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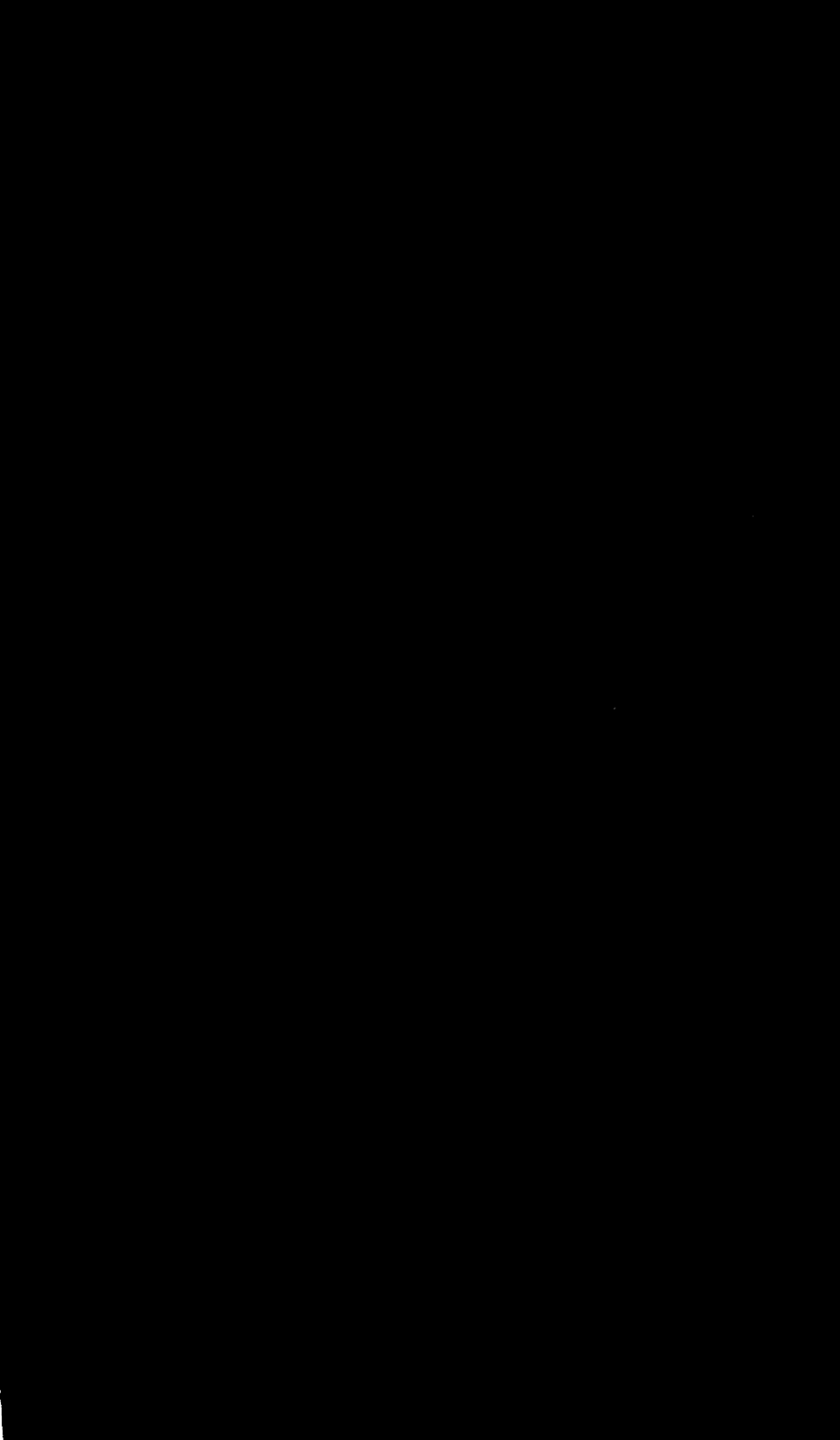
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ILLINOIS CORN PERFORMANCE TESTS . . . *Results for 1935*



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In cooperation with the Division of Cereal Crops and Diseases, Bureau of Plant Industry,
U. S. Department of Agriculture, and the Illinois State Natural History Survey

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Illinois Corn Performance Tests

Results for 1935

By G. H. DUNGAN, J. R. HOLBERT, W. J. MUMM, J. H. BIGGER,
and A. L. LANG¹

BBETTER STRAINS of corn are needed in all sections of Illinois—strains that not only are more resistant to lodging and capable of higher yields, but are of better quality, more resistant to disease, drouth, cold, and insect pests, and are capable of using most advantageously the available supplies of plant nutrients in the soil. Workers interested in these different phases of corn improvement are cooperating in the development and testing of many hybrids and in the distribution of seed of these hybrids and their parent strains that are best adapted to the varying conditions obtaining in the different sections of the state.

The performance tests reported herein are part of a coordinated corn-improvement program conducted by the Illinois Agricultural Experiment Station in cooperation with the Division of Cereal Crops and Diseases, Bureau of Plant Industry, U. S. Department of Agriculture, and the Illinois State Natural History Survey. The present report is the second to be published, the results of the 1934 tests having been reported in Bulletin 411 of this Station.

SCOPE OF THE TESTS

Two hundred seventy-four different kinds of corn were tested on fifteen fields in 1935. Of these, 46 were open-pollinated varieties, 26 were composite samples made by mixing equal quantities of seed collected from several farmers in the immediate neighborhood of the testing field, and 202 were hybrids. The hybrid entries were predominantly double crosses but a few three-way crosses and top crosses were also included.

In the accompanying tables these entries are grouped into two general classes designated as "Regular" and "Experimental." The

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regular entries comprize those that may be considered as being in commercial production, 100 bushels or more of seed being available for planting in 1936 or having been available in that amount in previous years. The composite samples also were placed in the regular group, since the varieties represented in these seed mixtures were being grown commercially.

In the experimental group are included those hybrids of which only small amounts of seed are available and which, for this reason, are not available for commercial planting.

The composite samples of open-pollinated corn were considered representative of the general level of the corn ordinarily grown in the community. For the most part these samples were furnished by the agricultural department of the local high school, 24 half-pint samples of untreated shelled corn being taken from different lots of seed in the neighborhood.

At least five of the best locally adapted open-pollinated varieties were included in each field except at Dundee, where there were only four open-pollinated entries. The performance of these entries furnishes a standard for evaluating that of the hybrids.

A list of the various entries and the names of those who contributed seed for them is given on pages 339 and 340.

LOCATION OF FIELDS AND SELECTION OF SOIL TYPES

Illinois extends so far north and south that it cuts across corn-growing areas having many varying characteristics. In selecting the locations for the testing fields the aim was therefore to include areas representing in a broad way the different conditions of soil and climate existing in the various sections of the state. No conscious effort was made to choose especially productive fields for these tests, but in selecting readily accessible places and good, cooperatively-minded farmers, some fields having a high productivity level were obtained.

The accompanying map (Fig. 1) shows the location of the testing fields. Some general information about these fields is given in Table 1.

In locating the test fields for 1935 an attempt was made to select soil types that occur extensively in the regions in which the tests were being made.¹ Furthermore care was used in selecting the testing area within each field to obtain as much uniformity as possible with regard

¹Herman Wascher, Assistant Chief, Soil Survey, helped to locate the fields with respect to character of soil.

to soil type and drainage conditions. A relatively smooth portion of the field, nearly level or at most only gently sloping, was chosen in order to avoid poorly drained or eroded spots.

Twelve of the fifteen grain testing fields were on soils having a dark-colored surface horizon. Of the other three fields, two (Edgewood and Alhambra) were on claypan soils having a surface that is considered relatively dark colored for the particular region in which



FIG. 1.—LOCATION OF 1935 TESTING FIELDS

each occurs, but the results obtained should hold true for the other claypan soils in these regions. At Alhambra the tests were located on the permanent University crop experiment field, which is mapped as Putnam silt loam. "Slick spots" are numerous on this field.

General information on the soil type, drainage characteristics, and soil treatments for each testing field are given in Table 2. Drainage is described as "rapid," "moderate," and "slow." "Moderate" is used to characterize conditions of optimum drainage, that is, when the

TABLE 1.—GENERAL INFORMATION: ILLINOIS COOPERATIVE CORN PERFORMANCE TESTS, 1935

Location of field	County	Cooperator	Number of entries in test	Date planted	Date harvested	Average yield, all entries	
						Total	Sound
<i>Grain tests</i>							
Dundee.....	Kane.....	M. G. Clark.....	24	June 1	Nov. 12	bu.	bu.
Stockton.....	Jo Daviess.....	Homer Curtiss.....	55	May 14	Nov. 19	44.1	43.1
Rochelle.....	Ogle.....	G. A. Lazier and Son.....	49	May 11	Nov. 20	87.1	80.9
Plainfield.....	Will.....	William Webb and Son.....	52	May 21	Nov. 21	80.4	78.4
Cambridge.....	Henry.....	L. L. Angevine.....	60	May 23	Nov. 13	86.1	84.0
Granville.....	Putnam.....	Benard Moews.....	59	May 17	Nov. 14	102.2	98.9
Dwight.....	Livingston.....	John Hahn.....	60	May 20	Nov. 5	83.9	82.1
Adair.....	McDonough.....	Harvey Herndon.....	76	June 4	Nov. 25	104.0	100.8
Bellflower.....	McLean.....	Chris Warsaw and Sons.....	74	May 30	Nov. 27	83.9	82.3
Armstrong.....	Vermilion.....	James Dewey.....	75	June 3	Nov. 29	73.8	72.1
Winchester.....	Scott.....	Ed. Wilson.....	43	June 3	Nov. 15	96.4	93.9
Sullivan.....	Moultrie.....	Charles Shuman.....	43	May 31	Nov. 22	71.6	70.5
Alhambra.....	Madison.....	Illinois Station, Agronomy.....	42	June 7	Dec. 3	52.7	49.7
Edgewood.....	Effingham.....	F. V. Wilson and Son.....	27	June 4	Nov. 6	52.8	49.5
Albion.....	Edwards.....	Lorin Jack and Son.....	31	June 6	Nov. 21	48.2	47.6
				June 6	Nov. 21	51.1	49.0
<i>Silage tests</i>							
Algonquin.....	McHenry.....	Anton and Harold Suchy.....	24	June 1	Sept. 24	tons	tons
Urbana.....	Champaign.....	Illinois Station, Dairy.....	17	May 8-15	Sept. 17-24	2.83	.....
						4.43	.....
<i>Soil-adaptation tests</i>							
Sibley.....	Ford.....	Sibley Estate, Farm 45.....	20	May 21	Nov. 5	bu.	bu.
Sibley.....	Ford.....	Sibley Estate, Farm 92.....	20	May 31	Nov. 6	81.3	79.6
Urbana.....	Champaign.....	Illinois Station, S.W. rotation.....	18	May 26	Nov. 26	48.2	46.0
Urbana.....	Champaign.....	Illinois Station, S.C. rotation.....	18	May 30	Nov. 27	94.5	93.4
						81.1	80.1

TABLE 2.—SOIL CHARACTERISTICS OF GRAIN TESTING FIELDS, ILLINOIS CORN PERFORMANCE TESTS

Surface drainage Underdrainage	Surface characteristics Subsoil characteristics	Acidity Phosphorus	Previous crop and treatment
Northeastern			
<i>Dundee—Miami silt loam (24)</i>			
Moderate	Yellowish gray silt loam	Medium	Barley, manured
Moderate	Medium-plastic silty clay loam	Low	
Northern			
<i>Stockton—Tama silt loam (36)</i>			
Rapid	Light brown silt loam	None	Alfalfa limed, good rotation
Moderate	Slightly plastic clayey silt loam	Medium+	
<i>Rochelle—Muscatine silt loam (41)</i>			
Moderate	Brown silt loam	Strong	Soybeans, manured
Moderate	Medium-plastic silty clay loam	Low	
<i>Plainfield—Brenton silt loam (149)</i>			
Moderate to slow	Brown silt loam	Medium	Small grain, good rotation
Moderate	Medium-plastic silty clay loam	Low	
North-central			
<i>Cambridge—Muscatine silt loam (41)</i>			
Moderate	Brown silt loam	Medium	Clover, timothy pasture
Moderate	Medium-plastic silty clay loam	Low	
<i>Granville—Muscatine silt loam (41)</i>			
Moderate	Dark brown silt loam	Slight	Good rotation
Moderate	Medium-plastic silty clay loam	Low	
<i>Dwight—Brenton silt loam (149)</i>			
Moderate to slow	Brown silt loam	None	Soybeans, heavily manured
Moderate	Medium-plastic silty clay loam	Low	
Central			
<i>Adair—Muscatine silt loam (41)</i>			
Moderate to rapid	Brown to light brown silt loam	Slight	Alfalfa sod
Moderate	Slightly plastic silty clay loam	Low	
<i>Bellflower—Drummer clay loam (152)</i>			
Moderate to slow	Brown to black silty clay loam	Medium	Corn, soybeans
Moderate	Medium-plastic silty clay loam	Low	
<i>Armstrong—Elliott silt loam (146)</i>			
Moderate	Brown silt loam	None	Small grain
Slow	Medium-plastic clay loam	High	

(Table is concluded on next page)

TABLE 2.—SOIL CHARACTERISTICS OF GRAIN TESTING FIELDS, *concluded*

Surface drainage Underdrainage	Surface characteristics Subsoil characteristics	Acidity Phosphorus	Previous crop and treatment
South-central			
<i>Winchester—Littleton silt loam, terrace (81)</i>			
Moderate to slow	Brown silt loam	.....	Corn
Moderate	Medium-plastic silty clay loam	.....
<i>Sullivan—Floyd silt loam (154)</i>			
Moderate	Brown silt loam	.....	Soybeans
Moderate	Medium-plastic silty clay loam	.....
Southern			
<i>Alhambra—Putnam silt loam, slick spots (112)</i>			
Slow	Brownish gray silt loam, numerous gray spots	None	Good rotation, limestone, phosphate
Very slow	Plastic clay loam	High	
<i>Edgewood—Cisne silt loam, deep phase (166)</i>			
Moderate to slow	Gray silt loam	None	Manure
Slow	Medium-plastic clay loam	Low	
Southeastern			
<i>Albion—Bonpas silty clay loam, terrace (126)</i>			
Moderate to slow	Black silty clay loam	None	Sweet clover
Moderate	Medium-plastic silty clay loam	.....

slope of the land is such as to furnish satisfactory run-off with a minimum of erosion. Moderate underdrainage indicates relatively free movement of excess ground water to tile but retention of sufficient moisture for normal plant growth. "Rapid" surface drainage indicates a tendency to erode, while "slow" indicates slow surface movement, which condition, however, may not necessarily be harmful if underdrainage is good and tile have been provided. Rapid underdrainage would indicate the existence of a drouthy condition, while slow underdrainage indicates that the subsoil is sufficiently impervious to the movement of moisture to be harmful.

