inbred lines crossed with (38-11×K4) — Continued</b>							
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>no.</i>
56	R75×38-11(3)	92	10.44	5.60	<b>94</b>	<b>100</b>	<b>4.1</b>
57	R75×N6(4)	<b>123</b>	9.22	5.68	<b>88</b>	94	3.8
58	R182 R75×Oh51A(1)	<b>122</b>	9.34	5.64	<b>94</b>	<b>100</b>	<b>4.0</b>
59	R76×WF9(1A)	102	10.78	5.16	72	<b>100</b>	<b>4.1</b>
60	R76×38-11(2)	83	11.25	5.42	76	<b>97</b>	<b>4.0</b>
61	R76×Kys(2)	61	12.22	4.18	62	94	3.1
62	R76×Oh51A(2)	97	10.37	4.64	<b>93</b>	<b>97</b>	<b>3.9</b>
63	R77×38-11(1A)	66	10.78	5.62	75	94	3.2
64	WF9×I.159(3)	<b>114</b>	9.84	5.16	<b>82</b>	94	<b>4.0</b>
65	WF9×Kys(1)	<b>114</b>	9.96	4.76	<b>78</b>	94	3.6
66	WF9×Kys(4)	103	10.44	5.11	<b>81</b>	91	3.4
67	WF9×K4(2)	80	11.25	5.03	<b>80</b>	88	3.5
68	38-11×B2(4)	65	10.47	5.40	65	<b>97</b>	3.4
69	B2×Kys(2A)	87	10.94	4.91	64	<b>97</b>	3.8
70	B2×S.D.HP(2)	81	10.90	4.15	72	<b>97</b>	3.5
71	B2×S.D.HP(3)	93	10.22	4.71	<b>78</b>	<b>97</b>	3.8
72	I.159×Kys(1B)	<b>109</b>	10.31	5.41	<b>81</b>	<b>97</b>	<b>4.0</b>
73	I.159×N6(3)	<b>112</b>	9.44	4.94	<b>78</b>	<b>100</b>	<b>4.1</b>
74	R188 Kys×N6(1A)	93	9.62	5.43	<b>90</b>	<b>97</b>	<b>3.9</b>
75	Kys×N6(3)	98	10.56	4.56	56	<b>100</b>	<b>4.2</b>
76	A96×Oh45(1)	99	9.78	4.66	<b>88</b>	<b>100</b>	<b>3.9</b>
77	N6×Oh45(4)	<b>113</b>	9.75	5.82	<b>91</b>	<b>100</b>	<b>4.1</b>
78	N6×Oh51A(3)	100	10.03	5.30	75	<b>100</b>	<b>4.0</b>
79	C103	<b>118</b>	9.62	4.30	71	<b>97</b>	<b>3.9</b>
80	Hy2	<b>130</b>	9.34	5.00	<b>94</b>	<b>100</b>	<b>3.9</b>
81	R78	100	9.88	6.90	72	<b>100</b>	<b>4.2</b>
82	R79	<b>131</b>	10.09	4.82	<b>88</b>	<b>100</b>	<b>4.1</b>
83	R80	90	10.22	4.72	75	<b>100</b>	<b>4.0</b>
84	R81	99	9.38	4.60	61	<b>97</b>	3.8
85	R82	<b>114</b>	10.90	6.09	69	75	3.8
86	R83	90	10.54	5.18	57	88	3.6
87	L317	95	10.06	4.70	<b>78</b>	91	<b>4.4</b>
88	K201	<b>111</b>	10.72	5.90	<b>84</b>	<b>97</b>	<b>4.8</b>
89	A71	<b>109</b>	10.03	4.90	59	<b>100</b>	<b>4.0</b>
90	Oh84	80	10.28	4.84	62	<b>100</b>	<b>4.0</b>
91	CI.2	<b>114</b>	10.34	5.06	<b>83</b>	<b>97</b>	<b>4.4</b>
92	CI.4-8	90	10.60	4.68	54	88	3.6
93	CI.187-2	<b>107</b>	9.62	4.46	<b>84</b>	<b>97</b>	<b>4.1</b>
94	CI.540	<b>120</b>	9.75	4.88	73	94	<b>5.6</b>
95	C103×Hy2(2B)	<b>134</b>	9.06	4.42	<b>88</b>	<b>100</b>	<b>4.0</b>
96	C103×CI.540(1)	<b>117</b>	9.91	5.32	<b>91</b>	<b>100</b>	3.8
97	Hy2×R79(2)	<b>130</b>	9.00	4.96	<b>84</b>	<b>100</b>	<b>4.0</b>
98	R196 Hy2×R83(3)	<b>127</b>	10.52	5.32	<b>91</b>	<b>100</b>	<b>4.1</b>
99	R195 Hy2×187-2(2)	<b>114</b>	9.38	4.98	74	<b>97</b>	<b>3.9</b>
100	R198 R78×K201(1B)	104	10.12	4.78	<b>81</b>	<b>100</b>	<b>3.9</b>
101	R79×L317(1A)	<b>111</b>	9.12	4.78	<b>84</b>	<b>100</b>	<b>4.0</b>
102	R79×CI.4-8(1)	102	9.60	6.11	<b>91</b>	94	3.8
103	R197 R80×K201(1A)	<b>115</b>	10.72	6.08	59	<b>100</b>	<b>5.0</b>
104	R80×Oh84(4)	<b>110</b>	11.62	5.66	66	<b>100</b>	<b>4.0</b>
105	R80×CI.540(1B)	<b>110</b>	9.84	5.72	<b>80</b>	<b>97</b>	<b>4.0</b>
106	R82×L317(1B)	97	10.56	4.96	72	94	3.6
107	R82×CI.4-8(3)	<b>109</b>	10.50	4.47	71	91	3.8
108	R83×CI.540(1)	101	9.75	4.98	53	<b>100</b>	<b>4.1</b>
109	C103×R78(1)	<b>110</b>	10.15	5.12	72	<b>100</b>	<b>4.0</b>
110	C103×R79(1B)	<b>124</b>	10.60	5.48	<b>78</b>	<b>100</b>	<b>3.9</b>
111	C103×L317(1A)	102	9.22	4.51	42	<b>97</b>	<b>3.9</b>
112	C103×L317(1B)	<b>110</b>	8.60	4.26	67	<b>97</b>	<b>3.9</b>
113	C103×A71(1A)	<b>112</b>	10.34	5.10	<b>81</b>	<b>100</b>	<b>4.0</b>
114	Hy2×R79(1A)	<b>113</b>	10.75	4.68	<b>81</b>	<b>100</b>	<b>4.0</b>
115	Hy2×R82(1A)	<b>125</b>	9.25	4.48	76	<b>97</b>	<b>4.1</b>
116	R78×R79(1A)	98	10.25	5.63	72	<b>100</b>	<b>4.0</b>
117	R78×R80(1C)	97	9.72	6.09	53	<b>100</b>	<b>4.0</b>
118	R78×CI.2(1B)	<b>107</b>	10.75	5.28	60	<b>97</b>	<b>4.0</b>
119	R78×187-2(1)	<b>128</b>	10.38	5.04	75	<b>100</b>	<b>4.2</b>
120	R79×R83(2)	<b>106</b>	10.40	5.34	<b>84</b>	88	3.8

(Table is concluded on next page)

Table 10. — Concluded

Code	Entry	Acre yield	Protein	Oil	Erect plants	Stand	Ears per hill
<b>A — Inbred lines crossed with (38-11×K4) — Concluded</b>							
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>no.</i>
121	R82×L317(1C).....	<b>105</b>	9.78	4.86	75	<b>100</b>	<b>4.0</b>
122	R83×L317(3).....	99	9.69	4.71	<b>88</b>	<b>100</b>	<b>4.0</b>
123	R83×CL2(1B).....	86	9.68	5.15	75	91	<b>4.6</b>
124	R83×CL540(4).....	<b>120</b>	9.90	5.26	75	<b>100</b>	<b>4.2</b>
125	CL2×187-2(1A).....	102	9.88	4.32	<b>84</b>	94	<b>3.9</b>
	Average.....	103	10.27	5.10	76	97	3.9
<b>B — Double crosses</b>							
127	Ill. 1851.....	<b>128</b>	9.34	4.86	<b>94</b>	<b>100</b>	<b>4.1</b>
135	AES 805.....	<b>125</b>	9.50	4.56	<b>84</b>	<b>100</b>	<b>4.1</b>
129	Ill. 6021.....	<b>122</b>	9.64	5.92	<b>80</b>	<b>97</b>	<b>4.1</b>
128	Ill. 6016.....	<b>116</b>	10.53	6.60	75	<b>100</b>	<b>4.2</b>
134	AES 702.....	<b>116</b>	9.56	4.50	<b>91</b>	<b>100</b>	<b>4.0</b>
136	U.S. 13.....	<b>114</b>	9.00	4.32	<b>97</b>	<b>97</b>	<b>3.9</b>
130	Ill. 6052.....	<b>114</b>	10.53	5.86	74	<b>97</b>	<b>4.1</b>
131	Ill. 6062.....	<b>112</b>	10.50	5.41	75	<b>97</b>	<b>4.1</b>
132	Ill. 6075.....	97	9.56	5.74	<b>81</b>	<b>100</b>	<b>4.1</b>
126	Ill. 1277.....	96	9.19	4.34	<b>78</b>	<b>97</b>	3.6
133	Ill. 6084.....	90	9.97	5.38	48	<b>97</b>	<b>4.0</b>
	Average.....	112	9.76	5.23	80	98	4.0
<b>C — Single crosses</b>							
137	Hy2×WF9.....	<b>118</b>	8.47	3.99	<b>94</b>	<b>100</b>	<b>4.0</b>
140	K4×38-11.....	<b>116</b>	10.87	5.90	<b>91</b>	88	3.6
139	WF9×38-11.....	<b>114</b>	9.56	4.88	<b>100</b>	<b>100</b>	<b>3.9</b>
138	M14×WF9.....	89	10.31	4.49	<b>97</b>	<b>97</b>	3.8
	Average.....	109	9.80	4.82	96	96	3.8
	Average of 140 entries.....	104	10.22	5.10	77	97	3.9

Table 11. — INBRED LINES AND SISTER-LINE CROSSES

Tested in Central Illinois, 1958

(Data in boldface were not statistically different from the best performance for that characteristic)