SEASONAL CONDITIONS

The growing season of 1935 was characterized by extremely unfavorable weather conditions in both spring and fall. Thruout most of the state corn planting was very much delayed by a cold, wet period lasting from the middle of April until almost the first of June, altho in the northern and northeastern sections of the state this difficulty was

not serious. The planting dates recorded in Table 1 reflect the influence of the late spring.

After planting, growing conditions were generally favorable. A period of scant rainfall occurred during July and August, but there was apparently enough soil moisture for vigorous development of the plants. On September 28 the minimum temperature in central Illinois was 32° F. Another cool period occurred during the first week in October. On October 4 the minimum was 25° F. On October 6 it was 24° F. This freezing stopped the development of most of the varieties and hybrids and materially shortened the growing season.

Seasonable weather followed the cold period, but November and December were wet and cold. Harvesting was seriously interfered with, and a poor quality of grain resulted wherever corn was lodged.

Altho the moisture content of the corn was high during the autumn, and many of the ears in the central and southern sections of the state were on the ground as a result of severe lodging, the amount of corn damaged by ear rots was much below normal. The most injury occurred in the northern section.

INSECT PROBLEMS

The chinch bug, which so reduced corn yields in 1934, was checked by the unusual seasonal conditions of April, May, and June, 1935, and did not become a serious handicap to corn production. The same seasonal conditions were, however, favorable to the development of another insect pest, the southern corn rootworm, *Diabrotica duodecimpunctata* Fab. This insect is usually abundant during wet seasons and the years following wet seasons. It was abundant at Cambridge and in the entire central, south-central, and southern sections of the state. In these fields the lodging which occurred was largely caused by rootworm injury, altho some of it was due to stalk breaking.

The southern corn rootworm hibernates as an adult and emerges during April and May to deposit its eggs in fields where a crop is growing. The crop may be grass, clover, alfalfa, sweet clover, a weed patch, or early corn. Wet fields or wet spots in fields are preferred. When fields where eggs have been deposited are plowed up and corn planted within a week or two, the larvae attack the small corn plants, eating on the roots and base of the stalk and often burrowing into the heart and killing the growing point. At this stage the rootworm larva is commonly known as the "budworm" and may be responsible for killing much corn in a field. Feeding on the corn roots continues until

the middle of July. This later feeding cuts off much of the root system and opens the way for the entrance of root rot organisms which complete the killing of the root in disease-susceptible varieties or hybrids. During August affected plants will lodge badly.

The southern corn rootworm is not controlled by crop rotation nor by generally accepted soil-improvement practices. It may be partially controlled by fall or early spring plowing, followed by frequent cultivation and delayed planting. In 1935 many hybrids proved resistant to the attack of this insect.

Many hybrids were also both resistant to rootworm and high yielding. Illinois Hybrids 360 and 960, for example, were resistant to lodging and produced large yields of sound corn both in the central and in the north-central sections of the state. Furthermore, the 1935 results taken in conjunction with the 1934 records¹ reveal that certain hybrids, such as Illinois Hybrid 172, not only were high yielding and resistant to rootworms but also resistant to chinch bugs. Certain others, such as Illinois Hybrid 391, were high yielding and resistant to chinch bugs but were susceptible to lodging following rootworm attack.

Thus these corn performance tests are demonstrating, among other things, the most desirable strains of corn to use where certain insects must be coped with.

EXPERIMENTAL METHODS

The methods of conducting the 1935 tests were similar to those used in 1934, but the method of expressing the relative performance rating differs somewhat from that of the previous year, being somewhat simpler. The planting and rating methods are described below.

Method of Planting

In order that the trials might be carried on under actual farm conditions, the test plots were located within a larger cornfield. The test corn was planted by hand on the day the rest of the field was planted. The rows were joined with those of the surrounding corn so that the test plots could be cultivated along with the rest of the field.

On most fields each entry (variety or hybrid) occupied 10 plots, each plot being 12 hills long and 2 rows wide. The planting arrangement shown in Fig. 2 is typical of that used in the tests where there were 10 series of plots. Each entry occurred once in each series, with the exception of a few that were planted for a preliminary test and

¹Reported in Bulletin 411 of this Station.

appeared only once in each alternate series. In order to prevent the possibility of all the replications of an entry falling toward one side of the test field, the field was divided crosswise into 10 equal divisions, not shown in the diagram, and each entry appeared once in each of these divisions. Plot 27 has been blackened to show how, by this plan, the 10 replications of a single entry were distributed over the field and occurred also between different entries in the different replications.

Measuring Performance of Entries

Departing somewhat from the method followed in 1934, the entries were rated in 1935 according to two measures of performance—lodging resistance (ability to stand up) and yield of sound corn.

Lodging Resistance.—Lodging resistance was measured in the following way. Just before harvest each plot on the field was examined and the percentage of erect plants estimated. This method did not separate lodging due to broken stalks from that due to weak roots. Stalks broken above the ears but otherwise erect were considered as erect. The percentage of erect plants for a given entry was then computed from the estimates of all the replications of that entry. The rating on relative lodging resistance is the ratio, expressed as percentage, of the percentage of erect plants for that entry to the average percentage of erect plants for all the entries on the field.

Sound Yield.—In order to get as good a measure as possible of the resistance of the entries to ear rot, the corn in the grain tests was harvested late in the season. The entire yield from one replication, and in some cases from two replications, of each entry was shelled to determine shelling percentage. The corn was usually shelled on the day it was husked. In some cases, however, the ears were too moist to shell at harvest time, and these were dried with forced heated air and shelled later. All the shelled corn from a plot was poured thru a divider and a representative sample amounting to one-eighth of the original quantity obtained. This sample was divided into two equal lots, one of which was used for a moisture test, and the other dried and reserved for a determination of damaged corn.

Most of the moisture determinations were made with a Tag-Heppenstall moisture meter within a few days after the samples were taken. The corn from a few fields was too high in moisture to be tested by this apparatus. When this occurred the moisture was determined by drying in an electric oven at 100° C. for 48 hours.

The samples taken for determination of damaged corn were stored for a time in a heated dryer. The percentage of damaged kernels,

by weight, was determined in a 200-gram sample of the grain, using the methods accepted for the determination of the Federal Grain Grades.¹

Data obtained over a period of years indicate that this method of determining the percentage of rotted grain and commercially sound grain gives more accurate and dependable results than ear counts. These data and a fuller description of the method have been published in a paper by Hoppe and Holbert.²

The acre-yield of sound corn was computed from the total acre-yield and the percentage of sound corn.

The rating on sound yield is the ratio, expressed as percentage, of the yield of sound corn for that entry to the average yield of sound corn for all the entries on the field.

General Performance Rating.—In computing the general performance rating of an entry, the ratings for lodging resistance and sound corn were averaged, but the sound-corn rating was given three times the weight of the rating on lodging resistance, since differences in yield are more important than differences in lodging resistance.

RESULTS OF PERFORMANCE TESTS

In interpreting the results of tests such as these, one must keep in mind that a difference of one or two bushels in one year's yield of a given entry is not enough to insure that the entry will give consistently higher yields than another. This is indicated by the varying results from the different fields in a given section—a given entry will usually shift its rank to some extent, altho if high in one test it will probably be high in the other tests also, and the same holds true for the low-yielding entries. The statistical method used in analyzing the data for these tests (analysis of variance) indicates, however, that an entry which yields 5 bushels more than another is almost certainly superior to the other.

However, no matter how carefully a performance test is conducted, the results should be regarded as relative and not absolute. Just because an entry is not at the top in performance every year is no indication that it is not worth growing. The entries most likely to be satisfactory for commercial production are those that give consistently

¹Most of these separations were made under the supervision of P. E. Hoppe, Plant Pathologist, U. S. Department of Agriculture, Madison, Wisconsin.

²HOPPE, P. E., and HOLBERT, J. R. Methods used in the determination of relative amounts of ear rot in dent corn. Jour. Amer. Soc. Agron. **28**, 810-819. 1936.

good performance with respect to yield and grain and stalk quality over a period of years. Many of the 1935 entries were enough higher than the average to make them worth growing even tho they were not at the top in performance rating.

RESULTS OF GRAIN TESTS

(Tables 3 to 10, pages 296-309)

Data on total yield of grain, sound corn, damaged corn, moisture in corn at harvest, and percentage of erect plants, together with performance ratings, are summarized in Tables 3 to 9, starting with the tests made in northeastern Illinois and moving south. More detailed data by individual fields, where more than one field was included in an area, are given in the Appendix, Tables 19 to 31.

A good standard with which to measure the performance of hybrid corn is the performance of adapted open-pollinated varieties commonly grown in the community. Data of this kind are summarized in Table 10, where the five highest hybrids on the fifteen fields are shown in comparison with the five best open-pollinated varieties.

In average yield of sound corn the five best hybrids exceeded the five best open-pollinated varieties by the following amounts per acre: 12.7 bushels in the northeast section; 17.6 in the northern section; 20.3 in the north-central section; 18.2 in the central section; 12.0 in the south-central section; 6.9 in the southern section; and 6.0 bushels in the southeastern section.

Thus while the best hybrids showed the greatest superiority in the north-central and central sections, in all sections they exceeded the yield of the adapted open-pollinated varieties sufficiently to indicate their possibilities. The best hybrids on the fifteen fields averaged 15 bushels of sound corn better than the adapted open-pollinated entries, and their general performance rating was greater by 24.3 points.

RESULTS OF SOIL-ADAPTATION TESTS

(Tables 11 and 12, pages 310-313)

Some of the better hybrids and open-pollinated varieties included in the regular performance tests in 1935 were tried out also on soils of different corn-producing capacities. The differences in the productivity of the plots was due either to characteristics inherent in the soil itself or to farming practices or to both.

Tests were made at Sibley on Elliott silt loam, a relatively poor corn soil, and at Urbana on Muscatine silt loam, a relatively good corn soil. At each location three fields were selected where previous

corn records indicated comparatively low, medium, and high productivity. The data from only the high and low fields at each location are reported here, however, because the intermediate level was very near the high level in performance.

In the Sibley test (Table 11) the high level of productivity is represented by Farm 45 and the lower level by Farm 92. The area selected for the test on Farm 92 was higher, more eroded, and a much poorer grade of Elliott silt loam than that selected on Farm 45. The open-pollinated corn on Farm 92 yielded an average of 45.7 bushels of sound corn an acre. The average yield of all entries, including 17 hybrids and 3 open-pollinated varieties, was only 46 bushels. In rating, as well as in yield of sound corn, the open-pollinated varieties ranked well among the hybrids. The highest yielding hybrid was only 6.2 bushels higher than a composite of open-pollinated corn produced by farmers on the Sibley Estate. Because of a favorable season the average yield of this area was much higher than would normally be expected.

On Farm 45 the total average yield for all the entries was 7.4 bushels more sound corn to the acre than the average yield of the open-pollinated entries. The best hybrid yielded 16.1 bushels more than the best open-pollinated variety.

The two areas selected for the Urbana tests (Table 12) are different in productivity because of the long-continued use of rotations which differ in their influence on production. Corn, oats, clover, and wheat, with a clover catch crop in the wheat, make up the Southwest rotation. Corn, corn, corn, and soybeans constitute the South-Central rotation. More limestone has been applied to the Southwest rotation; otherwise the supplementary treatments on these two areas have been very similar.

In the South-Central rotation the performances of the entries were very similar to those on Farm 45 at Sibley. The open-pollinated varieties averaged 68 bushels of sound corn, or 12.1 bushels less than the average of all entries.

In the Southwest rotation the open-pollinated varieties yielded an average of 76 bushels, or 17.4 bushels less than the average of all entries; the best hybrid yielded 28 bushels more than the best open-pollinated entry. On the highly fertile land of this rotation area the lowest hybrid yield of sound corn was 6.0 bushels more than the best open-pollinated yield; whereas on the poorer soil of Farm 92 at Sibley the lowest hybrid yield was 13.7 bushels an acre less than the best open-pollinated yield.

(Further discussion of silage tests will be found on page 314)

TABLE 3.—NORTHEASTERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS AT DUNDEE, 1935

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating ^c
		Total	Sound				Lodging resistance ^a	Sound yield ^b	
Regular division—entries in commercial production									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
1	DeKalb Hybrid 3A.....	57.5	56.8	1.22	34.1	85.0	109.4	131.5	126.0
2	Webb Will County Favorite.....	52.3	51.1	2.29	36.7	45.0	57.9	118.3	103.2
3	Illinois Hybrid 368.....	43.3	40.5	6.47	33.8	80.0	103.0	93.7	96.0
4	Gunn Western Plowman.....	41.7	41.2	1.20	32.0	66.7	85.9	95.4	93.0
	● Average of 4 best open-pollinated var.	41.6	40.9	1.68	31.2	63.0	81.1	94.6	91.3
5	Eckhardt Golden King.....	37.0	36.3	1.89	25.1	68.3	87.9	84.0	85.0
6	Greenlee Yellow Dent.....	35.4	34.9	1.41	30.9	72.0	92.7	80.8	83.8
	Average of division.....	44.5	43.5	2.25	32.1	69.5	89.5	100.6	97.8

TABLE 3.—*Concluded*

Experimental division—entries <i>not</i> in commercial production											
1	Wisconsin Hybrid 11.....	54.7	54.4	.55	29.1	93.3	120.1	125.9	124.5		
2	Wisconsin Hybrid 570.....	56.9	56.3	1.05	29.2	75.0	96.5	130.3	121.9		
3	Wisconsin Hybrid 9.....	51.7	51.0	1.35	28.3	83.3	107.2	118.0	115.3		
4	Illinois Hybrid 746.....	50.7	49.5	2.37	31.3	87.5	112.6	114.6	114.1		
5	Wisconsin Hybrid 10.....	51.9	50.9	1.93	27.7	75.0	96.5	112.5	112.5		
6	Wisconsin Hybrid 525.....	46.0	45.7	.65	23.2	90.0	115.8	105.9	108.4		
7	DeKalb Hybrid 84.....	46.9	46.3	1.28	24.0	80.0	103.0	107.2	106.2		
8	DeKalb Hybrid 93.....	49.5	47.5	4.04	32.5	70.0	90.1	109.9	105.0		
9	DeKalb Hybrid 113.....	42.9	42.5	.93	21.2	92.5	119.1	98.4	103.0		
10	Illinois Hybrid 766.....	43.2	41.5	3.94	36.6	92.5	119.1	96.1	101.9		
11	Wisconsin Hybrid 12.....	44.0	43.6	.91	28.5	76.7	98.7	100.9	100.4		
12	DeKalb Hybrid 38.....	39.3	39.0	.76	38.3	90.0	115.8	90.3	96.7		
13	DeKalb Hybrid 81.....	45.1	44.0	2.44	31.0	60.0	77.2	101.8	95.7		
14	Wisconsin Hybrid 531.....	40.2	40.1	.25	26.0	70.0	90.1	92.8	92.1		
15	Illinois Hybrid 44.....	37.5	35.5	5.33	36.6	85.0	109.4	82.2	89.0		
16	DeKalb Hybrid 210.....	35.3	33.9	3.97	31.8	85.0	109.4	78.5	86.2		
17	Illinois Hybrid 29.....	35.1	33.2	5.41	36.6	81.7	105.2	76.8	83.9		
18	DeKalb Hybrid 372.....	20.4	20.1	1.47	36.6	60.0	77.2	46.5	54.2		
	Average of division.....	44.0	43.0	2.27	30.5	80.4	103.5	99.7	100.6		
	Average of all entries.....	44.1	43.1	2.27	30.9	77.7	.....	.....	.....

*The performance rating for lodging resistance is expressed as the ratio of the percentage of erect plants in the entry to the average percentage of erect plants in all entries of the division.

^bThe performance rating for sound-corn yield is expressed as the ratio of the sound-corn yield of the entry to the average sound-corn yield of all entries.

^cGeneral performance rating is an average of lodging resistance (percentage) and sound-corn yield (percentage), with sound-corn yield given three times the weight of lodging resistance.

TABLE 4.—NORTHERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS AT STOCKTON, ROCHELLE, AND PLAINFIELD, 1935
(Average of triplicated entries—for data for individual fields see pages 324 to 326)

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Regular division—entries in commercial production									
1	Illinois Hybrid 366	bu. 95.2	bu. 93.1	perct. 2.21	perct. 22.5	perct. 84.2	perct. 102.2	perct. 113.4	110.6
2	Illinois Hybrid 368	95.6	93.6	2.09	21.7	80.2	97.3	114.0	109.8
3	Illinois Hybrid 172	97.0	92.1	5.05	22.6	84.0	101.9	112.2	109.6
4	Pioneer Hi-Bred 323	95.6	91.3	4.50	21.2	78.3	95.0	111.2	107.2
5	DeKalb Hybrid 3A	87.8	85.9	2.16	21.0	86.3	104.7	104.6	104.6
6	Pioneer Hi-Bred 311	92.3	85.1	7.80	21.0	86.5	105.0	103.7	104.0
7	Iowa Hybrid 931	89.0	86.8	2.47	20.5	78.4	95.1	105.7	103.1
8	Funk Hybrid 215	88.4	83.0	6.11	23.7	84.2	102.2	101.1	101.4
9	Funk Hybrid 214	83.2	79.7	4.21	24.0	85.2	103.4	97.1	98.7
10	Simmons Will County Favorite	84.2	82.6	1.90	21.5	71.9	87.3	100.6	97.3
11	Pioneer Hi-Bred 351	79.7	76.0	4.64	21.2	91.2	110.7	92.6	97.1
12	Webb Will County Favorite	81.8	79.3	3.06	21.8	70.4	85.4	96.6	93.8
13	Eckhardt Western Plowman	80.2	77.2	3.74	21.5	76.0	92.2	94.0	93.6
14	Average of 5 best open-pollinated var.	79.2	76.9	2.90	21.7	73.2	88.8	93.7	92.5
15	Evans Will County Favorite	75.0	72.6	3.20	21.6	74.6	90.5	88.4	88.9
16	Gunn Western Plowman	74.8	72.9	2.54	22.2	72.9	88.5	88.8	88.7
17	Community composite (Semesan Jr.)	75.7	72.5	4.23	22.0	68.9	83.6	88.3	87.1
18	Community composite (Barbak)	73.3	71.2	2.86	21.9	71.3	86.5	86.7	86.7
	Community composite (untreated)	71.6	68.5	4.33	21.9	68.2	82.8	83.4	83.3
	Average of division	84.5	81.3	3.79	21.9	78.5	95.2	99.0	98.1

TABLE 4.—*Concluded*

		Experimental division—entries <i>not</i> in commercial production							
1	*DeKalb Hybrid 93	100.6	98.1	2.49	21.4	75.2	91.3	119.5	112.5
2	*Illinois Hybrid 586	93.9	91.0	3.09	21.7	91.4	110.9	110.8	110.8
3	*Illinois Hybrid 751	93.5	90.4	3.32	23.5	92.3	112.0	110.1	110.6
4	*National Hybrid 9	94.0	90.9	3.30	22.5	83.1	100.8	110.7	108.2
5	*DeKalb Hybrid 97	92.3	89.5	3.03	22.4	86.2	104.6	109.0	107.9
6	*Illinois Hybrid 570	92.2	89.2	3.25	23.5	86.7	105.2	108.6	107.8
7	*DeKalb Hybrid 104	92.1	89.0	3.37	21.7	84.6	102.7	108.4	107.0
8	*Wisconsin Hybrid 4	88.3	86.5	2.04	22.3	89.4	108.5	105.4	106.2
9	*DeKalb Hybrid 119	90.9	88.1	3.08	22.4	82.5	100.1	107.3	105.5
10	*Wisconsin Hybrid 7	89.9	87.0	3.23	22.4	81.7	99.2	106.0	104.3
11	*Pioneer Hi-Bred 439	87.1	84.0	3.56	20.7	88.9	107.9	102.3	103.7
12	*Wisconsin Hybrid 2	85.9	83.2	3.14	21.1	85.2	103.4	101.3	101.8
13	*Pioneer Hi-Bred 2086A	86.5	82.4	4.74	20.6	86.5	105.0	100.4	101.6
14	*Pioneer Hi-Bred 2123	85.5	80.8	5.50	22.0	90.5	109.8	98.4	101.3
15	*DeKalb Hybrid 118	87.2	83.8	3.90	22.6	80.0	97.1	102.1	100.9
16	*Wisconsin Hybrid 5	80.3	79.3	1.25	21.1	93.5	113.5	96.6	100.8
17	*Wisconsin Hybrid 8	84.6	77.9	5.56	23.3	89.3	108.4	94.9	98.3
18	*Ohio Hybrid 4	84.6	81.4	3.78	21.7	77.3	93.8	99.1	97.8
19	*Lowwealth Hybrid B, J	83.9	78.9	5.96	21.9	83.4	101.2	96.1	97.4
20	*Wisconsin Hybrid 3	78.8	77.2	2.03	20.7	87.2	105.8	94.0	97.0
21	*Ohio Hybrid 5	85.5	79.7	6.78	23.0	70.6	85.7	97.1	94.3
21	*Pioneer Hi-Bred 2113	80.0	74.8	6.50	21.5	85.5	103.8	91.1	94.3
22	*Lowwealth Hybrid B, C	84.2	74.1	12.00	23.2	86.8	105.3	90.3	94.1
23	*Ohio Hybrid 3	68.9	64.3	6.68	21.6	86.3	104.7	78.3	84.9
24	*DeKalb Hybrid 410	64.7	63.3	2.16	23.3	84.8	102.9	77.1	83.6
	Average of division	86.2	82.6	4.18	22.1	85.2	103.3	100.6	101.3
	Average of all entries	85.5	82.1	3.98	22.0	82.4	.....	.....	.....

*Average of 13 plots instead of 26.

TABLE 5.—NORTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS AT CAMBRIDGE, GRANVILLE,
AND DWIGHT, 1935
(Average of triplicated entries—for data for individual fields see pages 327 to 329)

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resistance	Sound yield	
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
1	Illinois Hybrid 360.....	109.8	107.9	1.73	21.1	89.3	105.0	114.9	112.4
2	Illinois Hybrid 366.....	106.5	104.1	2.25	20.2	98.7	116.1	110.8	112.1
3	Illinois Hybrid 364.....	108.5	106.0	2.30	20.3	84.0	99.2	112.8	109.4
4	Illinois Hybrid 360A.....	106.0	103.7	2.17	20.7	89.6	105.3	110.4	109.1
5	Pfister Hybrid 4857.....	105.7	103.4	2.18	19.8	85.4	100.4	110.1	107.7
6	Illinois Hybrid 384.....	100.0	99.1	.90	20.0	92.2	108.4	105.5	106.2
7	Pfister Hybrid 584.....	102.7	100.4	2.24	20.0	82.4	96.8	106.9	104.4
7	Illinois Hybrid 172.....	99.6	97.5	2.11	19.9	90.3	106.1	103.8	104.4
8	Funk Hybrid 220.....	94.9	93.6	1.37	21.1	97.4	114.5	99.6	103.3
9	Iowa Hybrid 939.....	98.0	92.8	5.31	20.6	90.0	105.8	98.8	100.6
10	Morgan-Wallace Hybrid 111.....	95.7	92.1	3.76	19.2	87.9	103.3	98.0	99.4
11	Funk Hybrid 214.....	92.8	91.6	1.29	20.8	89.0	104.6	97.5	99.3
12	Morgan-Wallace Hybrid 105.....	96.2	92.1	4.26	19.1	87.3	102.6	98.0	99.2
13	Funk Hybrid 215.....	92.5	91.0	1.62	20.9	86.4	101.6	96.9	98.1
14	Pioneer Hi-Bred 306.....	99.7	93.9	5.82	20.0	78.1	91.8	100.0	98.0
15	Iowa Hybrid 942.....	98.1	93.0	5.20	19.6	80.3	94.4	99.0	97.9
16	Morgan-Wallace Hybrid 106.....	94.8	90.9	4.11	20.0	84.8	99.7	96.8	97.5
17	Iowa Hybrid 13.....	100.1	92.8	7.29	20.5	79.1	93.0	98.8	97.4
18	Morgan-Wallace Hybrid 104.....	93.3	90.2	3.32	19.5	85.3	100.3	96.0	97.1
18	Funk Hybrid 206.....	91.1	89.2	2.09	21.6	87.8	103.2	95.0	97.1
19	Pioneer Hi-Bred 311A.....	96.5	87.0	9.84	19.4	90.6	106.5	92.6	96.1
20	Hulting Yellow Dent.....	94.7	92.1	2.75	20.5	75.0	88.2	98.0	95.6
21	Funk Hybrid 208.....	91.5	89.8	1.86	21.0	80.9	95.1	95.6	95.5
22	Lowleath Hybrid B.....	94.6	85.6	9.51	21.5	88.5	104.0	91.1	94.3
23	Pioneer Hi-Bred 311.....	90.6	84.3	6.95	19.3	89.9	105.7	89.7	93.7
24	Morgan-Wallace Hybrid 138.....	87.6	83.2	5.02	19.9	87.5	102.8	88.6	92.2
25	Lowleath Hybrid C.....	90.9	83.2	8.47	21.9	85.8	100.8	88.6	91.7
26	McKeighan Yellow Dent.....	89.5	85.3	4.69	22.6	76.7	90.1	90.8	90.6

Regular division—entries in commercial production

TABLE 5.—Concluded

●	Average of 5 best open-pollinated var.	89.7	86.9	3.12	21.2	67.3	79.1	92.5	89.2
27	Original Krug.....	90.7	88.4	2.54	22.1	60.1	70.6	94.1	88.2
28	Roeschley Yellow Dent.....	90.9	87.7	3.52	20.9	58.4	68.6	93.4	87.2
29	Community composite (Semesan Jr.).....	88.1	85.2	3.29	20.8	64.5	75.8	90.7	87.0
30	Queen of the Field.....	82.8	81.1	2.05	20.1	66.1	77.7	86.3	84.2
31	Community composite (untreated).....	84.4	81.6	3.32	21.8	64.5	75.8	86.9	84.1
32	Community composite (Barbak).....	84.5	81.6	3.43	21.4	60.7	71.3	86.9	83.0
	Average of division.....	95.4	91.8	3.77	20.5	82.2	96.6	97.7	97.5
Experimental division—entries <i>not</i> in commercial production									
1	*Illinois Hybrid 960.....	113.7	107.5	5.45	21.5	89.3	105.0	114.4	112.1
2	*Moews Hybrid 32.....	109.6	106.9	2.46	22.0	84.1	98.8	113.8	110.1
3	*Iowa Hybrid 3110.....	107.8	105.4	2.23	20.7	88.3	103.8	112.2	110.1
4	*Illinois Hybrid 936.....	103.1	101.4	1.65	21.4	94.3	110.8	107.9	108.6
5	*Illinois Hybrid 751.....	102.6	101.1	1.46	20.8	94.7	111.3	107.6	108.5
6	*U. S. Hybrid 38.....	104.2	101.9	2.21	21.0	91.8	107.9	108.5	108.4
7	*Moews Hybrid 22.....	105.9	102.6	3.12	21.7	89.1	104.7	109.2	108.1
8	Illinois Hybrid 371.....	105.8	102.6	3.02	20.4	88.8	104.4	109.2	108.0
9	Illinois Hybrid 570.....	103.3	101.7	1.55	20.2	91.0	107.0	108.3	108.0
10	Illinois Hybrid 754.....	99.9	97.8	2.10	21.0	90.7	106.6	104.1	104.7
11	*U. S. Hybrid 44.....	100.9	96.2	4.66	21.9	94.5	111.1	102.4	104.3
12	*Illinois Hybrid 571.....	98.6	97.2	1.42	21.3	90.9	106.8	103.5	104.3
13	*Moews Hybrid 30.....	99.9	98.0	1.90	21.1	86.5	101.7	104.3	103.7
14	*Indiana Hybrid 642.....	98.1	96.0	2.14	19.2	91.5	107.6	102.2	103.6
15	Illinois Hybrid 372.....	97.5	95.7	1.85	20.2	90.1	105.9	101.9	102.9
16	*Pioneer Hi-Bred 3010.....	98.7	94.0	4.76	21.8	92.3	108.5	100.1	102.2
17	*Moews Hybrid 24.....	97.2	95.0	2.26	21.2	87.8	103.2	101.1	101.6
18	*Illinois Hybrid 574.....	101.9	94.7	7.07	21.6	86.7	101.9	100.8	101.1
19	*Indiana Hybrid 620.....	95.5	92.0	3.66	20.4	91.9	108.0	97.9	100.4
20	*DeKalb Hybrid 97.....	91.3	89.9	1.53	20.4	91.4	107.4	95.7	98.6
21	Funk Hybrid 225.....	93.4	90.7	2.89	22.6	80.2	94.3	96.6	96.0
22	Pfister Hybrid 4857 (2d generation).....	86.9	85.1	2.07	20.1	78.1	91.8	90.6	90.9
23	*Pioneer Hi-Bred 2218A.....	88.0	80.2	8.86	21.2	91.1	107.1	85.4	90.8
24	Average of division.....	100.2	97.1	3.09	21.0	89.4	105.0	103.4	103.8
25	Average of all entries.....	97.3	93.9	3.49	20.7	85.1	.....	.....	.....