Code	Entry	Acre yield	Moisture in grain	Shelling	Erect plants	Stand	Ear height	Dropped ears	Smut	Leaf blight
<b>A — Inbred lines</b>										
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>perct.</i>	<i>perct.</i>	<i>score</i>
1	Hy2.....	35	23	77	<b>97</b>	<b>99</b>	31	<b>0</b>	<b>0</b>	2.4
19	HyR.....	40	20	81	77	<b>91</b>	38	<b>0</b>	<b>1</b>	3.6
2	R138.....	44	18	82	<b>85</b>	<b>91</b>	40	<b>1</b>	<b>1</b>	3.5
3	R158.....	45	15	81	<b>85</b>	<b>99</b>	35	<b>2</b>	<b>1</b>	5.0
4	CI.42A.....	36	23	78	<b>88</b>	<b>98</b>	37	<b>1</b>	<b>2</b>	3.1
5	WF9.....	49	16	81	<b>99</b>	<b>99</b>	<b>27</b>	<b>1</b>	<b>5</b>	4.0
6	R75.....	42	14	78	<b>99</b>	<b>92</b>	<b>25</b>	6	10	3.6
7	38-11.....	35	16	76	<b>87</b>	<b>88</b>	40	<b>1</b>	<b>1</b>	2.5
8	R76.....	30	20	75	48	<b>85</b>	45	6	<b>2</b>	3.1
9	CI.38B.....	17	22	72	<b>98</b>	<b>91</b>	36	<b>1</b>	12	2.6
20	L317.....	6	16	76	52	<b>86</b>	41	<b>1</b>	<b>3</b>	3.9
10	R118.....	12	18	70	61	83	44	4	11	3.9
11	Oh41.....	6	15	67	67	<b>86</b>	<b>26</b>	<b>0</b>	<b>2</b>	4.2
12	CI.317B.....	10	26	50	80	<b>93</b>	42	<b>1</b>	12	3.2
13	Oh7.....	51	20	81	<b>90</b>	<b>89</b>	36	<b>0</b>	<b>6</b>	2.2
14	Oh7A.....	36	24	74	69	<b>95</b>	39	<b>0</b>	<b>9</b>	3.0
15	Oh7B.....	49	19	79	80	<b>88</b>	40	<b>0</b>	<b>8</b>	2.1
16	CI.187-2.....	43	16	82	<b>100</b>	<b>98</b>	36	<b>0</b>	13	4.4
17	W187R.....	41	13	81	80	<b>92</b>	36	<b>1</b>	<b>1</b>	5.0
18	R84.....	22	14	80	73	83	46	<b>3</b>	55	3.9
	Average.....	32	18	76	81	91	37	1	8	3.5
<b>B — Sister-line crosses</b>										
21	Hy2×R138.....	61	20	84	<b>93</b>	<b>93</b>	40	<b>0</b>	<b>0</b>	3.0
22	Hy2×R158.....	<b>123</b>	20	82	<b>94</b>	<b>98</b>	45	<b>0</b>	<b>1</b>	2.0
23	Hy2×CI.42A.....	92	22	83	<b>96</b>	<b>94</b>	41	<b>1</b>	<b>1</b>	1.9
24	R138×R158.....	<b>116</b>	19	84	<b>92</b>	<b>99</b>	47	<b>1</b>	<b>0</b>	2.2
26	R158×CI.42A.....	<b>125</b>	21	85	<b>98</b>	<b>92</b>	49	<b>0</b>	<b>1</b>	1.5
25	R138×CI.42A.....	105	23	84	<b>86</b>	<b>96</b>	47	<b>0</b>	<b>4</b>	2.2
27	WF9×R75.....	77	16	82	<b>99</b>	<b>99</b>	29	<b>2</b>	<b>7</b>	3.8
28	38-11×R76.....	66	17	82	<b>85</b>	<b>97</b>	43	<b>1</b>	<b>3</b>	2.8
29	38-11×CI.38B.....	53	20	78	69	80	38	<b>0</b>	<b>1</b>	2.2
30	R76×CI.38B.....	80	20	80	<b>92</b>	<b>94</b>	44	<b>0</b>	<b>1</b>	2.1
31	R118×Oh41.....	51	19	74	59	<b>94</b>	48	<b>1</b>	<b>3</b>	3.2
32	R118×CI.317B.....	50	22	68	66	<b>98</b>	56	<b>3</b>	11	3.0
33	Oh41×CI.317B.....	53	18	76	69	<b>95</b>	52	<b>3</b>	<b>5</b>	3.1
34	Oh7×Oh7A.....	85	19	83	<b>89</b>	<b>92</b>	44	<b>0</b>	<b>4</b>	2.8
35	Oh7×Oh7B.....	74	21	81	<b>97</b>	<b>90</b>	39	<b>0</b>	<b>3</b>	2.0
36	Oh7A×Oh7B.....	83	23	78	<b>93</b>	<b>92</b>	46	<b>0</b>	<b>4</b>	2.0
37	187-2×W187R.....	73	13	83	<b>88</b>	<b>95</b>	40	<b>1</b>	<b>3</b>	5.0
38	187-2×R84.....	81	15	83	<b>95</b>	<b>97</b>	50	<b>1</b>	40	4.5
39	W187R×R84.....	104	15	82	<b>87</b>	<b>98</b>	51	<b>3</b>	<b>6</b>	3.9
	Average.....	82	19	81	87	94	45	1	8	2.8



Table 13.—DOUBLE CROSSES OF ILLINOIS 1851 MATURITY  
Tested in South-Central Illinois, 1956-1958

(Data in boldface were not statistically different  
from the best performance for that characteristic)

Rank in yield	Entry	Acre yield	Mois- ture in grain	Shell- ing	Erect plants	Stand	Ear height	Smut
<b>A—Three-year averages, 1956-1958</b>								
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>perct.</i>
1	Ill. 1851	<b>98</b>	24	<b>78</b>	<b>87</b>	<b>99</b>	54	<b>1</b>
2	Ill. 1539A	<b>94</b>	27	<b>78</b>	<b>90</b>	<b>98</b>	54	<b>2</b>
3	Ill. 1893	<b>94</b>	24	77	<b>93</b>	<b>99</b>	53	<b>3</b>
4	Ill. 1913	<b>93</b>	<b>20</b>	<b>83</b>	<b>96</b>	<b>99</b>	<b>50</b>	<b>1</b>
5	AES 805	<b>92</b>	23	<b>78</b>	<b>92</b>	<b>97</b>	<b>49</b>	<b>2</b>
6	Ill. 1349	<b>91</b>	26	<b>81</b>	<b>88</b>	<b>97</b>	54	<b>3</b>
7	Ill. 1850	<b>91</b>	26	76	<b>88</b>	<b>99</b>	53	<b>2</b>
8	Ill. 1935	<b>91</b>	<b>21</b>	<b>80</b>	<b>91</b>	<b>98</b>	<b>48</b>	<b>3</b>
9	Ill. 1849	<b>90</b>	27	73	<b>95</b>	<b>98</b>	51	<b>1</b>
10	Ill. 1852	<b>90</b>	26	74	<b>85</b>	95	51	<b>1</b>
11	Ill. 1889	<b>90</b>	<b>22</b>	<b>78</b>	<b>91</b>	<b>98</b>	<b>48</b>	<b>6</b>
12	Ill. 1918	<b>90</b>	24	<b>79</b>	<b>92</b>	<b>97</b>	<b>48</b>	<b>1</b>
13	Ill. 1928	<b>90</b>	24	<b>78</b>	<b>94</b>	<b>100</b>	<b>50</b>	<b>1</b>
14	Ill. 1945	<b>90</b>	25	<b>80</b>	<b>83</b>	<b>97</b>	51	<b>4</b>
15	Ill. 1909	<b>89</b>	<b>22</b>	<b>80</b>	<b>92</b>	<b>96</b>	<b>48</b>	<b>1</b>
16	Ill. 1919	<b>89</b>	<b>22</b>	<b>80</b>	<b>86</b>	<b>96</b>	<b>47</b>	<b>4</b>
17	Ill. 1771	<b>88</b>	26	<b>79</b>	<b>86</b>	95	<b>50</b>	<b>2</b>
18	Ill. 1856	<b>88</b>	26	75	<b>95</b>	<b>97</b>	51	<b>2</b>
19	Ill. 1948	<b>88</b>	24	<b>80</b>	<b>89</b>	<b>97</b>	<b>49</b>	<b>2</b>
20	U.S. 523W	<b>87</b>	26	77	75	<b>98</b>	<b>49</b>	<b>2</b>
21	Ill. 200	<b>86</b>	24	<b>79</b>	79	<b>96</b>	53	<b>2</b>
22	Ill. 1332	<b>85</b>	24	<b>79</b>	<b>93</b>	<b>97</b>	<b>50</b>	<b>2</b>
23	Ill. 1570	<b>85</b>	23	<b>78</b>	<b>91</b>	<b>98</b>	<b>48</b>	<b>1</b>
24	Ill. 1921	<b>85</b>	25	<b>79</b>	<b>89</b>	<b>96</b>	<b>45</b>	<b>3</b>
25	Ill. 1942	<b>85</b>	26	<b>78</b>	<b>87</b>	<b>100</b>	51	<b>12</b>
26	Ill. 1926	<b>84</b>	23	77	<b>93</b>	<b>96</b>	<b>48</b>	<b>1</b>
27	Ill. 1947	<b>84</b>	25	77	<b>88</b>	<b>100</b>	<b>49</b>	<b>3</b>
28	Ill. 1946	<b>83</b>	24	<b>79</b>	<b>90</b>	<b>96</b>	54	<b>3</b>
29	Ill. 1656	<b>82</b>	24	<b>79</b>	<b>85</b>	95	<b>47</b>	<b>2</b>
30	Ill. 1922	<b>82</b>	24	<b>78</b>	<b>96</b>	<b>99</b>	<b>47</b>	<b>2</b>
31	Ill. 1927	<b>82</b>	24	77	<b>93</b>	<b>98</b>	<b>46</b>	<b>1</b>
32	Ill. 1939	<b>80</b>	25	76	<b>97</b>	<b>99</b>	<b>48</b>	<b>3</b>
33	Ill. 1943	<b>80</b>	25	77	<b>85</b>	<b>96</b>	<b>46</b>	<b>1</b>
34	U.S. 13	<b>80</b>	24	<b>78</b>	79	<b>96</b>	51	<b>1</b>
35	Ill. 1940	<b>79</b>	26	77	<b>92</b>	<b>98</b>	51	<b>2</b>
36	Ill. 1944	<b>79</b>	25	77	<b>85</b>	<b>99</b>	<b>49</b>	<b>4</b>
37	Ill. 1951	<b>79</b>	<b>22</b>	<b>80</b>	<b>85</b>	<b>96</b>	<b>49</b>	<b>2</b>
38	Ill. 1938	<b>77</b>	27	74	<b>93</b>	<b>99</b>	<b>47</b>	<b>4</b>
39	Ill. 1949	<b>77</b>	25	76	<b>94</b>	<b>98</b>	<b>48</b>	<b>1</b>
40	Ill. 1941	<b>67</b>	27	73	<b>85</b>	95	<b>50</b>	<b>8</b>
	Average	86	24	78	89	97	50	2
<b>B—Two-year averages, 1957-1958</b>								
1	Ill. 1851	<b>102</b>	<b>28</b>	<b>76</b>	<b>84</b>	<b>99</b>	53	<b>2</b>
2	Ill. 1660	<b>98</b>	30	76	76	<b>97</b>	<b>48</b>	<b>0</b>
3	U.S. 619W	<b>98</b>	30	76	<b>80</b>	<b>98</b>	<b>46</b>	<b>2</b>
4	Ill. 1893	<b>96</b>	<b>28</b>	<b>76</b>	<b>90</b>	<b>98</b>	52	<b>4</b>
5	Ill. 1913	<b>96</b>	<b>24</b>	<b>82</b>	<b>94</b>	<b>98</b>	<b>48</b>	<b>1</b>
6	Ill. 1928	<b>96</b>	29	<b>78</b>	<b>92</b>	<b>100</b>	50	<b>0</b>
7	Ill. 3141	<b>96</b>	31	<b>79</b>	<b>79</b>	<b>96</b>	52	<b>0</b>
8	Ill. 3129	<b>95</b>	<b>28</b>	<b>77</b>	<b>86</b>	<b>99</b>	<b>48</b>	<b>5</b>
9	Ind. 6874	<b>95</b>	<b>28</b>	<b>75</b>	<b>86</b>	<b>99</b>	49	<b>2</b>
10	AES 805	<b>94</b>	<b>26</b>	<b>76</b>	<b>94</b>	<b>97</b>	<b>46</b>	<b>2</b>
11	Ill. 1539A	<b>94</b>	32	<b>77</b>	<b>90</b>	<b>98</b>	54	<b>3</b>
12	Ill. 1889	<b>94</b>	<b>26</b>	<b>77</b>	<b>90</b>	<b>98</b>	<b>46</b>	<b>7</b>
13	Ill. 3126	<b>94</b>	<b>27</b>	<b>79</b>	<b>92</b>	<b>98</b>	<b>48</b>	<b>0</b>
14	Ill. 3147	<b>94</b>	<b>28</b>	<b>78</b>	<b>82</b>	<b>100</b>	51	<b>1</b>
15	Ill. 1850	<b>92</b>	32	74	<b>85</b>	<b>99</b>	49	<b>2</b>