*Average of 15 plots instead of 30.

TABLE 6.—CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS AT ADAIR, BELFLOWER, AND ARMSTRONG, 1935
(Average of triplicated entries—for data for individual fields see pages 330 to 334)

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Regular division—entries in commercial production									
1	Illinois Hybrid 360	bu. 93.1	bu. 91.9	percl. 1.29	percl. 20.6	percl. 72.8	percl. 108.0	percl. 110.3	109.7
2	Illinois Hybrid 360A	94.4	93.0	1.48	20.7	66.8	99.1	111.6	108.5
3	Illinois Hybrid 384	85.1	84.4	.82	20.2	87.5	129.8	101.3	108.4
4	Pfister Hybrid 4857	89.6	88.7	1.00	20.3	64.7	96.0	106.4	103.8
5	Illinois Hybrid 172	85.4	84.1	1.52	19.6	72.8	108.0	100.9	102.7
6	Pfister Hybrid 584	89.2	87.7	1.68	20.3	61.3	90.9	105.2	101.6
7	Pioneer Hi-Bred 311	82.8	81.0	2.17	18.5	75.8	112.5	97.2	101.0
8	Illinois Hybrid 543	85.0	84.0	1.18	22.4	66.5	98.7	100.8	100.3
9	Funk Hybrid 220L	82.0	80.6	1.71	21.2	73.1	108.5	96.7	99.7
10	Pioneer Hi-Bred 307A	84.1	82.3	2.14	20.6	65.1	96.6	98.8	98.3
11	Funk Hybrid 220	80.7	79.6	1.36	21.8	68.8	102.1	95.5	97.2
12	Pioneer Hi-Bred 306	86.3	83.8	2.90	19.9	57.5	85.3	100.6	96.8
13	Iowa Hybrid 13	87.2	83.1	4.70	21.0	56.6	84.0	99.8	95.9
14	Pioneer Hi-Bred 311A	81.5	78.3	3.93	19.0	67.6	100.3	94.0	95.6
15	Funk Hybrid 206	76.6	75.3	1.70	22.7	67.8	100.6	93.0	93.0
16	Funk Hybrid 208	75.9	74.5	1.84	21.8	60.5	89.8	89.4	89.5
17	McKeighan Yellow Dent	76.1	74.2	2.50	24.2	57.0	84.6	89.0	88.0
18	Original Krug	79.4	78.1	1.64	21.8	42.7	63.4	93.7	86.1
19	Station Yellow Dent	76.0	74.3	2.24	23.0	46.8	69.4	89.2	84.3
20	Average of 5 best open-pollinated var.	75.4	73.4	2.65	23.6	45.1	66.9	88.1	82.8
21	Mountjoy Yellow Dent	75.5	74.1	1.85	23.5	41.8	62.0	88.9	82.2
	Stiegelmeier Yellow Dent	69.9	66.5	4.86	25.4	37.2	55.2	79.8	73.7
	Average of division	82.7	81.0	2.06	21.5	62.4	92.0	97.1	96.0
Experimental division—entries not in commercial production									
1	*U. S. Hybrid 44	96.0	94.9	1.15	21.6	76.0	112.8	113.9	113.6
2	*Illinois Hybrid 729	92.3	91.1	1.30	20.2	83.6	124.0	109.3	113.0
3	*Illinois Hybrid 960	98.2	95.7	2.55	21.7	71.1	105.5	114.8	112.5
4	*Illinois Hybrid 793	92.6	90.4	2.38	22.7	75.8	112.5	108.5	109.5
5	*U. S. Hybrid 57	91.2	89.3	2.08	21.9	73.9	109.6	107.2	107.8
6	*Illinois Hybrid 934	86.7	85.0	1.96	22.1	84.1	124.8	102.0	107.7
7	*Illinois Hybrid 775	84.1	83.1	1.19	20.9	88.2	130.9	99.7	107.5
8	*Pioneer Hi-Bred 2088	88.8	87.3	1.69	19.6	77.3	114.7	104.8	107.3
9	*U. S. Hybrid 38	87.2	85.9	1.49	21.9	80.5	119.4	103.1	107.2
10	Illinois Hybrid 546	88.1	86.1	2.27	22.8	70.4	117.6	103.1	107.2

TABLE 6.—Concluded

11	*Illinois Hybrid 371	87.9	86.8	1.25	20.8	77.0	114.2	104.2	106.7
12	*Iowa Hybrid 3110	93.1	92.3	.86	21.6	63.4	94.1	110.8	106.6
13	*Pioneer Hi-Bred 2111	89.5	86.8	3.02	20.9	75.1	111.4	104.2	106.0
14	*Illinois Hybrid 372	82.4	81.6	.97	19.9	84.9	126.0	97.9	104.9
15	*U. S. Hybrid 33	87.0	85.2	2.07	21.9	75.6	112.2	102.2	104.7
16	*Illinois Hybrid 46	83.5	81.4	2.51	19.6	83.8	124.3	97.7	104.4
17	*Indiana Hybrid 634	87.0	85.4	1.84	21.6	73.3	108.8	102.5	104.1
18	Illinois Hybrid 710	91.1	88.7	2.63	24.7	65.3	96.9	106.4	104.0
19	Indiana Hybrid 632	83.8	81.4	2.86	22.0	82.5	122.4	97.7	103.9
20	*Pioneer Hi-Bred 2011	86.8	84.4	2.76	21.4	74.6	110.7	101.3	103.7
20	*Indiana Hybrid 631	86.1	83.9	2.56	22.0	75.8	112.5	100.7	103.7
21	Illinois Hybrid 936	85.2	83.9	1.53	21.6	75.0	111.3	100.7	103.4
22	*Illinois Hybrid 737	82.8	81.5	1.57	21.9	79.6	118.1	97.8	102.9
23	Illinois Hybrid 754	83.8	82.8	1.19	21.7	76.2	113.1	99.4	102.8
24	Funk Hybrid 207	90.0	87.6	2.67	21.8	62.8	93.2	105.2	102.2
25	Indiana Hybrid 643	88.6	86.8	2.03	21.2	62.6	92.9	104.2	101.4
26	*Iowa Hybrid 3065	88.0	86.0	2.27	20.4	61.9	91.8	103.2	100.4
27	Illinois Hybrid 760	86.9	84.6	2.65	22.2	65.1	96.0	101.5	100.3
28	*Pfister Hybrid 3258	91.4	89.5	2.08	22.4	53.0	78.6	107.4	100.2
29	Illinois Hybrid 753	88.7	87.2	1.69	25.1	58.1	86.2	104.6	100.0
30	*Illinois Hybrid 574	88.2	85.4	3.17	22.7	61.7	91.5	102.5	99.8
31	*Iowa Hybrid 3045	89.2	86.3	3.25	23.3	59.1	87.7	103.6	99.6
32	*Pioneer Hi-Bred 2215A	83.5	79.2	5.15	21.0	76.0	112.8	95.0	99.5
33	Illinois Hybrid 508	81.1	79.1	2.47	23.0	72.6	107.7	94.9	98.1
33	Illinois Hybrid 765	81.3	80.3	1.23	21.9	69.6	103.3	96.4	98.1
34	*Illinois Hybrid 39	79.3	78.2	1.39	23.0	74.4	110.4	93.8	98.0
35	*Indiana Hybrid 819	84.0	81.4	3.10	23.5	65.1	96.6	97.7	97.4
36	*Indiana Hybrid 666	84.0	80.4	4.29	22.6	66.0	97.9	96.5	96.9
37	*Ohio Hybrid 8	86.2	84.6	1.86	21.4	55.2	81.9	101.5	96.6
38	*Illinois Hybrid 764	85.1	82.8	2.70	22.7	58.8	87.2	99.4	96.4
39	*Illinois Hybrid 54	80.2	77.8	2.99	22.9	69.6	103.3	93.4	95.9
40	*Ohio Hybrid 6	79.3	77.3	2.52	19.9	69.7	103.4	92.8	95.5
41	Illinois Hybrid 391	85.7	82.4	3.85	24.3	53.4	79.2	98.9	94.0
42	*Illinois Hybrid 579	88.3	84.5	4.30	25.0	47.5	70.5	101.4	93.7
43	*Indiana Hybrid 820	80.8	78.8	2.48	24.2	59.5	88.3	94.6	93.0
44	Funk Hybrid 225	84.4	82.7	2.01	22.2	48.5	72.0	99.2	92.4
45	*Ohio Hybrid 7	82.2	78.5	4.50	22.9	58.2	86.4	94.2	92.3
46	*Illinois Hybrid 539	76.8	74.7	2.73	23.0	59.5	88.3	89.6	89.3
	Average of division	86.4	84.4	2.31	22.2	69.6	103.8	101.3	101.8
	Average of all entries	85.3	83.3	2.34	21.8	67.4	103.8	101.3	101.8

*Average of 14 plots instead of 28.

TABLE 7.—SOUTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS AT WINCHESTER AND SULLIVAN, 1935
(Average of duplicated entries—for data for individual fields see pages 335 to 336)

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Regular division—entries in commercial production									
1	Funk Hybrid 220L.....	bu.	bu.	perct.	perct.	perct.	perct.	perct.	perct.
2	Station Yellow Dent.....	68.9	68.4	.68	20.9	64.0	128.5	113.3	117.1
3	Wilson Yellow Dent.....	61.3	61.0	.49	21.5	44.0	88.4	101.0	97.9
3	Wilson Yellow Dent.....	61.3	60.0	2.12	22.2	42.3	84.9	99.3	95.7
	● Average of 5 best open-pollinated var.	60.6	59.4	1.98	22.5	41.2	82.7	98.0	94.5
4	Canterbury Yellow Dent.....	61.8	60.2	2.59	23.2	37.6	75.5	99.7	93.7
5	Rice Yellow Dent.....	58.6	57.1	2.56	23.3	43.3	86.9	94.5	92.6
5	Waddell Utility Yellow Dent.....	59.8	58.9	1.51	22.5	38.7	77.7	97.5	92.6
6	Waddell Golden Dent.....	56.1	54.9	2.14	23.8	45.0	90.4	90.9	90.8
7	Shuman Golden Beauty.....	56.2	54.9	2.31	21.4	44.6	89.6	90.9	90.6
8	Moore Yellow Dent.....	55.5	53.2	4.14	22.8	48.6	97.6	88.1	90.5
9	Eversole White Dent.....	57.8	56.2	2.77	22.8	33.7	67.7	93.0	86.7
10	Waddell Utility White Dent.....	49.7	45.6	8.25	24.6	31.9	64.1	75.5	72.4
	Average of division.....	58.8	57.3	2.55	22.6	43.1	86.5	94.9	92.8

TABLE 7.—Concluded

		Experimental division—entries <i>not</i> in commercial production							
1	Illinois Hybrid 960.....	80.1	79.7	.50	19.9	73.1	146.8	132.0	135.7
2	Illinois Hybrid 947.....	73.8	72.1	2.30	22.6	62.3	125.1	119.4	120.8
3	Illinois Hybrid 710.....	72.4	71.3	1.52	22.2	63.8	128.1	118.0	120.5
4	Illinois Hybrid 966.....	67.5	65.7	2.67	23.3	77.0	154.6	108.8	120.2
5	Illinois Hybrid 39.....	69.3	67.9	2.02	21.0	71.4	143.4	112.4	120.2
6	Illinois Hybrid 546.....	68.8	67.7	1.60	21.0	68.8	138.2	112.1	118.6
7	Illinois Hybrid 945.....	71.6	70.7	1.26	20.4	56.8	114.1	117.1	116.4
8	Funk Hybrid 207.....	71.1	68.6	3.52	21.8	60.8	122.1	113.6	115.7
9	Illinois Hybrid 559.....	68.0	66.9	1.62	21.1	60.3	121.1	110.8	115.4
10	*Loweth Hybrid CC.....	68.3	67.6	1.02	21.1	57.2	114.9	111.9	112.7
11	Illinois Hybrid 538.....	69.4	68.2	1.73	21.5	54.2	108.8	112.9	111.8
12	Funk Hybrid 225.....	67.6	66.6	1.48	20.8	57.8	116.1	110.3	111.8
13	Illinois Hybrid 54.....	67.1	65.8	1.94	21.4	56.1	112.7	108.9	109.9
14	Illinois Hybrid 508.....	62.8	60.6	3.50	22.5	67.5	135.5	100.3	109.1
15	Illinois Hybrid 51.....	67.8	66.8	1.47	21.4	51.5	103.4	110.6	108.8
16	Funk Hybrid 231.....	66.2	65.7	.76	20.6	49.5	99.4	108.8	106.5
17	Illinois Hybrid 1074.....	61.4	60.3	1.79	21.9	60.3	121.1	99.8	105.1
18	Golden Beauty X 4211.....	67.5	64.8	4.00	22.9	48.7	97.8	107.3	104.9
19	Stiegelmeier Hybrid 3.....	69.0	57.2	2.61	23.8	58.0	116.5	94.7	100.2
20	Missouri Hybrid 51.....	66.0	63.3	4.09	25.2	39.6	79.5	104.8	98.5
21	Kansas Hybrid 3.....	59.9	57.3	4.34	25.2	49.0	98.4	94.9	95.5
22	Kansas Hybrid 5.....	63.0	61.0	3.17	25.4	39.3	78.9	101.0	95.5
23	Missouri Hybrid 11.....	60.9	57.0	6.40	24.4	40.2	80.7	94.4	91.0
24	Missouri Hybrid 19.....	57.2	54.4	4.90	24.5	41.0	82.3	90.1	88.2
25	Kansas Hybrid 6.....	59.3	52.9	10.79	25.4	38.8	77.9	87.6	85.2
26	Kansas Hybrid 4.....	56.0	54.1	3.39	22.9	34.8	69.9	84.7	84.5
27	*Wood Hybrid Medium Yellow Dent..	52.7	51.6	2.09	22.4	40.8	81.9	85.4	84.5
28	*Waddell Utility White Dent X Indiana 33	55.6	52.7	5.22	24.0	36.7	73.7	87.3	83.9
29	*Wood Hybrid Early White Dent.....	53.5	46.6	12.90	28.0	32.8	65.9	77.2	74.4
30	*Missouri Hybrid 8.....	51.3	46.8	8.77	26.8	28.4	57.0	77.5	72.4
31	*Wood Hybrid Medium White Dent..	37.9	32.3	4.78	29.3	39.5	79.3	53.5	60.0
	Average of division.....	64.0	61.4	4.06	23.1	52.1	104.7	101.7	102.5
	Average of all entries.....	62.6	60.4	3.51	22.9	49.8	....	....	....

*Average of 5 plots instead of 10 at Winchester, and 4 instead of 8 at Sullivan.

TABLE 8.—SOUTHERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS AT ALIAMBRA AND EDGEWOOD, 1935
(Average of duplicated entries—for data for individual fields see pages 337 to 338)

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Regular division—entries in commercial production									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
1	Moore Yellow Dent.....	54.4	52.2	4.04	23.5	47.8	101.7	106.6	105.4
2	Community composite (Semesan Jr.).....	51.5	50.5	1.94	24.5	46.3	98.6	103.1	102.0
3	Waddell Golden Beauty.....	49.5	49.4	.81	25.0	43.8	93.2	100.9	99.0
●	Average of 5 best open-pollinated varieties.....	49.8	48.0	3.61	25.6	41.7	88.7	98.0	95.7
4	Pride of Saline.....	50.3	48.4	3.78	28.3	35.8	76.2	98.9	93.2
5	Community composite (Barbak).....	45.2	43.8	3.10	22.5	45.5	96.8	89.4	91.3
6	Waddell Utility White Dent.....	45.4	44.0	3.08	24.9	43.0	91.5	89.9	90.3
7	Blackhawk.....	47.6	45.8	3.78	26.5	38.0	80.9	93.5	90.3
8	Champion White Pearl.....	48.1	41.6	13.51	25.8	46.5	99.0	84.9	88.4
	Community composite (untreated).....	45.8	41.0	10.48	24.9	40.8	86.8	83.7	84.5
	Average of division.....	48.6	46.3	4.73	25.1	43.1	91.6	94.5	93.8
Experimental division—entries not in commercial production									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>
1	Illinois Hybrid 508.....	53.8	52.7	2.04	21.7	64.8	137.9	107.6	115.2
2	*Champion White Pearl × Indiana 33.....	58.0	53.3	8.10	23.5	57.0	121.3	108.8	111.9
3	*Indiana Hybrid 835.....	54.0	52.4	2.96	20.0	58.0	123.5	107.0	111.1
4	*Champion White Pearl × B 103.....	61.4	58.4	4.89	24.3	39.0	83.0	119.3	110.2
5	*Indiana Hybrid 815.....	53.7	53.1	1.12	28.0	54.0	114.9	108.4	110.0
6	*Missouri Hybrid 19.....	58.3	57.1	2.06	27.1	40.5	86.2	116.6	109.0
7	Indiana Hybrid 880.....	53.0	52.5	.94	19.3	45.0	95.8	107.2	104.4
8	Indiana Hybrid 823.....	47.9	47.2	1.46	23.0	60.0	127.7	96.4	104.2
9	*Champion White Pearl × Pride of Saline 47.....	47.1	45.8	2.76	20.9	56.0	119.2	93.5	99.9
10	Illinois Hybrid 54.....	46.2	45.9	.65	22.7	54.8	116.6	93.7	99.4
11	*Champion White Pearl × Pride of Saline 29.....	55.0	49.5	10.00	26.1	34.0	72.4	101.1	93.9
12	*Golden Beauty × 5677.....	46.2	43.7	5.41	23.7	36.0	76.6	89.2	86.1
	Average of division.....	52.9	51.0	3.59	23.4	49.9	106.3	104.1	104.6
	Average of all entries.....	51.1	49.0	4.11	24.1	47.0	.....	.....	.....

*Average of 10 plots instead of 20.

TABLE 9.—SOUTHEASTERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS AT ALBION, 1935

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Regular division—entries in commercial production									
1	Wilson Yellow Dent	bu.	bu.	perct.	perct.	perct.	perct.	perct.	perct.
2	Pride of Saline	58.0	57.4	1.03	17.8	77.0	91.7	104.0	100.9
	Average of 5 best open-pollinated var.	59.0	58.1	1.53	18.5	70.0	83.5	105.3	99.9
3	Waddell Golden Beauty	55.4	54.6	1.44	17.8	75.4	89.9	98.9	96.5
4	Waddell Utility White Dent	53.5	52.7	1.50	17.2	80.0	95.4	95.5	95.5
5	Station Yellow Dent	55.2	53.5	3.08	17.6	71.0	84.7	96.9	93.4
6	Eversole White Dent	51.1	51.1	0	17.8	79.0	94.2	92.6	93.0
7	St. Charles White	52.8	52.3	.95	17.4	73.0	85.9	94.8	92.5
8	Kiefer Learning	51.8	47.1	9.07	19.5	79.5	94.7	85.3	87.7
9	*Long John	51.8	45.5	12.16	21.2	81.0	96.6	82.4	85.9
10	Moore Yellow Dent	46.2	43.5	6.95	16.7	62.0	73.9	87.3	83.7
	Average of division	53.1	50.9	5.84	19.0	78.5	93.7	78.8	82.5
				4.14	18.3	75.1	89.4	92.3	91.5

(Table is concluded on next page)

TABLE 9.—*Concluded*

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Experimental division—entries <i>not</i> in commercial production									
1	*Pride of Saline X Indiana 33.....	69.0	68.5	.72	17.4	92.0	109.8	124.1	120.5
2	Illinois Hybrid 940.....	65.9	64.6	1.97	18.4	92.5	110.4	117.1	115.4
3	*Missouri Hybrid 51.....	66.2	65.7	.76	19.6	85.0	100.1	119.0	114.3
4	Illinois Hybrid 508.....	63.5	63.3	.31	17.1	91.0	108.6	114.7	113.2
4	Indiana Hybrid 835.....	64.9	64.4	.77	17.4	86.0	102.6	116.7	113.2
5	Illinois Hybrid 947.....	65.2	63.4	2.76	17.6	83.5	100.0	114.9	111.2
6	Indiana Hybrid 880.....	63.1	60.9	3.49	17.1	90.5	107.1	110.4	109.6
7	*Long John X 4211.....	60.0	59.4	1.00	17.1	92.0	109.8	107.6	108.2
8	*Missouri Hybrid 19.....	62.9	59.1	6.04	20.7	89.0	106.2	107.1	106.9
9	*Missouri Hybrid 11.....	61.8	57.3	7.28	18.5	88.0	105.0	103.8	104.1
10	*Missouri Hybrid 8.....	59.7	57.5	3.69	18.6	85.0	101.4	104.2	103.5
11	Indiana Hybrid 823.....	55.2	54.2	1.81	16.7	96.5	115.2	98.2	102.5
12	Illinois Hybrid 54.....	62.8	55.3	11.94	17.3	91.0	108.6	100.2	102.3
13	*Wood Hybrid Early White Dent.....	58.7	57.3	2.39	19.4	79.0	94.1	103.8	101.4
14	Golden Beauty X 4211.....	58.3	56.8	2.57	17.2	78.5	93.7	102.9	100.6
15	Illinois Hybrid 51.....	56.9	53.6	5.80	18.2	88.0	105.0	97.1	99.0
15	*Moore Yellow Dent X Indiana B2.....	53.8	51.4	4.46	18.4	98.0	116.9	93.1	99.0
16	*Wood Hybrid Medium Yellow Dent.....	52.1	51.2	1.73	17.6	85.0	101.4	92.8	94.9
17	Indiana Hybrid 815.....	47.3	46.7	1.27	17.3	90.0	107.4	84.6	90.3
18	*Golden Beauty X 5677.....	48.6	47.4	2.47	17.6	80.0	95.5	85.9	88.3
19	*Wood Hybrid Medium White Dent.....	47.6	43.5	8.61	21.2	85.0	101.4	78.8	84.4
	Average of division.....	59.2	57.2	3.38	18.1	87.9	104.8	103.7	103.9
	Average of all entries.....	57.2	55.2	3.50	18.2	83.8	.....	.....	.....

*Average of 5 plots instead of 10.

TABLE 10.—HYBRIDS AND OPEN-POLLINATED VARIETIES COMPARED: GENERAL PERFORMANCE RATING AND SOUND YIELD OF FIVE BEST HYBRIDS AND FIVE BEST OPEN-POLLINATED VARIETIES ON THE FIFTEEN ILLINOIS GRAIN TESTING FIELDS, 1935

Field	Sound yield per acre			General performance rating		
	Open-pollinated varieties	Hybrids	Difference in favor of hybrids	Open-pollinated varieties	Hybrids	Difference in favor of hybrids
<i>Northeastern</i>						
Dundee.....	<i>bu.</i> 40.9 ^a	<i>bu.</i> 53.6	<i>bu.</i> 12.7	91.3	120.4	29.1
<i>Northern</i>						
Stockton.....	80.8	93.4	12.6	94.8	115.7	20.9
Rochelle.....	68.8	92.2	23.4	88.4	113.9	25.5
Plainfield.....	81.9	98.7	16.8	96.6	113.0	16.4
Average.....	77.2	94.8	17.6	93.3	114.2	20.9
<i>North-Central</i>						
Cambridge.....	91.0	114.8	23.8	86.7	114.6	27.9
Granville.....	76.7	94.3	17.6	91.5	111.7	20.2
Dwight.....	95.1	114.5	19.4	90.3	111.8	21.5
Average.....	87.6	107.9	20.3	89.5	112.7	23.2
<i>Central</i>						
Adair.....	75.0	90.2	15.2	87.8	112.4	24.6
Bellflower.....	73.4	92.8	19.4	82.8	111.7	28.9
Armstrong.....	85.6	105.6	20.0	84.0	116.9	32.9
Average.....	78.0	96.2	18.2	84.9	113.7	28.8
<i>South-Central</i>						
Winchester.....	68.6	82.3	13.7	94.8	119.4	24.6
Sullivan.....	51.1	61.4	10.3	97.8	136.9	39.1
Average.....	59.9	71.9	12.0	96.3	128.2	31.9
<i>Southern</i>						
Alhambra.....	54.8	60.4	5.6	107.2	121.9	14.7
Edgewood.....	45.9	54.1	8.2	94.4	117.4	23.0
Average.....	50.4	57.3	6.9	100.8	119.7	18.9
<i>Southeastern</i>						
Albion.....	48.0	54.0	6.0	95.7	111.7	16.0
Average of 15 fields.....	69.2	84.2	15.0	92.3	116.6	24.3

^aOnly 4 open-pollinated varieties were tested at Dundee.

TABLE 11.—SOIL-ADAPTATION TEST: SIBLEY, CENTRAL ILLINOIS, PERFORMANCE OF CORN VARIETIES AND HYBRIDS ON ELLIOTT SILT LOAM, A RELATIVELY POOR CORN SOIL

Rank	Entry	Acre-yield		Erect plants	Performance rating for—			General performance rating
		Total	Sound		Lodging resistance	Sound yield	perct.	
Farm 45—soil of higher productivity								
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	Illinois Hybrid 360	89.8	89.4	95	106.3	112.3	110.8	
2	Illinois Hybrid 588	92.5	90.4	90	100.7	113.5	110.3	
3	Illinois Hybrid 573	88.2	87.4	95	106.3	109.8	108.0	
4	Illinois Hybrid 369	85.3	84.2	95	106.3	105.8	105.9	
5	Illinois Hybrid 762	87.1	86.4	86	96.2	108.5	105.4	
6	Illinois Hybrid 172	83.1	81.5	94	105.1	102.4	103.1	
7	Illinois Hybrid 391	84.6	83.7	84	94.0	105.1	102.3	
8	Illinois Hybrid 384	81.4	79.6	96	107.4	100.0	101.9	
9	Illinois Hybrid 737	82.0	79.4	96	107.4	99.7	101.6	
10	Illinois Hybrid 546	79.9	77.2	98	109.6	97.0	100.1	
11	Illinois Hybrid 533	81.9	80.7	85	95.1	101.3	99.8	
12	Illinois Hybrid 925	79.1	77.8	94	105.1	97.7	99.6	
13	Illinois Hybrid 710	81.4	79.1	87	97.3	99.3	98.8	
14	Illinois Hybrid 392	78.2	76.3	92	102.9	95.8	97.6	
15	Illinois Hybrid 29	77.3	75.9	90	100.7	95.3	96.7	
16	Illinois Hybrid 538	77.8	76.6	81	90.6	96.2	94.8	
17	Illinois Hybrid 543	75.9	74.4	87	97.3	93.4	94.4	
18	Original Krug	76.2	74.3	79	88.4	93.3	92.1	
19	Station Yellow Dent	73.1	70.1	85	95.1	88.0	89.8	
20	Sibley composite	70.5	67.8	80	89.5	85.1	86.2	
	Average of all entries	81.3	79.6	89.4	.....	.....	.....
	Average of open-pollinated varieties	.....	72.2 ^a	..	.....	.....	.....

TABLE 11.—*Concluded*

		Farm 92—soil of lower productivity					
1	Illinois Hybrid 538.	58.4	56.4	79	106.6	122.6	118.6
2	Illinois Hybrid 543.	53.5	52.3	79	106.6	113.7	111.9
3	Illinois Hybrid 172.	50.9	49.9	78	105.2	108.5	107.7
4	Illinois Hybrid 533.	51.0	48.6	82	110.7	105.7	107.0
5	Illinois Hybrid 29.	51.4	49.9	75	101.2	108.5	106.7
6	Illinois Hybrid 360.	51.6	48.7	78	105.3	105.9	105.8
7	Sibley composite.	51.3	50.2	68	91.8	109.1	104.8
8	Illinois Hybrid 369.	48.0	47.2	81	109.3	102.6	104.3
9	Illinois Hybrid 392.	51.0	47.9	71	95.8	104.1	102.0
10	Illinois Hybrid 546.	49.1	46.9	73	98.5	102.0	101.1
11	Illinois Hybrid 588.	48.6	47.1	71	95.8	102.4	100.8
12	Station Yellow Dent.	48.0	46.8	68	91.8	101.7	99.2
13	Illinois Hybrid 384.	46.9	45.5	71	95.8	98.9	98.1
14	Original Krug.	46.3	44.6	71	95.8	97.0	96.7
15	Illinois Hybrid 925.	46.7	41.5	78	105.3	90.2	94.0
16	Illinois Hybrid 710.	44.2	42.9	71	95.8	93.2	93.9
17	Illinois Hybrid 391.	42.5	39.8	71	95.8	86.5	88.8
18	Illinois Hybrid 762.	41.3	38.0	78	105.3	82.6	88.3
19	Illinois Hybrid 737.	41.3	39.2	71	95.8	85.2	87.9
20	Illinois Hybrid 573.	41.2	36.5	68	91.8	79.3	82.4
	Average of all entries.	48.2	46.0	74.1	.....	.....	.....
	Average of open-pollinated varieties.	.....	45.7 ^a	..	.....	.....	.....

^aStation Yellow Dent and Original Krug.