(Table is continued on next page)

Table 13. — Continued

Rank in yield	Entry	Acre yield	Mois- ture in grain	Shell- ing	Erect plants	Stand	Ear height	Smut
<b>B — Two-year averages, 1957-1958 — Concluded</b>								
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>perct.</i>
16	Ill. 1919.....	92	26	80	82	94	46	4
17	Ill. 1935.....	92	25	78	87	98	46	4
18	Ill. 1945.....	92	30	79	77	96	46	6
19	Ill. 3133.....	92	28	80	86	100	48	5
20	Ill. 3136.....	92	28	78	96	98	46	1
21	Ill. 3143.....	92	28	78	56	98	49	6
22	Ill. 1349.....	91	30	80	88	97	52	3
23	Ill. 1852.....	91	31	70	82	94	48	0
24	Ill. 3149.....	91	28	78	94	94	46	2
25	Ill. 1849.....	90	32	70	94	98	48	1
26	Ill. 1856.....	90	31	72	96	98	48	1
27	Ill. 1909.....	90	26	79	94	95	45	2
28	Ill. 1918.....	90	28	78	93	96	48	0
29	Ill. 1942.....	90	30	76	82	100	49	16
30	Ill. 3138.....	90	28	78	78	98	52	2
31	Ill. 3145.....	90	30	76	92	95	47	4
32	Ill. 3148.....	90	30	78	90	96	44	6
33	U.S. 523W.....	90	32	76	70	99	46	2
34	Ill. 1771.....	89	30	78	82	94	48	3
35	Ill. 1948.....	89	28	79	84	97	48	2
36	Ill. 200.....	88	28	78	75	95	49	3
37	Ill. 1921.....	88	29	77	86	95	44	4
38	Ill. 1947.....	88	30	77	83	100	46	4
39	Ill. 3137.....	88	30	76	83	96	54	2
40	Ill. 3140.....	88	32	74	73	100	53	4
41	Ill. 1946.....	87	29	79	86	94	52	4
42	Ill. 3150.....	87	30	76	83	96	48	1
43	Ill. 1570.....	86	27	76	92	98	46	1
44	Ill. 1880.....	86	26	78	90	96	42	2
45	Ill. 3131.....	86	31	76	86	96	50	3
46	Ill. 3135.....	86	31	74	96	98	49	0
47	Mo. 958.....	86	33	72	66	96	53	2
48	Ill. 3128.....	85	31	76	76	96	54	2
49	Ill. 1332.....	84	28	79	90	96	46	2
50	Ill. 1926.....	84	27	75	91	94	45	1
51	Ill. 1927.....	84	28	77	90	99	43	1
52	Ill. 1939.....	84	28	74	96	98	47	4
53	Ill. 3139.....	84	30	74	96	100	48	2
54	Ill. 3057.....	83	28	80	82	93	43	6
55	Ill. 1922.....	82	28	77	94	98	46	2
56	Ill. 1943.....	82	29	76	80	94	44	2
57	Ill. 1951.....	82	26	80	78	98	46	4
58	Ill. 3127.....	82	31	74	98	94	49	2
59	Ill. 1940.....	80	30	76	88	98	49	3
60	Ill. 3146.....	80	30	71	89	96	51	8
61	U.S. 13.....	80	29	76	74	96	50	1
62	Ill. 1944.....	79	30	77	80	98	46	4
63	Ind. 6615.....	79	32	72	92	99	48	2
64	Ill. 1656.....	78	30	77	84	92	42	3
65	Ill. 1938.....	78	32	72	90	98	44	5
66	Ill. 1949.....	76	30	74	91	96	46	1
67	Ill. 3059.....	76	26	79	86	100	42	0
68	Ill. 3058.....	72	26	77	96	99	46	0
69	Ill. 1941.....	63	32	70	78	93	48	11
	Average.....	88	29	76	86	97	48	3

(Table is continued on next page)



Table 13.—Continued

Rank in yield	Entry	Acre yield	Mois- ture in grain	Shell- ing	Erect plants	Stand	Ear height	Smut
<b>C — 1958 results (3 replications)</b>								
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>perct.</i>
1	Ill. 3141	129	18	87	88	97	49	0
2	Ill. 3190	129	18	85	97	98	51	2
3	Ill. 3192A	127	18	85	93	97	48	2
4	Ill. 3198A	127	17	87	91	98	49	6
5	U.S. 619W	127	18	83	89	98	49	3
6	Ill. 1660	125	19	85	94	97	48	1
7	Ill. 3210	124	18	84	96	100	51	13
8	Ill. 3200A	123	17	88	90	94	50	6
9	Ill. 3211	123	18	84	90	96	49	1
10	Ill. 1856	122	17	86	95	99	49	2
11	Ill. 3193	122	16	88	96	97	48	4
12	Ill. 3204A	121	18	83	97	99	50	6
13	Kan. 4003	121	18	88	85	99	51	3
14	Ill. 1849	120	18	83	99	100	46	2
15	Ill. 3205	120	18	85	93	99	50	7
16	Ill. 3213	120	17	83	93	91	47	2
17	Ill. 1852	119	17	84	94	97	47	1
18	Ill. 1850	118	18	82	95	99	50	3
19	Ill. 1851	118	17	85	94	99	51	3
20	Ill. 3209A	118	17	84	93	97	49	3
21	Ill. 1539A	117	17	84	99	99	52	6
22	Ill. 3205A	117	18	83	92	99	50	11
23	Ill. 3214	117	17	85	94	100	47	9
24	Ill. 3131	116	17	84	93	99	53	6
25	Ill. 3200B	116	17	86	93	91	52	6
26	Ill. 3206	116	18	82	97	96	48	4
27	Ky. 5712	116	18	82	96	100	44	6
28	Ill. 3198B	115	17	87	88	96	50	6
29	Ill. 3209B	115	18	85	83	94	50	7
30	Ill. 3197B	114	18	83	97	97	46	6
31	Ill. 3207	114	18	81	92	99	47	1
32	Ky. 5708	114	18	81	90	98	48	5
33	Ill. 1893	113	16	82	93	98	50	8
34	Ill. 1928	113	17	85	94	100	49	1
35	Ill. 3129	113	16	84	93	99	47	10
36	Ill. 3135	113	17	83	98	99	51	0
37	Ill. 3137	113	17	84	93	94	52	5
38	Ill. 3147	113	17	83	94	100	51	2
39	Ill. 3192	113	17	84	94	88	48	1
40	Ill. 3203	113	18	84	82	100	49	3
41	Ky. 105	113	19	83	80	96	50	10
42	Ill. 3140	112	18	84	99	100	50	8
43	Ill. 3189	112	17	87	82	97	44	5
44	Ill. 3192B	112	17	86	87	91	46	1
45	Ill. 3205B	112	17	85	90	94	46	0
46	Ill. 3215	112	19	82	91	100	48	7
47	Ind. 6874	112	17	84	83	99	48	4
48	U.S. 523W	112	18	84	91	99	46	3
49	Ill. 1889	111	16	84	89	98	47	14
50	Ill. 1913	111	15	90	97	98	47	2
51	Ill. 3138	111	16	85	94	96	49	4
52	Ill. 3145	111	17	83	96	96	48	5
53	Ill. 3195	111	17	88	82	94	45	5
54	Ill. 3196B	111	18	86	90	98	48	6
55	Mo. 958	111	18	82	89	96	52	5
56	Ill. 1349	110	18	88	92	97	49	6
57	Ill. 3126	110	17	86	94	100	47	1
58	Ill. 3197A	110	19	84	94	98	46	8
59	Ill. 3199	110	19	83	89	98	49	2
60	Ill. 3208	110	18	81	93	97	47	7

(Table is concluded on next page)

Table 13.—Concluded

Rank in yield	Entry	Acre yield	Moisture in grain	Shell- ing	Erect plants	Stand	Ear height	Smut
<b>C — 1958 results (3 replications) — Concluded</b>								
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>perct.</i>
61	Ill. 1909	108	15	86	<b>88</b>	<b>98</b>	44	<b>4</b>
62	Ill. 1921	108	16	85	<b>99</b>	<b>96</b>	<b>43</b>	<b>8</b>
63	Ill. 3133	108	17	86	<b>93</b>	<b>100</b>	47	<b>10</b>
64	Ill. 3143	108	18	85	79	<b>97</b>	48	<b>11</b>
65	Ill. 3149	108	16	84	<b>92</b>	<b>94</b>	45	<b>5</b>
66	Ill. 3150	108	17	84	<b>94</b>	<b>96</b>	51	<b>2</b>
67	Mo. 4047BW	108	18	79	<b>93</b>	<b>99</b>	48	<b>2</b>
68	Ill. 1939	107	16	83	<b>96</b>	<b>100</b>	48	<b>8</b>
69	Ill. 1942	107	18	83	<b>86</b>	<b>100</b>	46	32
70	Ill. 3127	107	17	83	<b>99</b>	<b>93</b>	50	<b>3</b>
71	Ill. 3202B	107	17	83	<b>90</b>	<b>96</b>	49	<b>0</b>
72	Ill. 1918	106	16	85	<b>94</b>	<b>97</b>	49	<b>1</b>
73	Ill. 1945	106	18	84	74	<b>94</b>	47	<b>11</b>
74	Ill. 3057	106	17	85	<b>87</b>	<b>94</b>	48	12
75	Ill. 3204B	106	18	84	<b>84</b>	<b>96</b>	48	13
76	U.S. 13	106	16	86	<b>87</b>	<b>99</b>	49	<b>2</b>
77	Ill. 1771	105	18	83	77	<b>97</b>	45	<b>6</b>
78	Ill. 3134	105	17	82	<b>93</b>	<b>92</b>	49	<b>2</b>
79	U.S. 632	105	20	83	<b>91</b>	<b>93</b>	45	<b>7</b>
80	Ill. 3128	104	18	83	<b>88</b>	<b>94</b>	52	<b>5</b>
81	Ill. 3148	104	17	84	83	<b>93</b>	<b>41</b>	<b>9</b>
82	Ill. 3212	104	18	80	<b>90</b>	<b>91</b>	45	<b>6</b>
83	Ky. 2105	104	15	85	<b>91</b>	<b>98</b>	46	<b>7</b>
84	N7002	104	20	77	<b>90</b>	<b>98</b>	51	24
85	AES 805	103	16	83	<b>94</b>	<b>98</b>	46	<b>5</b>
86	Ill. 1947	103	18	83	<b>84</b>	<b>100</b>	46	<b>9</b>
87	Ill. 3136	103	16	83	<b>93</b>	<b>98</b>	46	<b>2</b>
88	Ill. 3202A	103	18	85	<b>90</b>	<b>96</b>	45	<b>4</b>
89	Ill. 1926	102	16	81	<b>96</b>	<b>93</b>	46	<b>2</b>
90	Ill. 3139	102	17	81	<b>98</b>	<b>100</b>	48	<b>3</b>
91	Ill. 200	101	16	82	79	<b>93</b>	48	<b>6</b>
92	Ill. 3146	101	18	85	<b>96</b>	<b>94</b>	47	15
93	Ill. 1943	100	18	83	<b>98</b>	<b>96</b>	47	<b>3</b>
94	Ill. 3196A	100	18	82	76	<b>97</b>	47	<b>8</b>
95	Ind. 6615	100	18	82	<b>88</b>	<b>99</b>	51	<b>5</b>
96	N7000	100	22	78	80	<b>99</b>	57	29
97	Ill. 1938	99	19	81	<b>91</b>	<b>100</b>	<b>43</b>	<b>10</b>
98	Ill. 1946	99	16	85	<b>90</b>	<b>97</b>	47	<b>9</b>
99	Ill. 1948	99	18	85	<b>92</b>	<b>100</b>	45	<b>3</b>
100	Ill. 3209	99	18	84	80	<b>91</b>	47	<b>6</b>
101	Ill. 1332	98	15	85	<b>88</b>	<b>97</b>	45	<b>5</b>
102	Ill. 1570	98	16	84	<b>92</b>	<b>98</b>	45	<b>2</b>
103	Ill. 1880	98	16	85	<b>92</b>	<b>96</b>	45	<b>4</b>
104	N7001	98	20	77	<b>98</b>	<b>94</b>	63	31
105	Ill. 1656	97	16	85	<b>88</b>	<b>99</b>	<b>43</b>	<b>6</b>
106	Ill. 1935	97	15	84	<b>87</b>	<b>97</b>	<b>43</b>	<b>8</b>
107	Ill. 1919	96	16	86	72	<b>97</b>	45	<b>8</b>
108	Kan. 2606	96	18	80	<b>87</b>	<b>99</b>	48	<b>0</b>
109	Ill. 1927	95	16	83	<b>97</b>	<b>99</b>	44	<b>2</b>
110	Ill. 1940	92	18	84	<b>93</b>	<b>96</b>	48	<b>6</b>
111	Ill. 1949	92	18	84	<b>91</b>	<b>96</b>	44	<b>2</b>
112	Ill. 3201	92	17	81	74	<b>97</b>	44	<b>6</b>
113	N7003	91	20	78	<b>91</b>	<b>93</b>	54	45
114	Ill. 1944	90	18	83	<b>87</b>	<b>97</b>	<b>43</b>	<b>7</b>
115	Ill. 1951	89	15	85	<b>90</b>	<b>98</b>	<b>38</b>	<b>7</b>
116	Ill. 1922	87	17	82	<b>97</b>	<b>100</b>	<b>43</b>	<b>4</b>
117	Ill. 3059	85	17	85	<b>96</b>	<b>100</b>	<b>41</b>	<b>1</b>
118	Ill. 3058	78	17	82	<b>94</b>	<b>99</b>	<b>43</b>	<b>1</b>
119	Ill. 1941	73	18	82	72	89	45	22
	Average	108	17	84	90	97	48	6

Table 14.—THREE-WAY, SINGLE, AND DOUBLE CROSSES OF ILLINOIS 1851 MATURITY

Tested in South-Central Illinois, 1958

(Data in boldface were not statistically different from the best performance for that characteristic)

Code	Entry	Acre yield	Moisture in grain	Shelling	Erect plants	Stand	Ear height	Smut
<b>A — Inbred lines crossed with (B41×Oh7A)</b>								
		<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>in.</i>	<i>perct.</i>
1	R90.....	99	15	86	<b>99</b>	83	48	<b>3</b>
2	R190.....	113	16	86	<b>94</b>	<b>97</b>	52	<b>2</b>
3	R191.....	111	17	85	<b>98</b>	<b>94</b>	48	<b>0</b>
4	38-11.....	<b>131</b>	16	88	<b>93</b>	<b>100</b>	55	<b>7</b>
5	K708.....	118	17	85	<b>95</b>	<b>91</b>	51	<b>2</b>
6	K720.....	111	17	88	<b>98</b>	<b>92</b>	<b>45</b>	<b>1</b>
7	K763.....	<b>124</b>	16	86	<b>100</b>	<b>98</b>	<b>46</b>	<b>2</b>
8	K5-50.....	106	17	80	<b>95</b>	<b>93</b>	49	<b>1</b>
9	K6-49.....	<b>130</b>	20	84	<b>99</b>	<b>93</b>	52	<b>5</b>
10	Ky55-549.....	<b>121</b>	18	86	<b>96</b>	<b>99</b>	<b>43</b>	<b>3</b>
11	Ky55-562.....	<b>122</b>	17	86	<b>97</b>	<b>87</b>	48	10
12	Ky56-433.....	111	16	84	<b>98</b>	<b>98</b>	<b>45</b>	<b>5</b>
13	Mo. Syn.....	111	16	88	<b>99</b>	<b>96</b>	<b>45</b>	<b>1</b>
14	Mo3952.....	90	16	85	82	72	<b>42</b>	<b>5</b>
15	Mo3957.....	112	16	82	<b>93</b>	<b>96</b>	<b>44</b>	<b>0</b>
16	Mo9681.....	112	16	87	<b>100</b>	<b>93</b>	<b>45</b>	12
17	Mo53686.....	101	18	83	<b>97</b>	<b>92</b>	48	4
18	Oh41.....	107	17	86	83	<b>99</b>	<b>44</b>	<b>0</b>
19	Va6-52.....	117	17	82	<b>97</b>	<b>100</b>	48	<b>3</b>
20	Va6-58.....	115	17	83	83	<b>97</b>	<b>44</b>	<b>1</b>
21	Va6-71.....	118	17	85	90	<b>98</b>	<b>46</b>	<b>1</b>
22	Va6-79.....	119	18	81	<b>98</b>	<b>96</b>	<b>46</b>	<b>1</b>
23	Va6-112.....	106	17	85	<b>94</b>	<b>93</b>	48	<b>1</b>
24	Va6-118.....	111	18	83	<b>94</b>	<b>99</b>	<b>46</b>	<b>0</b>
25	Va6-136.....	114	18	84	<b>93</b>	<b>100</b>	<b>45</b>	<b>3</b>
26	Va6-224.....	<b>137</b>	16	87	<b>98</b>	<b>100</b>	50	<b>0</b>
27	Cl.21E.....	<b>127</b>	18	84	<b>99</b>	<b>93</b>	51	<b>1</b>
28	Cl.38B.....	113	16	83	<b>95</b>	<b>92</b>	49	<b>0</b>
29	(Cl.21E×Cl.42A).....	<b>130</b>	19	91	<b>93</b>	<b>100</b>	50	<b>4</b>
	Average.....	115	17	85	95	95	47	3
<b>B — Single cross</b>								
30	B41×Oh7A.....	113	17	87	<b>99</b>	<b>96</b>	50	<b>0</b>
<b>C — Double crosses</b>								
31	Ill. 1851.....	<b>125</b>	17	85	<b>99</b>	<b>98</b>	55	7
32	Ill. 1913.....	<b>120</b>	14	89	<b>92</b>	<b>93</b>	49	<b>1</b>
34	Ill. 6052.....	112	15	86	<b>95</b>	<b>94</b>	52	<b>4</b>
35	AES 805.....	112	15	87	<b>98</b>	<b>97</b>	<b>42</b>	<b>5</b>
33	Ill. 6021.....	109	14	86	87	<b>97</b>	53	<b>2</b>
36	U.S. 13.....	107	16	87	<b>99</b>	<b>92</b>	<b>46</b>	<b>1</b>
	Average.....	114	15	87	95	95	50	3
	Average of 36 entries.....	115	17	85	95	95	48	3