TABLE 12.—SOIL-ADAPTATION TEST: URBANA, CENTRAL ILLINOIS, PERFORMANCE OF CORN VARIETIES AND HYBRIDS ON MUSCATINE SILT LOAM, A RELATIVELY GOOD CORN SOIL

Rank	Entry	Acre-yield		Erect plants	Performance rating for—			General performance rating
		Total	Sound		Lodging resistance	Sound yield	perct.	
Southwest rotation								
1	Illinois Hybrid 360	bu. 106.3	bu. 105.8	perct. 82	perct. 119.9	perct. 113.3	115.0	
2	Illinois Hybrid 546	104.0	102.8	82	119.9	110.1	112.5	
3	Illinois Hybrid 369	99.5	99.7	79	115.5	106.7	108.9	
4	Illinois Hybrid 588	103.4	102.6	71	103.8	109.8	108.4	
5	Illinois Hybrid 384	94.6	93.9	87	127.2	100.5	107.2	
6	Illinois Hybrid 762	98.0	97.0	76	111.1	103.9	105.7	
7	Illinois Hybrid 573	100.2	99.0	70	102.3	106.0	105.1	
8	Illinois Hybrid 172	92.9	92.0	82	119.9	98.5	103.9	
9	Illinois Hybrid 754	97.8	96.5	70	102.3	103.3	102.8	
10	Illinois Hybrid 391	94.1	92.9	77	112.6	99.5	102.8	
11	Illinois Hybrid 29	93.0	91.6	73	106.7	98.1	100.2	
12	Illinois Hybrid 533	101.6	100.2	52	76.0	107.2	99.4	
13	Illinois Hybrid 538	96.4	95.6	60	87.7	102.3	98.7	
14	Illinois Hybrid 543	92.2	91.5	62	90.6	98.0	96.1	
15	Illinois Hybrid 392	85.9	84.8	75	109.6	90.8	95.5	
16	Illinois Hybrid 710	85.8	83.8	67	98.0	89.7	91.8	
17	Station Yellow Dent	78.9	77.8	37	54.1	83.3	76.0	
18	Original Krug	76.3	74.1	30	43.9	79.3	70.4	
	Average of all entries	94.5	93.4	68.4	.....	.....	.....
	Average of open-pollinated varieties	.....	76.0 ^a	..	.....	.....	.....

TABLE 12.—*Concluded*

		South-Central rotation						
1	Illinois Hybrid 360	87.5	86.9	90	128.9	108.5	113.6	
2	Illinois Hybrid 384	87.0	86.4	90	128.9	107.9	113.1	
3	Illinois Hybrid 754	87.9	86.7	82	117.5	108.2	110.5	
4	Illinois Hybrid 369	84.0	83.3	90	128.9	104.0	110.2	
5	Illinois Hybrid 29	84.8	83.8	88	126.1	104.6	110.0	
6	Illinois Hybrid 573	87.3	87.0	70	100.3	108.6	106.5	
7	Illinois Hybrid 172	80.7	80.1	85	121.8	100.0	105.4	
8	Illinois Hybrid 546	83.3	82.2	78	111.7	102.6	104.9	
9	Illinois Hybrid 588	89.1	88.7	60	86.0	110.7	104.5	
10	Illinois Hybrid 543	83.3	81.4	75	107.4	101.6	103.0	
11	Illinois Hybrid 710	79.6	78.8	78	111.7	98.4	101.7	
12	Illinois Hybrid 392	74.8	73.6	85	121.8	91.9	99.4	
12	Illinois Hybrid 391	82.1	81.3	65	93.1	101.5	99.4	
13	Illinois Hybrid 538	82.2	81.3	55	78.8	101.5	95.8	
14	Illinois Hybrid 533	85.6	84.3	25	35.8	105.2	87.9	
15	Station Yellow Dent	73.0	71.0	40	57.3	88.6	80.8	
16	Original Krug	66.6	64.9	50	71.6	81.0	78.7	
17	Golden Beauty	62.0	59.8	50	71.6	74.7	73.9	
	Average of all entries	81.1	80.1	69.8	.....	.....	.....
	Average of open-pollinated varieties	.....	68.0 ^a	..	.....	.....	.....

^aStation Yellow Dent and Original Krug.

RESULTS OF SILAGE TESTS

(Tables 13 and 14, pages 315 and 316)

Three silage tests of corn varieties and hybrids were conducted in 1935. The fields were located near Algonquin in McHenry county, Maple Park in DeKalb county, and at Urbana¹ in Champaign county. The DeKalb field was destroyed by hail a few days before harvest, so no records were obtained from it. The other two fields were harvested.

In the Algonquin test the corn was planted in small, replicated plots the same size as in the other performance tests, but the plants were spaced 10 inches apart instead of in hills, simulating drilling conditions. The results are reported in Table 13.

On the Urbana field the corn was drilled with a corn planter in the regular way, in strips of approximately 80 rods running the length of the field. Every third strip was planted with an open-pollinated variety, Station Yellow Dent, which served as a check. Illinois Hybrid 912 and Funk Hybrids 206, 207, and 220L, were planted in strips 40 rows wide. The remainder of the entries were grown in strips 10 rows wide.

The general performance rating of the various entries was based on total yield of dry matter and lodging resistance. Total yield of dry matter was given three times the weight of lodging resistance.

In the Urbana and Algonquin tests additional records were made on the composition of the silage with respect to proportion of stalks, leaves, and ears. All the hybrids tested at Urbana, with one exception, had a higher proportion of their weight in the ears than had the open-pollinated variety (Table 14). The open-pollinated variety was taller than any of the hybrids, except Illinois Hybrid 13. The hybrids all stood more erect than the open-pollinated variety, altho all the entries tested were satisfactory in this respect.

At Algonquin the differences in production between the hybrids and open-pollinated varieties were not so marked as at Urbana, with the exception of several of the experimental hybrids. The outstanding feature of this test was the high lodging resistance shown by practically all the hybrids compared with the resistance of the open-pollinated varieties.

(For further discussion of hybrid seed, see page 317)

¹The field at Urbana was grown in cooperation with the Department of Dairy Husbandry.

TABLE 13.—SILAGE TEST: ALGONQUIN, NORTHEASTERN ILLINOIS, PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1935

Rank	Entry	Acre-yield of dry matter			Moisture in plants at harvest	Erect plants	Performance rating		General perform- ance rating
		Total	Blades	Ears			Lodging resistance	Total yield	
Regular division—entries in commercial production									
1	Illinois Hybrid 368.....	2.77	.50	1.43	66.0	87	132.2	97.9	106.5
2	DeKalb Hybrid 3A.....	2.97	.50	1.64	61.3	66	100.3	104.9	103.8
3	Webb Will Co. Favorite.....	3.04	.55	1.49	65.5	35	53.2	107.4	93.9
4	Suchy Yellow Dent.....	2.65	.42	1.44	59.7	36	54.7	93.2	83.6
●	Average of 4 best open-pollinated varieties	2.61	.47	1.34	62.9	31	47.1	92.1	80.9
5	Gunn Western Plowman.....	2.52	.44	1.37	62.9	35	53.2	89.0	80.1
6	Greenlee Yellow Dent.....	2.23	.46	1.06	63.5	18	27.3	78.8	65.9
	Average of division.....	2.70	.48	1.41	63.2	46.2	70.2	95.2	89.0
Experimental division—entries not in commercial production									
1	Illinois Hybrid 766.....	3.66	.82	1.68	64.6	91	138.2	129.3	131.5
2	DeKalb Hybrid 84.....	3.30	.52	1.86	63.9	92	139.7	116.6	122.4
3	DeKalb Hybrid 93.....	3.42	.52	1.79	63.0	68	103.3	120.8	116.4
4	Illinois Hybrid 44.....	3.29	.64	1.57	67.6	72	109.4	116.3	114.6
5	Illinois Hybrid 746.....	3.04	.60	1.46	63.9	89	135.2	107.4	114.4
6	Wisconsin Hybrid 10.....	3.06	.47	1.78	61.0	71	107.8	108.1	108.0
7	Illinois Hybrid 29.....	2.92	.57	1.43	66.4	78	118.5	103.2	107.0
8	Wisconsin Hybrid 525.....	2.89	.43	1.68	57.3	70	106.3	102.1	103.2
9	Wisconsin Hybrid 9.....	2.79	.47	1.54	63.2	73	110.9	98.6	101.7
10	DeKalb Hybrid 113.....	2.60	.44	1.42	63.1	86	130.6	91.9	101.6
11	Wisconsin Hybrid 570.....	2.82	.47	1.50	64.8	65	98.7	99.6	99.4
12	Wisconsin Hybrid 11.....	2.71	.46	1.43	65.0	72	109.4	95.8	99.2
13	DeKalb Hybrid 210.....	2.61	.44	1.52	61.7	68	103.3	92.2	95.0
14	DeKalb Hybrid 38.....	2.52	.40	1.33	65.1	74	112.4	89.0	94.9
15	DeKalb Hybrid 81.....	2.80	.54	1.41	65.9	46	69.9	98.9	91.7
16	Wisconsin Hybrid 531.....	2.27	.38	1.27	61.3	67	101.8	80.2	85.6
17	DeKalb Hybrid 372.....	2.32	.40	1.19	64.6	43	65.3	82.0	77.8
	Average of division.....	2.87	.50	1.52	63.7	72.4	110.0	101.6	104.0
	Average of all entries.....	2.83	.49	1.49	63.5	65.8	.....	.....	.....

TABLE 14.—SILAGE TEST: URBANA, CENTRAL ILLINOIS, PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1935

Rank	Entry	Acre-yield of dry matter			Moisture in plants at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Blades	Ears			Lodging resistance	Total yield	
Regular division—entries in commercial production									
1	Funk Hybrid 220L.....	4.94	.65	2.79	67.9	93.8	102.3	111.4	109.1
2	Illinois Hybrid 543.....	4.70	.69	2.51	64.1	88.6	96.6	106.0	103.7
3	Funk Hybrid 206.....	4.51	.71	2.12	69.2	96.0	104.7	101.7	102.4
4	Station Yellow Dent.....	4.08	.60	1.93	68.2	83.4	90.9	92.0	91.7
5	Illinois Hybrid 384.....	3.84	.53	2.16	65.5	94.4	102.9	86.6	90.7
	Average of division.....	4.41	.64	2.30	67.0	91.2	99.5	99.5	99.5
Experimental division—entries not in commercial production									
1	Illinois Hybrid 560.....	5.12	.75	2.86	64.7	95.1	103.7	115.4	112.5
2	Illinois Hybrid 912.....	5.12	.75	2.54	69.9	93.5	102.0	115.4	112.1
3	Illinois Hybrid 39.....	4.94	.84	2.33	67.3	92.1	100.4	111.4	108.7
4	Funk Hybrid 207.....	4.79	.71	2.25	67.4	92.4	100.8	108.0	106.2
5	Illinois Hybrid 562.....	4.72	.66	2.57	63.4	94.3	102.8	106.4	105.5
6	Illinois Hybrid 54.....	4.47	.66	2.19	67.3	90.1	98.2	100.8	100.1
7	Illinois Hybrid 51.....	4.18	.63	2.17	66.1	89.1	97.5	94.2	95.0
8	Illinois Hybrid 571.....	4.19	.67	2.15	63.7	86.4	94.4	94.5	94.5
9	Illinois Hybrid 13.....	4.05	.59	2.13	67.3	95.8	104.5	91.1	94.4
10	Illinois Hybrid 392.....	4.05	.49	2.25	62.8	85.7	93.5	91.3	91.8
11	Illinois Hybrid 710.....	3.83	.53	2.11	65.9	96.1	104.8	86.3	90.9
12	Illinois Hybrid 546.....	3.89	.51	1.75	66.6	91.9	100.2	87.7	90.8
	Average of division.....	4.45	.65	2.28	66.0	91.9	100.2	100.2	100.2
	Average of all entries.....	44.4	.65	2.28	66.3	91.7	.....	.....	.....

HYBRIDS TESTED FOR TWO YEARS

(Tables 15 to 17, pages 318 to 320)

Of the many hybrids tested in 1934 and 1935, twenty-five have been included in the tests both years.

In the northern section every hybrid exceeded the average of the five best open-pollinated varieties by a substantial margin (Table 15). In the north-central section nine of the sixteen hybrids surpassed the average of the five best open-pollinated entries in general performance rating for the two years (Table 16). In the central section every hybrid exceeded the average of the five best open-pollinated varieties for the two years (Table 17).

PERFORMANCE OF SECOND-GENERATION HYBRID SEED

(Table 18, page 321)

Corn growers are asking what will happen if they select seed from a field of first-generation hybrid corn for planting the next year. An entry of such seed from a double cross was included in the performance tests on four of the Illinois fields in 1935.

In resistance to lodging the second-generation hybrid was better by 11.7 percent than the average of the five best open-pollinated varieties but was inferior to the first-generation hybrid by 8.2 percent. Second-generation seed yielded 3 bushels less of sound corn than the open-pollinated varieties and 18 bushels less than first-generation seed.

In a yield test of first- and second-generation seed of double crosses conducted in 1932 in Ohio,¹ the first-generation hybrid seed averaged 78.5 bushels an acre and the second-generation 66.4 bushels, a reduction of 15.4 percent. In the ten individual comparisons the reductions ranged from 5 to 24 percent. At the Wisconsin Agricultural Experiment Station² ten first-generation double-cross hybrids averaged 64.1 bushels an acre; second-generation hybrids, 54.0 bushels; a reduction of 15.8 percent. The open-pollinated check yielded 53.1 bushels. In every comparison second-generation hybrid seed yielded less than first-generation, the reductions ranging from 11.0 to 27.9 percent.

Thus while the Illinois test was made with only one hybrid and in only one year, the results agree very well with those from Ohio and Wisconsin in showing the reductions in yield from second-generation hybrid seed as compared with first-generation seed.

¹RICHEY, F. D., STRINGFIELD, G. H., and SPRAGUE, G. F. The loss in yield that may be expected from planting second generation double-crossed seed corn. *Jour. Amer. Soc. Agron.* 26, 196-199. 1934.

²NEAL, N. P. The decrease in yielding capacity in advanced generations of hybrid corn. *Jour. Amer. Soc. Agron.* 27, 666-670. 1935.

TABLE 15.—TWO-YEAR SUMMARY, NORTHERN ILLINOIS: PERFORMANCE OF HYBRID ENTRIES GROWN IN BOTH 1934 AND 1935

Entry	Performance in 1934			Performance in 1935			Average of general performance rating
	Erect plants	Sound yield	General performance rating	Erect plants	Sound yield	General performance rating	
	(Stockton and Rochelle)			(Stockton, Rochelle, Plainfield)			
	<i>percl.</i>	<i>bu.</i>		<i>percl.</i>	<i>bu.</i>		
Illinois Hybrid 172.....	66.4	71.6	126.1	84.0	92.1	109.6	117.8
Illinois Hybrid 368.....	60.8	70.9	122.7	80.2	93.6	109.8	116.3
Funk Hybrid 214.....	65.5	66.5	116.0	85.2	79.7	98.7	107.4
DeKalb Hybrid 3A.....	61.0	60.0	103.5	86.3	85.9	104.6	104.1
Average of 5 best open-pollinated varieties.....	57.5 ^a	47.0 ^a	81.4	73.2	76.9	92.5	86.9
	(Rochelle and DeKalb)			(Stockton, Rochelle, Plainfield)			
Pioneer Hi-Bred 351.....	67.9	26.4	98.6	91.2	76.0	97.1	97.9
Average of 5 best open-pollinated varieties.....	27.9 ^b	17.7 ^b	78.2	73.2	76.9	92.5	85.4
	(DeKalb)			(Stockton, Rochelle, Plainfield)			
Illinois Hybrid 366.....	55.0	27.4	140.3	84.2	93.1	110.6	125.5
Pioneer Hi-Bred 323.....	67.5	14.9	92.4	78.3	91.3	107.2	99.8
Average of 5 best open-pollinated varieties.....	53.3 ^c	13.9 ^c	81.8	73.2	76.9	92.5	87.2

^aAverage of 4 varieties at Stockton and 3 at Rochelle.^bAverage of 4 varieties at DeKalb and 3 at Rochelle.^cAverage of 4 varieties.

TABLE 16.—TWO-YEAR SUMMARY, NORTH-CENTRAL, ILLINOIS: PERFORMANCE OF HYBRID ENTRIES GROWN IN BOTH 1934 AND 1935

Entry	Performance in 1934			Performance in 1935			Average of general performance rating
	Erect plants	Sound yield	General performance rating	Erect plants	Sound yield	General performance rating	
	(Granville and Galesburg)			(Cambridge, Granville, Dwight)			
	<i>percl.</i>	<i>bu.</i>		<i>percl.</i>	<i>bu.</i>		
Illinois Hybrid 172.....	63.7	32.5	126.9	90.3	97.5	107.3	117.1
Funk Hybrid 206.....	71.9	31.2	125.4	87.8	89.2	99.8	112.6
Pfister Hybrid 4857.....	57.9	27.0	104.0	85.4	103.4	110.6	107.3
Funk Hybrid 214.....	74.4	27.2	108.3	89.0	91.6	102.1	105.2
Iowa Hybrid 13.....	62.5	28.0	103.5	79.1	92.8	100.1	101.8
Morgan Hybrid M.W.106.....	58.4	17.9	68.3	84.8	90.9	100.2	84.3
Morgan Hybrid M.W.104.....	55.4	13.7	61.9	85.3	90.2	99.9	80.9
Average of 5 best open-pollinated varieties.....	48.0	25.1	94.7	67.3	86.9	91.7	93.2
	(Galesburg)			(Cambridge, Granville, Dwight)			
Illinois Hybrid 360.....	73.8	50.0	130.1	89.3	107.9	115.5	122.8
Illinois Hybrid 372.....	61.3	43.4	111.7	90.1	95.7	99.2	105.5
Morgan Hybrid M.W.105.....	48.3	27.7	75.3	87.3	92.1	102.0	88.7
Pioneer Hi-Bred 306.....	55.3	26.5	76.1	78.1	93.9	100.7	88.4
Morgan Hybrid M.W.138.....	59.0	24.8	74.4	87.5	83.2	94.8	84.6
Average of 5 best open-pollinated varieties.....	50.0	39.9	100.9	67.3	86.9	91.7	96.3
	(Granville)			(Cambridge, Granville, Dwight)			
Pfister Hybrid 584.....	63.1	13.9	96.7	82.4	100.4	107.3	102.0
Funk Hybrid 220.....	61.3	12.9	90.9	97.4	93.6	103.3	97.1
Iowa Hybrid 942.....	46.9	10.9	74.8	80.3	93.0	100.6	87.7
Pioneer Hi-Bred 311.....	76.9	6.4	64.8	89.9	84.3	96.4	80.6
Average of 5 best open-pollinated varieties.....	53.2	13.1	88.4	67.3	86.9	91.7	90.1

TABLE 17.—TWO-YEAR SUMMARY, CENTRAL ILLINOIS: PERFORMANCE OF HYBRID ENTRIES GROWN IN BOTH 1934 AND 1935

Entry	Performance in 1934			Performance in 1935			Average of general performance rating
	Erect plants	Sound yield	General performance rating	Erect plants	Sound yield	General performance rating	
	(Minier and Tolono)			(Adair, Bellflower, Armstrong)			
	<i>perct.</i>	<i>bu.</i>		<i>perct.</i>	<i>bu.</i>		
Illinois Hybrid 508.....	82.3	68.7	123.2	72.6	79.1	98.2	110.7
Illinois Hybrid 360.....	75.0	61.6	111.1	72.8	91.9	109.7	110.4
Illinois Hybrid 391.....	72.3	68.2	121.8	53.4	82.4	94.0	107.9
Illinois Hybrid 172.....	67.4	61.0	108.3	72.8	84.1	102.8	105.6
Funk Hybrid 220.....	67.7	59.0	109.0	68.8	79.6	97.2	103.1
Funk Hybrid 206.....	71.3	61.1	111.8	67.8	75.3	93.0	102.4
Funk Hybrid 208.....	73.7	60.9	111.2	60.5	74.5	89.5	100.4
Pfister Hybrid 4857.....	73.1	50.0	94.2	64.7	88.7	103.8	99.1
Pioneer Hi-Bred 306.....	67.6	51.6	94.5	57.5	83.8	96.8	95.7
Iowa Hybrid 13.....	71.2	45.2	85.4	56.6	83.1	95.9	90.7
Average of 5 best open-pollinated varieties.....	61.2	51.4	92.6	45.1	73.4	84.6	88.6
	(Tolono)			(Adair, Bellflower, Armstrong)			
Pfister Hybrid 584.....	67.5	23.3	72.1	61.3	87.7	101.7	86.9
Average of 5 best open-pollinated varieties.....	49.9	40.1	95.4	45.1	73.4	84.6	90.0
	(Southwest and South-Central rotations, Urbana)			(Adair, Bellflower, Armstrong)			
Illinois Hybrid 384.....	51.5	58.4	120.1	87.5	84.4	108.4	114.3
Illinois Hybrid 172.....	43.3	61.7	122.5	72.8	84.1	102.8	112.7
Illinois Hybrid 360.....	46.5	53.8	111.0	72.8	91.9	109.7	110.4
Illinois Hybrid 391.....	39.8	53.4	105.6	53.4	82.4	94.0	99.8
Average of 5 best open-pollinated varieties.....	44.1 ^a	38.3 ^a	83.7	45.1	73.4	84.6	84.2

^aAverage of 3 varieties on the South-Central rotation.

TABLE 18.—SECOND-GENERATION HYBRID SEED: PERFORMANCE COMPARED WITH FIRST-GENERATION SEED AND WITH FIVE BEST OPEN-POLLINATED VARIETIES, FOUR ILLINOIS FIELDS, 1935
(The hybrid seed was from a double cross)

Seed	Acre-yield		Moisture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
	Total	Sound			Lodging resistance	Sound yield	
<i>Cambridge</i>		<i>bu.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>	<i>percl.</i>	
First-generation hybrid.....	115.7	112.2	20.9	73.0	97.5	113.5	109.5
Second-generation hybrid.....	95.0	93.0	21.6	69.0	92.1	94.1	93.6
Average of 5 best open-pollinated varieties.....	94.7	91.0	22.1	52.9	70.6	92.1	86.7
<i>Granville</i>							
First-generation hybrid.....	89.0	88.1	19.8	93.8	101.3	107.3	105.8
Second-generation hybrid.....	75.6	74.8	19.6	91.2	98.5	91.1	93.0
Average of 5 best open-pollinated varieties.....	78.2	76.7	21.6	79.1	85.4	93.5	91.5
<i>Dwight</i>							
First-generation hybrid.....	112.5	110.0	18.6	89.1	103.0	109.1	107.6
Second-generation hybrid.....	90.0	87.6	19.1	74.0	85.2	86.9	86.5
Average of 5 best open-pollinated varieties.....	98.7	95.1	20.5	68.2	78.4	94.3	90.3
<i>DeKalb</i>							
First-generation hybrid.....	73.7	73.7	23.7	84.5	94.0	109.2	105.4
Second-generation hybrid.....	56.2	56.2	23.6	78.5	87.3	83.3	84.3
Average of 5 best open-pollinated varieties.....	60.6	60.6	21.9	79.9	88.8	89.9	89.6
<i>Average</i>							
First-generation hybrid.....	97.7	96.0	20.8	85.2	99.0	109.8	107.1
Second-generation hybrid.....	79.2	77.9	21.0	78.2	90.8	88.9	89.4
Average of 5 best open-pollinated varieties.....	83.1	80.9	21.5	70.0	80.8	92.5	89.6

SUMMARY

Corn performance tests in 1935 were conducted in seven different geographical sections of Illinois. Two hundred seventy-four kinds of corn were included, of which 46 were open-pollinated varieties, 26 composite samples of open-pollinated corn, and 202 hybrids.

In all sections of the state the hybrids demonstrated their superiority over the best open-pollinated varieties. In the central and north-central sections the yield of the five best hybrids exceeded that of the five best open-pollinated varieties by 18.2 and 20.3 bushels, respectively, of sound corn an acre; and in the southeastern section, by 6.0 bushels. The greatest differences occurred on land of high productivity.

In the silage tests the hybrid entries did not greatly surpass the open-pollinated entries in total yield of silage, but they did surpass them in the grain fraction, which means in feeding value. The good hybrids were also superior to the open-pollinated varieties in standing ability.

Yields from second-generation hybrid seed were no greater than from adapted open-pollinated varieties and were much below the yields of first-generation hybrids.

For these performance tests, major soil types were selected and care was taken to see that each field was uniform as to soil type. While seasonal conditions caused late planting on most fields, favorable growing conditions followed. Frosts in late September and early October stopped the growth of all cold-susceptible entries, and fall weather was generally unfavorable for the curing of corn. At Cambridge, in the north-central section, and at all fields in the central, south-central, and southern sections, yields were affected by lodging caused by southern corn rootworm infestation.

Farmers are cautioned that tests such as these will yield varying results from season to season, and that more than one or two years are necessary to establish the superiority of specific hybrids or varieties for different sections of the state. The broad differences demonstrated during the past two years between the best hybrids and the best open-pollinated varieties appear, however, to be decisive in indicating the probable place of hybrid seed in the state's future corn economy.

APPENDIX

TABLE 19.—STOCKTON, NORTHERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1935

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Regular division—entries in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Illinois Hybrid 172.....	100.7	93.9	6.75	24.7	72.5	106.8	118.1	113.8
2	Illinois Hybrid 368.....	100.2	96.9	3.29	23.2	62.5	92.1	119.8	112.9
2	Illinois Hybrid 366.....	97.5	94.3	3.28	24.0	69.2	101.9	116.6	112.9
3	DeKalb Hybrid 3A.....	90.4	87.1	3.65	22.7	79.2	116.7	107.7	110.0
4	Funk Hybrid 215.....	93.4	87.4	6.42	25.2	75.0	110.5	108.0	108.6
5	Pioneer Hi-Bred 323.....	95.7	90.1	5.85	22.3	60.8	89.6	111.4	106.0
6	Pioneer Hi-Bred 351.....	83.3	78.0	6.36	22.3	81.7	120.3	96.4	102.4
7	Simmons Will County Favorite.....	93.6	90.2	3.63	22.9	50.8	74.8	111.5	102.3
8	Iowa Hybrid 931.....	88.8	84.6	4.73	22.3	64.2	83.5	104.6	99.3
9	Funk Hybrid 214.....	85.1	77.4	9.05	24.9	69.2	101.9	95.7	97.3
●	Average of 5 best open-pollinated var....	84.5	80.8	4.38	22.8	54.0	79.5	99.8	94.8
10	Pioneer Hi-Bred 311.....	94.6	81.3	14.06	21.5	76.7	73.6	100.5	93.8
11	Evans Will County Favorite.....	80.8	76.8	4.95	22.1	60.0	88.4	94.9	93.3
12	Eckhardt Western Plowman.....	83.4	78.4	6.00	22.9	55.8	82.2	96.9	93.2
13	Curtis Western Plowman.....	82.9	79.8	3.74	22.9	51.7	76.2	98.6	93.0
14	Gunn Western Plowman.....	81.6	78.7	3.55	23.2	51.7	76.2	97.3	92.0
15	Webb Will County Favorite.....	81.3	76.3	6.15	22.9	50.0	73.6	94.3	89.1
16	Community composite (Barbak) ¹	71.9	68.8	4.31	23.0	53.3	78.5	85.0	83.4
17	Community composite (Semesan Jr.).....	72.4	67.2	7.18	23.0	50.8	74.8	83.1	81.0
18	Community composite (untreated).....	66.9	62.0	7.32	22.7	47.5	70.0	76.6	75.0
	Average of division.....	86.6	81.5	5.89	23.1	62.2	89.0	100.8	97.9
Experimental division—entries not in commercial production									
1	*Illinois Hybrid 586.....	96.7	93.0	3.83	23.0	86.7	127.7	115.0	118.2
2	*Illinois Hybrid 751.....	100.4	93.0	7.37	24.2	85.0	125.2	115.0	117.6
3	*DeKalb Hybrid 93.....	102.9	97.1	5.64	23.3	70.0	103.1	120.0	115.8
4	*Wisconsin Hybrid 14.....	93.9	90.1	4.05	23.0	80.0	117.8	111.4	113.0
5	Illinois Hybrid 570.....	96.4	91.8	4.77	23.7	74.2	109.3	113.5	112.5
6	*Wisconsin Hybrid 15.....	93.6	86.5	7.59	23.2	83.3	122.7	106.9	110.9
7	*DeKalb Hybrid 119.....	98.1	93.0	5.20	23.2	66.7	98.2	115.0	110.8
8	*Wisconsin Hybrid 4.....	91.5	87.9	3.93	24.0	76.7	113.0	108.7	109.8
9	*Wisconsin Hybrid 5.....	84.6	83.4	1.42	21.0	85.0	125.2	103.1	108.6
10	*DeKalb Hybrid 104.....	93.9	88.6	5.64	22.9	71.7	105.5	109.5	108.5
11	*Wisconsin Hybrid 2.....	91.7	86.8	5.34	22.5	75.0	110.5	107.3	108.1
12	*National Hybrid 9.....	94.9	89.0	6.22	24.2	68.3	100.6	110.0	107.7
13	*Pioneer Hi-Bred 439.....	89.6	84.7	5.47	23.2	75.0	110.5	104.7	106.2
14	*Wisconsin Hybrid 7.....	94.5	88.1	6.77	24.0	65.0	95.7	108.9	105.6
15	*Pioneer Hi-Bred 2086A.....	89.1	81.3	8.75	21.3	78.0	115.3	100.5	104.2
16	*Wisconsin Hybrid 6.....	93.4	88.4	5.35	24.0	60.0	83.4	109.3	104.1
17	*Wisconsin Hybrid 17.....	89.9	84.3	6.23	23.7	70.0	103.1	104.2	103.9
18	*Pioneer Hi-Bred 2123.....	89.7	80.7	10.03	22.7	78.3	115.3	99.8	103.7
19	*Pioneer Hi-Bred 3377.....	85.2	80.3	5.75	23.0	78.3	113.0	99.3	102.7
20	*Pioneer Hi-Bred 3500.....	94.8	85.3	10.02	23.5	63.3	93.2	105.4	102.4
21	Iowa Hybrid 3294.....	85.9	78.1	9.08	22.1	80.8	119.0	96.5	102.1
22	*DeKalb Hybrid 97.....	88.5	81.3	8.14	24.3	71.6	105.6	100.5	101.8
23	*Wisconsin Hybrid 8.....	90.2	74.6	16.85	24.0	80.0	117.8	92.2	98.6
24	*Wisconsin Hybrid 3.....	79.3	75.5	4.79	21.7	73.3	108.0	93.3	97.0
25	*Ohio Hybrid 4.....	80.9	76.1	5.93	22.3	61.6	99.7	93.9	95.4
26	*Pioneer Hi-Bred 2113.....	81.3	71.8	11.69	22.5	75.0	110.5	88.8	94.2
27	Wisconsin Hybrid 13.....	88.3	78.0	11.66	25.0	58.3	85.9	96.4	93.8
28	*Wisconsin Hybrid 16.....	88.9	83.6	5.96	23.9	43.3	63.8	103.3	93.4
29	*Ohio Hybrid 5.....	89.0	79.8	10.34	23.7	51.7	76.1	98.6	93.0
30	*DeKalb Hybrid 118.....	88.4	79.6	9.95	24.0	51.7	76.1	98.4	92.8
31	*Iowaleth Hybrid B. C.....	88.0	66.2	24.77	24.3	73.3	108.0	81.8	88.4
32	*Ohio Hybrid 3.....	74.5	64.3	13.69	22.3	75.0	110.5	79.5	87.3
33	*Iowaleth Hybrid B. J.....	76.9	66.9	13.00	23.3	66.7	98.1	82.7	86.6
34	*DeKalb Hybrid 410.....	67.4	64.8	3.86	24.3	68.3	100.6	80.1	85.2
35	*DeKalb Hybrid 151.....	62.0	56.5	8.87	23.9	76.7	113.0	69.8	80.6
36	DeKalb Hybrid 495.....	52.3	49.6	5.16	23.3	83.3	122.7	61.3	76.7
	Average of division.....	87.4	80.6	7.78	23.3	71.1	105.8	99.6	101.1
	Average of all entries.....	87.1	80.9	7.12	23.2	68.0	.....	.....	.....