Table 15.—PERFORMANCE OF HIGH-OIL HYBRIDS  
AVAILABLE FOR COMMERCIAL PRODUCTION

Entry	Acres yield	Oil	Protein	Moisture in grain	Shelling	Erect plants	Stand	Ear height	Smut
<b>A — Northern Illinois, DeKalb, 1958</b>									
	bu.	perct. lb. per acre	perct. lb. per acre	perct.	perct.	perct.	perct.	in.	perct.
Ill. 6021.....	102	5.41	309	514	39	75	48	62	..
Ill. 6052.....	124	5.44	378	725	40	83	66	59	..
U.S. 13.....	122	4.49	307	645	34	76	69	57	..
Average.....	116	5.11	331	628	38	78	61	59	..
<b>B — North-Central Illinois, Peoria, 1958</b>									
Ill. 6021.....	120	5.09	342	613	18	83	73	61	7
Ill. 6052.....	130	6.68	486	728	18	82	72	63	3
Average.....	125	5.88	414	670	18	82	72	62	5
<b>C — Central Illinois, Urbana, 1954-1958</b>									
Ill. 6021.....	110	6.39	393	679	20	..	83	..	..
Ill. 6052.....	112	6.27	390	707	22	..	81	..	..
U.S. 13.....	116	4.77	311	665	20	..	86	..	..
Average.....	113	5.81	365	684	21	..	83	..	..
<b>D — South-Central Illinois, Brownstown, 1958</b>									
Ill. 6021.....	109	6.61	403	614	14	86	87	53	2
Ill. 6052.....	112	5.26	330	643	15	86	95	52	4
U.S. 13.....	107	4.44	266	573	16	87	99	46	1
Average.....	109	5.44	333	610	15	86	94	50	2

TABLE 16.—DOUBLE-CROSS HYBRID NUMBERS,  
PEDIGREES, AND INDEX TO TABLES

(Hybrids that were high yielding and had excellent standability are indicated by table numbers in boldface type)

Hybrid	Pedigree	Table No.
AES 510	(WF9 × W22) (H19 × B9)	2ABC
AES 601	(M14 × B14) (WF9 × W22)	<b>2ABC</b>
AES 610 (III. 1580)	(M14 × A73) (Oh43 × Oh51A)	2ABC
AES 702 (III. 1790)	(C103 × M14) (Hy2 × WF9)	<b>2ABC, 4ABC, 5D, 6ABC, 10B</b>
AES 704 (III. 3016A)	(WF9 × Oh43) (B14 × B37)	<b>4ABC</b>
AES 805 (III. 1770)	(C103 × Oh45) (WF9 × 38-11)	<b>4ABC, 6ABC, 10B, 13ABC, 14C</b>
AES 808	(WF9 × 38-11) (H14 × Oh43)	6ABC
AES 809	(C103 × Oh43) (PB × WF9)	<b>6ABC</b>
AES 810	(WF9 × H50) (Oh7B × Oh45)	<b>6ABC</b>
AES 811W	(H30 × K41) (Mo1W × N72)	<b>6ABC</b>
III. 21	(Hy2 × 187-2) (WF9 × 38-11)	2ABC, 4ABC, 6ABC
III. 21-2	(HyR × 187R) (WF9TMS × 38-11)	4C
III. 21-3	(WF9 × 38-11) (187-2 × Cl.42A)	4C
III. 21-4	(HyR × 187-2) (WF9TMS × 38-11)	4C
III. 101	(M14 × WF9) (187-2 × W26)	2ABC
III. 200	(WF9 × 38-11) (L317 × K4)	13ABC
III. 274-1	(Hy2 × WF9) (Oh7 × 187-2)	4ABC, <b>6ABC</b>
III. 972A-1	(Hy2 × L317) (WF9 × Oh7)	4ABC, <b>6ABC</b>
III. 1091A	(Hy2 × 187-2) (M14 × WF9)	2ABC
III. 1277	(M14 × WF9) (I.205 × 187-2)	2ABC, 3D, <b>4ABC, 10B</b>
III. 1279	(M14 × WF9) (A375 × 187-2)	2ABC
III. 1281	(M14 × WF9) (A374 × A375)	2ABC
III. 1289	(M14 × W22) (WF9 × I.205)	2ABC
III. 1332	(Hy2 × Oh7) (WF9 × 38-11)	<b>4ABC, 6ABC, 7, 13ABC</b>
III. 1332-2	(HyR × Oh7R) (WF9TMS × 38-11)	6BC
III. 1332-3	(WF9 × 38-11) (Oh7 × Cl.42A)	<b>6BC</b>
III. 1332-4	(HyR × Oh7) (WF9TMS × 38-11)	<b>6BC</b>
III. 1349	(38-11 × Mo940) (K155 × K201)	13ABC
III. 1511	(Hy2 × WF9) (38-11 × L304A)	4ABC, 6ABC
III. 1511A1	(HyR × L304A) (WF9 × 38-11MS)	4C, 6C
III. 1539A	(38-11 × Cl.7) (K201 × Cl.21E)	<b>13ABC</b>
III. 1555A	(WF9 × Oh51A) (I.224 × Oh28)	<b>2ABC, 4ABC</b>
III. 1557	(M14 × Oh28) (I.205 × Oh51A)	2ABC
III. 1559B	(M14 × Oh28) (WF9 × Oh51A)	<b>2ABC</b>
III. 1560A	(WF9 × Oh51A) (I.205 × Oh28)	<b>2ABC</b>
III. 1570	(Hy2 × Oh41) (WF9 × 38-11)	4ABC, 6ABC, 7, <b>12B, 13ABC</b>
III. 1570-1	(HyR × Oh41) (WF9TMS × 38-11)	6BC, 7
III. 1570-2	(WF9 × 38-11) (Oh41 × Cl.42A)	6BC
III. 1570A	(Hy2 × WF9) (38-11 × Oh41)	6BC, 7
III. 1575	(M14 × WF9) (L12 × Oh28)	2ABC, 4ABC
III. 1656	(C103 × Hy2) (WF9 × 38-11)	6ABC, 13ABC
III. 1656-1	(C103 × HyR) (WF9TMS × 38-11)	6BC
III. 1656-2	(C103 × Cl.42A) (WF9 × 38-11)	6BC
III. 1660	(K4 × K201) (Oh7 × Cl.21E)	6BC, 7, <b>13BC</b>
III. 1731B	(C103 × WF9TMS) (HyR × Oh7B)	6C
III. 1771	(Oh7B × Cl.7) (T8 × Cl.21E)	13ABC
III. 1813	(C103 × Oh45) (Hy2 × WF9)	<b>6ABC</b>
III. 1814	(Hy2 × WF9) (M14 × Oh45)	4ABC
III. 1831	(WF9 × W146) (K237 × Oh45)	<b>4ABC</b>
III. 1849	(C103 × 38-11) (K201 × Cl.21E)	<b>13ABC</b>

(Table is continued on next page)

Table 16.—Continued

Hybrid	Pedigree	Table No.
III. 1850	(C103 × C1.21E) (38-11 × K201)	13ABC
III. 1851	(C103 × 38-11) (Oh7 × C1.21E)	6BC, 7, 10B, 13ABC, 14C
III. 1852	(C103 × C1.21E) (38-11 × Oh7)	6BC, 13ABC
III. 1856	(38-11 × Oh7) (K201 × C1.21E)	6BC, 13ABC
III. 1857	(38-11 × Oh41) (K201 × C1.21E)	6BC
III. 1862 (Iowa 4779)	(M14 × WF9) (Oh43 × Oh51A)	2ABC
III. 1863	(M14 × WF9) (I.205 × Oh43)	2ABC, 4ABC
III. 1864	(M14 × WF9) (Oh43 × W22)	2ABC
III. 1866	(M14 × WF9) (Oh26A × Oh45)	2ABC
III. 1868	(C103 × Oh43) (Hy2 × WF9)	4ABC
III. 1875	(C103 × 38-11) (Hy2 × WF9)	4ABC
III. 1880	(R103 × R104) (WF9 × 38-11)	6ABC, 7, 13BC
III. 1889	(C103 × Oh45) (38-11 × Oh29)	6ABC, 13ABC
III. 1890	(C103 × Oh45) (R75 × 38-11)	6ABC
III. 1893	(C103 × 38-11) (Oh7B × Oh29)	6ABC, 13ABC
III. 1909	(R130 × R151) (WF9 × 38-11)	6ABC, 13ABC
III. 1913	(R151 × R154) (WF9 × 38-11)	13ABC, 14C
III. 1916	(R130 × R154) (WF9 × 38-11)	6ABC
III. 1918	(R151 × R153) (WF9 × 38-11)	6ABC, 7, 13ABC
III. 1919	(R130 × R156) (WF9 × 38-11)	4ABC, 6ABC, 7, 13ABC
III. 1921	(R71 × R105) (WF9 × 38-11)	4ABC, 6ABC, 13ABC
III. 1922	(Hy2 × WF9) (R71 × R105)	6ABC, 13ABC
III. 1925	(Hy2 × WF9) (R71 × R113)	6BC
III. 1926	(R71A × R74) (R75 × 38-11)	6ABC, 13ABC
III. 1927	(Hy2 × WF9) (R71A × R74)	6ABC, 13ABC
III. 1928	(R75 × 38-11) (R98 × R105)	4ABC, 6ABC, 13ABC
III. 1930	(Hy2 × WF9) (R98 × R105)	6C
III. 1935	(C103 × R101) (R75 × 38-11)	6ABC, 13ABC
III. 1936	(Hy2 × WF9) (M14 × B14)	2ABC, 4ABC
III. 1938	(R71 × R105) (R98 × R153)	6BC, 7, 13ABC
III. 1939	(R71 × R98) (R105 × R153)	6BC, 7, 13ABC
III. 1940	(R71 × R153) (R98 × R105)	6BC, 7, 13ABC
III. 1941	(R98 × R105) (R130 × R153)	13ABC
III. 1942	(R98 × R153) (R105 × R130)	6BC, 7, 13ABC
III. 1943	(R71 × R105) (R153 × R154)	6BC, 7, 13ABC
III. 1944	(R71 × R98) (R130 × R153)	6BC, 7, 13ABC
III. 1945	(R98 × R151) (R105 × R130)	6BC, 7, 13ABC
III. 1946	(R98 × R155) (R105 × R130)	6BC, 7, 13ABC
III. 1947	(R105 × R130) (R153 × R155)	6BC, 7, 13ABC
III. 1948	(R105 × R151) (R153 × R154)	6BC, 7, 13ABC
III. 1949	(R71 × R105) (R151 × R153)	13ABC
III. 1951	(R71 × R130) (R98 × R155)	6BC, 7, 13ABC
III. 1952	(M14 × B14) (A545 × W64A)	2ABC
III. 1953	(M14 × A223) (B14 × W64A)	2ABC
III. 1955	(M14 × A297) (B14 × W64A)	2ABC
III. 1956	(M14 × A545) (B14 × A239)	2ABC
III. 1957	(M14 × A545) (B14 × W64A)	2ABC
III. 1958	(M14 × Oh26A) (B14 × A545)	2ABC
III. 1959 (Ind. 6225)	(M14 × W64A) (B14 × A297)	2ABC
III. 1960	(M14 × W64A) (B14 × A545)	2ABC
III. 1961	(B14 × A545) (A239 × W64A)	2ABC
III. 1962	(B14 × A545) (A297 × W64A)	2ABC
III. 1966	(R163 × R165) (WF9 × B14)	4ABC

(Table is continued on next page)

Table 16.—Continued

Hybrid	Pedigree	Table No.
III. 1967	(R163 × R168) (WF9 × B14)	4ABC
III. 1968	(R163 × R169) (WF9 × B14)	4ABC
III. 1969	(R165 × R168) (WF9 × B14)	4ABC
III. 1970	(R165 × R169) (WF9 × B14)	4ABC
III. 1971	(R168 × R169) (WF9 × B14)	4ABC
III. 1973	(R163 × R168) (R165 × R169)	6ABC
III. 1974	(R163 × R169) (R165 × R168)	6ABC
III. 1975	(WF9 × Cl.38B) (Cl.42A × Cl.317B)	6ABC
III. 1976	(38-11 × Oh41) (Oh7 × Cl.21E)	6BC, 7
III. 1977	(WF9 × 38-11) (Oh29 × Oh41)	6BC, 7
III. 1978	(C103 × 38-11) (WF9 × Oh7A)	6BC, 7
III. 1980	(C103 × B14) (WF9 × 38-11)	6BC, 7
III. 1981	(WF9 × 38-11) (Oh7 × Cl.21E)	6BC, 7
III. 1982	(C103 × 38-11) (WF9 × Cl.21E)	6BC, 7
III. 1983	(Hy2 × B14) (WF9 × 38-11)	6BC, 7
III. 1983-1	(HyR × B14) (WF9 × 38-11MS)	6C
III. 1984	(Hy2 × WF9) (Oh29 × Oh41)	6BC, 7
III. 1985	(Hy2 × WF9) (R61 × Oh41)	6BC, 7
III. 1986	(Hy2 × WF9) (Oh43 × 187-2)	6BC, 7
III. 1987	(C103 × B10) (Hy2 × WF9)	6BC, 7
III. 1988	(C103 × R61) (Hy2 × WF9)	6BC, 7
III. 1989	(Hy2 × WF9) (M14 × Oh29)	6BC, 7
III. 1990	(Hy2 × WF9) (M14 × Oh43)	6BC, 7
III. 1991	(C103 × B10) (WF9 × Oh7A)	6BC, 7
III. 1992	(C103 × B14) (WF9 × Oh7A)	6BC, 7
III. 1993	(WF9 × Oh41) (B10 × B14)	6BC, 7
III. 1994	(C103 × WF9) (Oh29 × Oh41)	6BC, 7
III. 1995	(Hy2 × Oh7) (38-11 × Oh41)	6BC, 7
III. 1996	(C103 × B14) (Hy2 × Oh7)	6BC, 7
III. 1997	(C103 × Oh41) (Hy2 × Oh7)	6BC, 7
III. 1999	(C103 × Oh43) (M14 × WF9)	2BC
III. 3002 (CB4603)	(B14 × A297) (A295 × W64A)	2C
III. 3007	(R161 × WF9) (R169 × B14)	2BC
III. 3008	(R165 × WF9) (R168 × B14)	2BC
III. 3009	(B14 × B21) (A297 × W64A)	2BC
III. 3010	(C103 × N24) (WF9 × B14)	4BC
III. 3011	(C103 × Oh43) (WF9 × B14)	4BC, 6C
III. 3013	(C103 × Oh41) (Hy2 × WF9)	6C
III. 3014	(Hy2 × WF9) (B14 × Oh41)	4BC
III. 3015A	(WF9 × B14) (B37 × N24)	4BC
III. 3015B	(WF9 × N24) (B14 × B37)	4C
III. 3016	(WF9 × B14) (B37 × Oh43)	2BC, 4BC
III. 3017	(WF9 × B14) (B37 × Oh45)	4BC
III. 3018	(WF9 × B14) (B38 × N24)	4BC
III. 3019	(WF9 × B14) (B38 × Oh43)	4BC
III. 3020	(WF9 × B14) (N6 × Oh43)	4BC
III. 3021	(WF9 × B14) (N6 × Oh45)	4BC
III. 3022	(WF9 × B14) (N22A × Oh43)	4BC
III. 3023A	(WF9 × B14) (N24 × Oh43)	2C, 4BC
III. 3023B	(WF9 × N24) (B14 × Oh43)	2C, 4C
III. 3024	(WF9 × B14) (N24 × Oh422)	4BC
III. 3025	(WF9 × B14) (N610 × Oh43)	4BC

(Table is continued on next page)

Table 16.—Continued

Hybrid	Pedigree	Table No.
III. 3026	(WF9 × B14) (N610 × Oh45)	4BC
III. 3027	(WF9 × B14) (N611 × Oh43)	4BC
III. 3028 (CB4726A)	(WF9 × B14) (Oh28 × Oh43)	4ABC, 5D
III. 3029	(WF9 × B14) (Oh43 × Oh45)	4BC
III. 3030	(WF9 × B14) (Oh43 × Oh422)	4BC
III. 3032	(WF9 × B38) (Oh28 × Oh43)	4BC
III. 3034	(WF9 × N6) (Oh28 × Oh43)	4BC
III. 3035	(WF9 × N613) (Oh28 × Oh43)	4BC
III. 3036	(B14 × N6) (Oh28 × Oh43)	4BC
III. 3038	(B37 × Oh26A) (Oh28 × Oh43)	4BC
III. 3039	(B37 × B38) (Oh28 × Oh43)	4BC
III. 3042	(WF9 × B14) (B40 × Oh45)	4BC
III. 3043	(R71 × R109B) (WF9 × B14)	2BC, 4BC
III. 3044	(R109B × R113) (WF9 × B14)	2BC, 4BC
III. 3045	(R109B × R168) (WF9 × B14)	2BC, 4BC
III. 3046	(R113 × R168) (WF9 × B14)	2BC, 4BC
III. 3047	(R71 × R113) (WF9 × B14)	2BC, 4BC
III. 3048	(R71 × R168) (WF9 × B14)	2BC, 4BC
III. 3049	(Hy2 × WF9) (R71 × R109B)	6BC
III. 3050	(Hy2 × WF9) (R109B × R113)	6BC
III. 3051	(Hy2 × WF9) (R109B × R168)	6BC
III. 3052	(Hy2 × WF9) (R113 × R168)	6BC
III. 3053	(R71 × R109B) (WF9 × 38-11)	6C
III. 3054	(R109B × R113) (WF9 × 38-11)	6BC
III. 3055	(R109B × R168) (WF9 × 38-11)	6BC
III. 3056	(R113 × R168) (WF9 × 38-11)	6BC
III. 3057	(R71 × R109B) (R113 × R168)	4C, 6BC, 13BC
III. 3058	(R71 × R113) (R109B × R168)	6BC, 13BC
III. 3059	(R71 × R168) (R109B × R113)	6BC, 13BC
III. 3060	(R129 × R159) (R166 × R168)	6BC
III. 3061	(R129 × R159) (R168 × R169)	6BC
III. 3062	(R159 × R161) (R168 × R169)	6BC
III. 3064	(R159 × R163) (R166 × R168)	6BC
III. 3065	(R159 × R163) (R168 × R169)	6BC
III. 3069	(R71 × R101) (R105 × R129)	6BC
III. 3070	(R71 × R105) (R163 × R168)	6BC
III. 3071	(R71 × R129) (R101 × R105)	6BC
III. 3073	(R71 × R163) (R105 × R168)	6BC
III. 3074	(R71 × R168) (R105 × R163)	6BC
III. 3075	(Hy2 × WF9) (R95 × R101)	6BC
III. 3076	(Hy2 × WF9) (R96 × R101)	6BC
III. 3077	(Hy2 × WF9) (R96 × B36)	6BC
III. 3080	(Hy2 × WF9) (R101 × Oh451)	6BC
III. 3082	(Hy2 × WF9) (R109B × B38)	6BC
III. 3083	(Hy2 × WF9) (R109B × K720)	6BC
III. 3084	(Hy2 × WF9) (R127 × B38)	6BC
III. 3086	(Hy2 × WF9) (R127 × K720)	6BC
III. 3087	(Hy2 × WF9) (R127 × K721)	6BC
III. 3088	(Hy2 × WF9) (R127 × N25)	6BC
III. 3091	(Hy2 × WF9) (B38 × L317)	6BC
III. 3092	(Hy2 × WF9) (B38 × K720)	6BC
III. 3093	(Hy2 × WF9) (B38 × N25)	6BC
III. 3094	(Hy2 × WF9) (B38 × N35)	6BC

(Table is continued on next page)



Table 16. — Continued

Hybrid	Pedigree	Table No.
III. 3095	(Hy2 × WF9) (L317 × K720)	6BC
III. 3096	(R74 × R101) (R129 × WF9)	6BC
III. 3097	(R95 × R101) (WF9 × 38-11)	6BC
III. 3099 (CB48048)	(R101 × N5) (WF9 × 38-11)	6C
III. 3100	(R101 × N12) (WF9 × 38-11)	6BC
III. 3101	(R101 × N23) (WF9 × 38-11)	6BC
III. 3104	(R109B × N25) (WF9 × 38-11)	<b>6BC</b>
III. 3105	(R129 × R154) (WF9 × 38-11)	6BC
III. 3106	(R129 × N25) (WF9 × 38-11)	6BC
III. 3107	(R154 × B38) (WF9 × 38-11)	<b>6BC</b>
III. 3108	(R154 × K721) (WF9 × 38-11)	6BC
III. 3109	(R154 × K722) (WF9 × 38-11)	6BC
III. 3110	(R154 × N25) (WF9 × 38-11)	6BC
III. 3111	(R159 × R163) (R168 × WF9)	6BC
III. 3112	(WF9 × 38-11) (B38 × N25)	6BC
III. 3113	(WF9 × 38-11) (K722 × N25)	6BC
III. 3114	(Hy2 × WF9) (R101 × CI.38B)	6BC
III. 3115	(R127 × N35) (WF9 × 38-11)	<b>6BC</b>
III. 3116	(R127 × K721) (WF9 × 38-11)	6BC
III. 3117	(R127 × R154) (WF9 × 38-11)	<b>6BC</b>
III. 3118	(Hy2 × WF9) (38-11 × B38)	6BC
III. 3119	(Hy2 × WF9) (R154 × B38)	<b>6BC</b>
III. 3120	(Hy2 × WF9) (R127 × 38-11)	6BC
III. 3121	(Hy2 × WF9) (R127 × R154)	<b>6BC</b>
III. 3124	(Hy2 × WF9) (R71 × R168)	4BC, <b>6BC</b>
III. 3125	(R71 × R168) (WF9 × 38-11)	6BC
III. 3126	(R101 × Mo3) (38-11 × K201)	<b>13BC</b>
III. 3127	(38-11 × K201) (Mo3 × Mo8)	13BC
III. 3128	(38-11 × K201) (Mo3 × Mo9)	13BC
III. 3129	(R101 × Mo8) (38-11 × K201)	<b>13BC</b>
III. 3131	(R129 × Mo3) (38-11 × K201)	<b>13BC</b>
III. 3133	(R127 × Mo3) (38-11 × K201)	<b>13BC</b>
III. 3134 (CB5916)	(R74 × Mo3) (38-11 × K201)	13C
III. 3135	(R71A × Mo3) (38-11 × K201)	<b>13BC</b>
III. 3136	(R74 × R101) (38-11 × K201)	<b>13BC</b>
III. 3137	(38-11 × K201) (Mo4 × Mo9)	13BC
III. 3138	(R129 × Mo9) (38-11 × K201)	13BC
III. 3139	(R71A × R101) (38-11 × K201)	13BC
III. 3140	(38-11 × K201) (Ky126 × CI.21E)	<b>13BC</b>
III. 3141	(38-11 × K201) (K763 × Ky126)	13BC
III. 3143	(38-11 × K201) (Ky126 × Oh7B)	6C, 13BC
III. 3145	(R129 × Mo9150) (38-11 × K201)	<b>13BC</b>
III. 3146	(R118 × Mo9150) (38-11 × K201)	13BC
III. 3147	(R118 × R129) (38-11 × K201)	<b>13BC</b>
III. 3148	(R74 × Mo9150) (38-11 × K201)	13BC
III. 3149	(R74 × R129) (38-11 × K201)	<b>13BC</b>
III. 3150	(R74 × R118) (38-11 × K201)	13BC
III. 3151	(WF9 × 38-11) (B14 × Oh41)	<b>6BC</b>
III. 3152	(M14 × WF9) (B14 × Oh43)	<b>2BC</b>
III. 3152A	(M14 × B14) (WF9 × Oh43)	<b>2C</b>
III. 3159	(M14 × 187-2) (WF9 × Oh43)	2C
III. 3160	(WF9 × Oh7) (B14 × Oh43)	<b>4BC</b>

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Table 16. — Continued

Hybrid	Pedigree	Table No.
III. 3162.	(M14 × N24) (WF9 × Oh43)	2C
III. 3163.	(M14 × N24) (B14 × Oh43)	2C
III. 3164.	(M14 × Oh28) (A545 × Oh43)	2C
III. 3167A.	(WF9 × A545) (B37 × Oh43)	2C
III. 3167B.	(WF9 × B37) (A545 × Oh43)	2C
III. 3168.	(WF9 × Oh43) (B37 × N24)	2C
III. 3168A.	(WF9 × B37) (N24 × Oh43)	2C
III. 3168B.	(WF9 × N24) (B37 × Oh43)	2C
III. 3169A.	(WF9 × Oh28) (B37 × Oh43)	2C
III. 3169B.	(WF9 × Oh43) (B37 × Oh28)	2C
III. 3169C.	(WF9 × B37) (Oh28 × Oh43)	2C
III. 3170.	(WF9 × Oh43) (N24 × Oh28)	2C
III. 3171.	(B14 × Oh43) (B37 × N24)	2C
III. 3172.	(B14 × Oh28) (A545 × Oh43)	2C
III. 3173.	(B14 × Oh43) (A545 × N24)	2C
III. 3174.	(B37 × Oh28) (A297 × Oh43)	2C
III. 3175.	(B37 × Oh43) (A545 × N24)	2C
III. 3176A.	(B37 × A545) (Oh28 × Oh43)	2C
III. 3176B.	(B37 × Oh43) (A545 × Oh28)	2C
III. 3177.	(B37 × Oh43) (N24 × Oh28)	2C
III. 3178.	(A297 × Oh43) (A545 × Oh28)	2C
III. 3179.	(R101 × R105) (R151 × Cl.42A)	4C, 6C
III. 3180.	(R101 × R153) (R130 × Cl.42A)	4C, 6C
III. 3181.	(R101 × R153) (R151 × Cl.42A)	4C, 6C
III. 3182.	(R105 × R151) (R154 × WF9)	4C, 6C
III. 3183.	(R105 × R153) (R154 × WF9)	4C, 6C
III. 3184.	(R105 × Cl.42A) (R154 × WF9)	4C, 6C
III. 3185.	(R130 × R151) (R153 × R154)	4C, 6C
III. 3186.	(R151 × Cl.42A) (R154 × WF9)	4C, 6C
III. 3187.	(R151 × R154) (WF9 × Cl.317B)	4C, 6C
III. 3188.	(R154 × Cl.42A) (WF9 × Cl.317B)	4C, 6C
III. 3189.	(C103 × 38-11) (Ky126 × Oh7B)	6C, 13C
III. 3190.	(C103 × K201) (Ky126 × Oh7B)	6C, 13C
III. 3192.	(C103 × Oh7B) (Ky126 × N82481)	6C, 13C
III. 3192A.	(C103 × Ky126) (N82481 × Oh7B)	6C, 13C
III. 3192B.	(C103 × N82481) (Ky126 × Oh7B)	6C, 13C
III. 3193.	(38-11 × K712) (K201 × Oh7B)	13C
III. 3195.	(38-11 × N82481) (Ky126 × Oh7B)	13C
III. 3196A.	(K201 × K712) (Oh7B × Oh41)	13C
III. 3196B.	(K201 × Oh41) (K712 × Oh7B)	13C
III. 3197A.	(K201 × Oh7B) (K712 × Cl.21E)	13C
III. 3197B.	(K201 × Cl.21E) (K712 × Oh7B)	13C
III. 3198A.	(K201 × Ky126) (N82481 × Oh7B)	13C
III. 3198B.	(K201 × N82481) (Ky126 × Oh7B)	13C
III. 3199.	(K201 × Ky126) (N82481 × Oh41)	13C
III. 3200A.	(K712 × Ky126) (N82481 × Oh7B)	13C
III. 3200B.	(K712 × Oh7B) (Ky126 × N82481)	13C
III. 3201.	(K712 × Ky126) (Oh7B × Oh41)	13C
III. 3202A.	(K712 × N82481) (Oh7B × Cl.21E)	13C
III. 3202B.	(K712 × Oh7B) (N82481 × Cl.21E)	13C
III. 3203.	(K712 × Cl.21E) (Oh7B × Oh41)	13C
III. 3204A.	(C103 × K712) (K201 × Ky126)	13C
III. 3204B.	(C103 × Ky126) (K201 × K712)	13C
III. 3205.	(C103 × Oh7B) (K201 × K712)	13C
III. 3205A.	(C103 × K201) (K712 × Oh7B)	13C

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Table 16.—Continued

Hybrid	Pedigree	Table No.
III. 3205B	(C103 × K712) (K201 × Oh7B)	13C
III. 3206	(C103 × K712) (K201 × Cl.21E)	<b>13C</b>
III. 3207	(C103 × Oh7B) (K201 × N82481)	13C
III. 3208	(C103 × Oh7B) (K201 × Cl.21E)	13C
III. 3209	(C103 × Oh7B) (K712 × Ky126)	13C
III. 3209A	(C103 × K712) (Ky126 × Oh7B)	13C
III. 3209B	(C103 × Ky126) (K712 × Oh7B)	13C
III. 3210	(C103 × K712) (Ky126 × Cl.21E)	<b>13C</b>
III. 3211	(C103 × K712) (Oh7B × Cl.21E)	13C
III. 3212	(C103 × Oh41) (K712 × Cl.21E)	13C
III. 3213	(C103 × N82481) (Oh7B × Cl.21E)	13C
III. 3214	(K201 × Ky126) (K712 × Oh7B)	<b>13C</b>
III. 3215	(K712 × Oh41) (Ky126 × Cl.21E)	13C
III. 3286	(C103 × WF9TMS) (HyR × 187-2R)	.6C
III. 3287	(C103 × Oh43) (WF9 × Oh51A)	<b>4C</b>
III. 3288	(M14 × Oh28) (WF9 × Oh43)	.2C
III. 3289	(C103 × Oh28) (WF9 × Oh43)	.2C
III. 3290	(C103 × Os420) (WF9 × Oh43)	.2C
III. 3291	(P8 × WF9) (B14 × Oh43)	<b>4C</b>
III. 3292	(Hy2 × WF9) (R61 × B14)	.4C
III. 3293	(Hy2 × WF9) (B14 × 187-2)	.4C
III. 3294	(C103 × Hy2) (P8 × WF9)	<b>4C</b>
III. 3295	(C103 × B14) (P8 × WF9)	.6C
III. 3296	(C103 × B14) (R61 × WF9)	.6C
III. 3297	(Hy2 × WF9) (B14 × Oh43)	.6C
III. 3298	(C103 × B14) (Oh7 × Cl.21E)	.6C
III. 3299	(C103 × B14) (WF9 × Cl.42A)	.6C
III. 2246W	(R144 × R145) (R148 × R149)	.6BC, 7
III. 2247W	(R144 × R145) (R146 × R148)	<b>2ABC</b>
III. 2249W	(R147 × R148) (H21 × 33-16)	.4C, 6C
III. 6016	(R78 × K4) (R84 × 38-11)	3D, 6C, <b>10B</b>
III. 6021	(R75 × R76) (R84 × K4)	.2C, 3D, 4C, 6C, <b>8ABC, 10B, 12B, 14C, 15ABCD</b>
III. 6052	(R78 × 38-11) (R84 × K4)	.2C, 3D, 4C, 6C, <b>8ABC, 10B, 14C, 15ABCD</b>
III. 6062	(R76 × K4) (R78 × R84)	.3D, 8BC, <b>10B</b>
III. 6075	(R75 × R83) (R78 × R87)	<b>10B</b>
III. 6084	(R78 × R117) (R84 × R87)	<b>10B</b>
III. 6106	(R76 × R81) (R78 × R82)	.8C
III. 6107	(R76 × R83) (R78 × R80)	.8C
III. 6108	(R76 × R87) (R120 × R158)	.8C
III. 6109	(R78 × R85) (R92 × R117)	<b>8C</b>
III. 6110	(R78 × R88) (R120 × R121)	.8C
III. 6111	(R79 × R91) (R94 × R118)	<b>8C</b>
III. 6112	(R80 × R85) (R83A × R90)	.8C
III. 6113	(R80 × R88) (R83 × R83A)	.8C
III. 6114	(R76 × R84) (R78 × R87)	.8C
III. 6115	(R83A × R91) (R92 × R118)	<b>8C</b>
III. 6116	(R94 × R117) (R118 × R119)	.8C
Ind. 6225 (III. 1959)	(M14 × W64A) (B14 × A297)	<b>2BC</b>
Ind. 6615	(H49 × H55) (H53 × B14)	13BC
Ind. 6623	(C103 × H53) (WF9 × H52)	.6BC

(Table is concluded on next page)

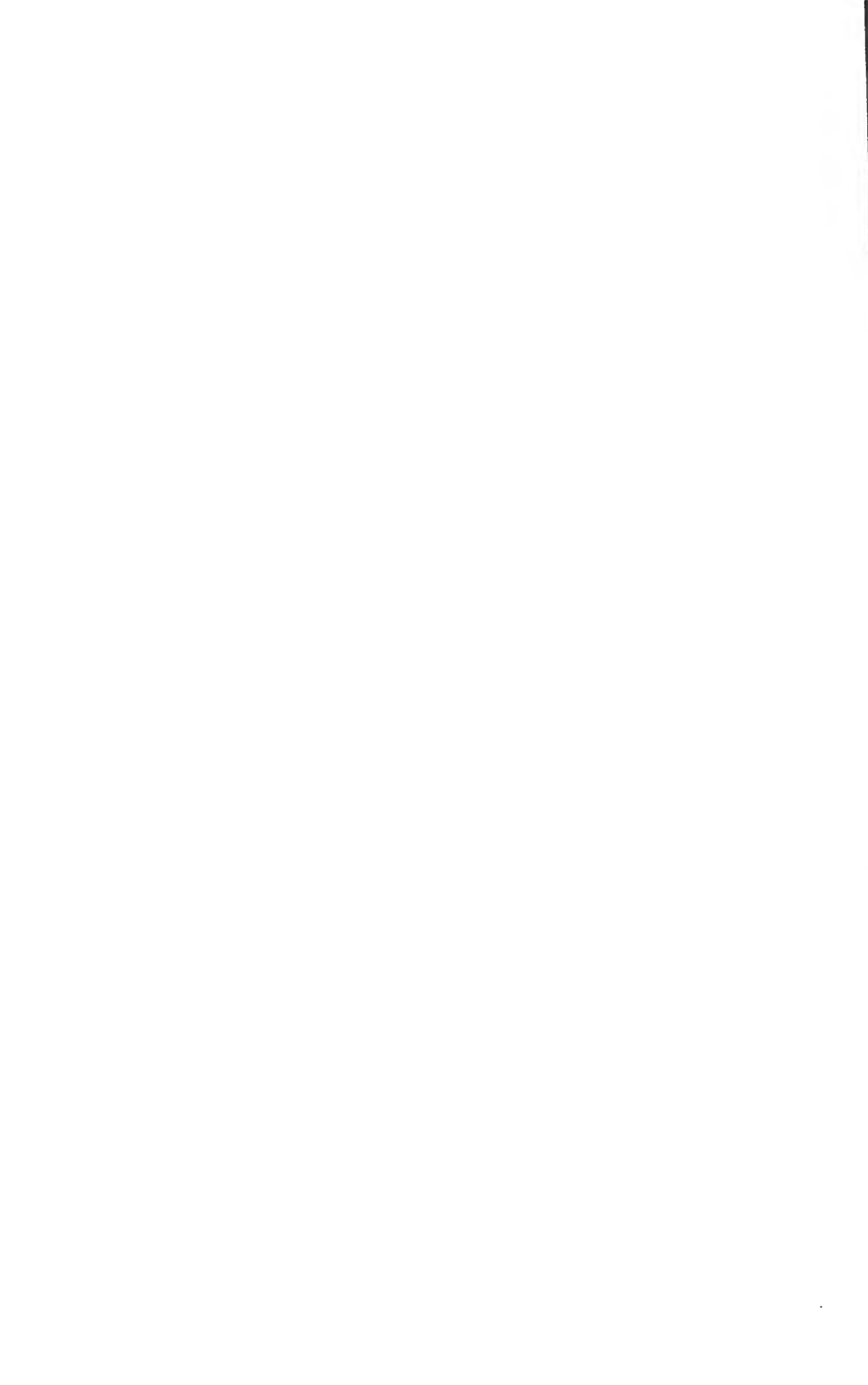
Table 16. — Concluded

Hybrid	Pedigree	Table No.
Ind. 6833	(WF9 × H52) (H54 × H60)	6BC
Ind. 6874	(H49 × H52) (H59 × H60)	13BC
Iowa 4297	(M14 × 187-2) (WF9 × 1.205)	4ABC
Iowa 4880 (Ill. 3019A)	(WF9 × Oh43) (B14 × B38)	4BC
Iowa 4947	(M14 × WF9) (A257 × Oh51A)	2C
Iowa 4989	(WF9 × B14) (B37 × B42)	4C
Iowa 4991	(WF9 × B14) (B42 × Oh43)	4C
Iowa 5023	(WF9 × B14) (B38 × B39)	6C
Iowa 5053	(M14 × WF9) (A257 × W182D)	2C
Iowa 5113	(WF9 × B14) (B39 × B45)	6C
Iowa 5115	(WF9 × B14) (B45 × Cl.31A)	6C
Kan. 2606	(K41 × K723) (K728 × K741)	13C
Kan. 4003	(K711 × K713) (K712 × Oh7B)	13C
Ky. 105	(38-11 × Oh7B) (T8 × Cl.21E)	13C
Ky. 2105	(H21 × 33-16) (Ky209 × Ky211)	13C
Ky. 5708	(Cl.103 × Cl.21E) (Cl.29C × Cl.38B)	13C
Ky. 5712	(33-16 × Cl.64) (K55 × Ky201)	13C
Mich. 53-151	(WF9 × MS209) (MS106 × MS107)	2ABC
Minn. 200 (CB4617)	(M14 × W64A) (B14 × A239)	2C
Minn. 201	(M14 × B14) (WF9 × Oh51A)	2C
Minn. CB4603 (Ill. 3002)	(B14 × A297) (A295 × W64A)	2ABC
Minn. CB4621	(B14 × A239) (A295 × W64A)	2ABC
Mo. 958	(B41 × Oh7A) (Mo3 × Cl.21E)	13BC
Mo. 971	(WF9 × Oh7A) (Mo9248 × T202)	6C
Mo. 4047BW	(H28 × K41) (K6 × K55)	13C
Nebr. 1781C	(M14 × WF9) (N6 × N15)	4C
Nebr. 2248	(Hy2 × WF9) (B40 × N6)	6C
Ohio M15	(A × W23) (Oh26 × Oh51)	2BC
Ohio K24	(WF9 × Oh51A) (Oh33 × Oh40B)	2ABC
ISP 2	(Cl.103 × Oh45) (M14 × WF9)	2ABC
U.S. 13	(Hy × L317) (WF9 × 38-11)	3D, 6ABC, 8ABC, 9C, 10B, 13ABC, 14C, 15ACD
U.S. 523W	(K55 × K64) (Ky27 × Ky49)	13ABC
U.S. 619W	(K55 × Cl.64) (Ky27 × Ky49)	13BC
U.S. 632	(Cl.3A × Cl.27) (Cl.42A × Cl.21E)	13C
A 101	(Hy2 × Oh7) (88-4A × SS101)	6BC
A 102	(Hy2 × Oh7) (128-4A × SS101)	6BC
N7000	(B2895S × B49S) (K4-Ky36-11 × B489S)	13C
N7001	(B2895S × B278S) (B1138T × B670T)	13C
N7002		13C
N7003	(B2895S × B2778S) (B489S × B670T)	13C

















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