*Average of 3 plots instead of 6.

¹The community composite entry was used in some of the tests to study the influence of seed treatment.

TABLE 20.—ROCHELLE, NORTHERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1935

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Logging resist- ance	Sound yield	
Regular division—entries in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Illinois Hybrid 366.....	96.0	94.4	1.67	21.1	93.5	103.4	120.4	116.2
2	Illinois Hybrid 172.....	94.3	90.4	4.14	21.4	91.0	100.7	115.3	111.7
3	Illinois Hybrid 368.....	90.8	89.1	1.87	21.0	91.0	100.7	113.6	110.4
4	Pioneer Hi-Bred 323.....	91.6	88.5	3.38	20.1	90.0	99.6	112.9	109.6
5	DeKalb Hybrid 3A.....	85.7	84.2	1.75	20.5	89.0	98.5	107.4	105.2
6	Pioneer Hi-Bred 311.....	87.2	82.4	5.50	19.9	91.8	101.6	105.1	104.2
7	Iowa Hybrid 931.....	82.6	81.4	1.45	20.2	86.5	95.7	103.8	101.8
8	Funk Hybrid 215.....	82.6	77.2	6.54	23.0	90.5	100.1	98.5	98.9
9	Funk Hybrid 214.....	76.9	74.9	2.60	23.5	92.0	101.8	95.5	97.1
10	Eckhardt Western Plowman.....	75.3	74.0	1.73	20.7	85.5	94.6	94.4	94.5
11	Pioneer Hi-Bred 351.....	72.1	69.5	3.61	20.6	98.1	108.5	83.6	93.6
12	Webb Will County Favorite.....	75.1	74.5	.80	21.0	79.2	87.6	95.0	93.2
13	Community composite (Semesan Jr.).....	72.3	70.7	2.21	20.7	76.5	84.6	90.2	88.8
14	Simmons Will County Favorite.....	70.1	69.0	1.57	21.0	81.0	89.6	88.0	88.4
●	Average of 5 best open-pollinated var.....	70.0	68.8	1.71	20.8	81.7	90.4	87.7	88.4
15	Community composite (Barbak).....	66.6	65.7	1.35	21.1	75.5	83.5	83.8	83.7
15	Evans Will County Favorite.....	65.9	64.6	1.97	20.4	79.2	87.6	82.4	83.7
16	Community composite (untreated).....	67.9	66.2	2.50	21.4	73.5	81.3	84.4	83.6
17	Gunn Western Plowman.....	63.7	61.8	2.98	21.0	83.5	92.4	78.8	82.2
	Average of division.....	78.7	76.6	2.67	21.0	86.0	95.1	97.7	97.0
Experimental division—entries not in commercial production									
1	*Illinois Hybrid 751.....	92.1	91.0	1.19	22.1	98.0	108.4	116.1	114.2
2	*DeKalb Hybrid 93.....	95.2	94.0	1.26	21.0	87.0	96.2	119.9	114.0
3	Illinois Hybrid 570.....	92.2	91.0	1.30	22.9	94.4	104.4	116.1	113.2
4	*Wisconsin Hybrid 6.....	92.4	90.5	2.06	22.3	91.0	100.7	115.4	111.7
5	*Illinois Hybrid 586.....	90.6	89.2	1.55	21.4	90.5	105.1	113.8	111.6
6	*DeKalb Hybrid 119.....	90.8	89.7	1.21	21.4	92.6	102.4	114.4	111.4
7	*DeKalb Hybrid 104.....	90.4	87.7	2.99	21.9	94.0	104.4	111.9	110.0
8	*DeKalb Hybrid 118.....	87.3	86.8	.57	21.2	95.1	105.2	110.7	109.3
9	*National Hybrid 9.....	89.2	87.8	1.57	20.8	91.0	100.7	112.0	109.2
10	*DeKalb Hybrid 97.....	84.4	83.9	.59	21.4	94.0	104.4	107.0	106.4
11	*Iowaleth Hybrid B. J.....	86.5	84.3	2.54	22.3	91.6	101.3	107.5	106.0
12	*Pioneer Hi-Bred 2086A.....	85.0	83.7	1.53	19.7	92.6	102.4	106.8	105.7
13	*Wisconsin Hybrid 4.....	83.4	82.2	1.44	21.1	97.6	108.0	104.8	105.6
14	DeKalb Hybrid 108.....	87.6	83.7	4.45	21.0	91.8	101.6	106.8	105.5
15	Wisconsin Hybrid 13.....	85.3	83.5	2.11	21.9	90.7	100.3	106.5	105.0
16	*DeKalb Hybrid 102.....	81.5	80.5	1.23	21.4	96.6	106.9	102.7	103.8
17	*Pioneer Hi-Bred 439.....	78.9	77.9	1.27	19.6	96.0	106.2	99.4	101.1
18	*DeKalb Hybrid 477.....	81.7	79.7	2.45	21.9	88.0	97.4	101.7	100.6
18	*Wisconsin Hybrid 2.....	79.5	78.6	1.13	20.7	91.6	101.3	100.3	100.6
19	*Ohio Hybrid 4.....	83.1	80.2	3.49	21.0	84.0	92.9	102.3	100.0
20	*Wisconsin Hybrid 7.....	76.9	76.2	.91	21.9	96.0	106.2	97.2	99.5
21	*Wisconsin Hybrid 5.....	75.3	74.0	1.73	20.1	98.6	109.1	94.4	98.1
22	*Pioneer Hi-Bred 2123.....	77.5	73.7	4.90	21.4	97.0	107.3	94.0	97.3
23	*Wisconsin Hybrid 3.....	73.7	73.4	.41	19.7	94.6	104.7	93.6	96.4
24	*Ohio Hybrid 5.....	81.7	77.1	5.63	22.1	81.0	89.6	98.3	96.1
25	*Wisconsin Hybrid 8.....	74.4	71.7	3.63	22.9	96.0	106.2	91.5	95.2
26	*Iowaleth Hybrid B. C.....	75.7	70.9	6.34	22.3	92.6	102.4	90.4	93.4
27	*Pioneer Hi-Bred 2113.....	69.5	66.4	4.46	20.7	93.6	103.5	84.7	89.4
28	*DeKalb Hybrid 416.....	65.6	64.3	1.98	21.7	95.0	105.1	82.0	87.8
29	*DeKalb Hybrid 410.....	58.1	57.0	1.89	23.2	92.0	101.8	72.7	80.0
30	*Ohio Hybrid 3.....	56.7	54.1	4.59	21.2	93.0	102.9	69.0	77.5
	Average of division.....	81.4	79.5	2.33	21.4	93.0	102.9	101.4	101.8
	Average of all entries.....	80.4	78.4	2.49	21.3	90.4	.....	.....	.....

*Average of 5 plots instead of 10.

TABLE 21.—PLAINFIELD, NORTHERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1935

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Regular division—entries in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Illinois Hybrid 368.....	95.8	94.8	1.04	20.9	87.2	97.1	112.9	109.0
2	Pioneer Hi-Bred 323.....	99.6	95.4	4.22	21.1	84.0	93.5	113.6	108.6
3	Iowa Hybrid 931.....	95.5	94.4	1.15	18.9	84.5	94.1	112.4	107.8
4	Pioneer Hi-Bred 311.....	95.1	91.5	3.79	21.3	91.0	101.3	108.9	107.0
5	Illinois Hybrid 172.....	95.9	91.7	4.38	21.9	88.5	98.5	109.2	106.5
6	Illinois Hybrid 366.....	92.2	90.6	1.74	22.4	90.0	100.2	107.9	106.0
7	DeKalb Hybrid 3A.....	87.8	86.9	1.03	19.9	90.6	100.9	103.5	102.9
8	Simmons Will County Favorite.....	89.0	88.4	.67	20.5	84.0	93.5	105.2	102.3
9	Webb Will County Favorite.....	88.9	86.9	2.25	21.5	82.0	91.3	103.5	100.5
10	Funk Hybrid 214.....	87.7	86.1	1.82	23.5	94.5	94.1	102.5	100.4
11	Funk Hybrid 215.....	89.2	84.6	5.16	22.9	87.0	96.8	100.7	99.7
12	Pioneer Hi-Bred 351.....	83.6	80.3	3.95	20.6	93.8	104.4	95.6	97.8
	● Average of 5 best open-pollinated var.....	83.5	81.9	1.91	21.5	84.1	93.7	97.5	96.6
13	Eckhardt Western Plowman.....	82.2	79.4	3.41	20.9	86.7	96.5	94.5	95.0
14	Community composite (Barbak).....	81.4	79.0	2.95	21.7	85.0	94.6	94.0	94.2
15	Community composite (Semesan Jr.).....	82.4	79.9	3.03	21.7	79.5	88.5	95.0	93.4
16	Gunn Western Plowman.....	79.2	78.3	1.14	22.5	83.5	93.0	93.2	93.1
17	Community composite (untreated).....	79.9	77.5	3.00	21.7	83.5	93.0	92.3	92.5
18	Evans Will County Favorite.....	78.3	76.5	2.30	22.3	84.5	94.1	91.1	91.9
	Average of division.....	88.0	85.7	2.61	21.5	86.7	95.8	102.0	100.5
Experimental division—entries not in commercial production									
1	*DeKalb Hybrid 97.....	103.9	103.4	.48	21.4	93.0	103.5	123.1	118.2
2	*DeKalb Hybrid 93.....	103.6	103.2	.39	19.9	92.0	102.4	122.9	117.8
3	*National Hybrid 9.....	97.9	95.8	2.45	22.5	90.0	100.2	114.0	110.6
4	*Wisconsin Hybrid 6.....	98.2	96.4	1.83	21.4	84.0	93.5	114.8	109.5
5	*Illinois Hybrid 586.....	94.5	90.9	3.81	20.7	92.6	103.1	108.2	106.9
6	*Pioneer Hi-Bred 439.....	92.8	89.1	3.99	19.3	95.6	106.4	106.1	106.2
7	*Wisconsin Hybrid 4.....	90.0	89.4	.67	21.7	94.0	104.6	106.4	106.0
8	*DeKalb Hybrid 102.....	89.2	88.5	.78	18.6	96.0	106.9	105.4	105.8
9	*DeKalb Hybrid 104.....	92.0	90.8	1.30	20.2	88.0	98.0	108.1	105.6
10	*Pioneer Hi-Bred 2123.....	89.3	87.9	1.57	21.9	96.2	107.1	104.6	105.2
11	*Illinois Hybrid 751.....	88.0	86.9	1.25	24.3	94.0	104.6	103.5	103.8
12	*Wisconsin Hybrid 8.....	89.2	86.6	2.91	22.9	92.0	102.4	103.1	102.9
13	*Ohio Hybrid 4.....	89.9	88.2	1.89	21.7	86.2	96.0	105.0	102.8
14	*Iowaleth Hybrid B. J.....	88.2	86.3	2.15	20.2	92.0	102.4	102.7	102.6
15	*DeKalb Hybrid 118.....	85.9	85.1	.93	22.5	93.3	103.9	101.3	102.0
16	*Iowaleth Hybrid B. C.....	88.9	84.6	4.84	22.9	94.6	105.3	100.7	101.9
17	*Pioneer Hi-Bred 2113.....	89.1	86.2	3.25	21.3	88.0	98.0	102.6	101.5
18	Illinois Hybrid 570.....	87.9	84.7	3.64	23.9	91.5	101.9	98.8	101.1
19	*Wisconsin Hybrid 3.....	83.5	82.7	.96	20.8	93.7	104.3	98.5	100.0
20	*Wisconsin Hybrid 2.....	86.5	83.7	3.24	20.0	89.0	99.1	99.6	99.5
21	*Wisconsin Hybrid 5.....	81.1	80.5	.74	22.1	97.0	108.0	95.8	98.9
22	*Pioneer Hi-Bred 2086A.....	85.3	82.1	3.75	20.8	89.0	99.1	97.7	98.1
23	*Wisconsin Hybrid 1.....	83.9	81.0	3.46	24.5	90.5	100.7	96.4	97.5
24	*DeKalb Hybrid 119.....	83.7	81.5	2.63	22.7	88.2	98.2	97.0	97.3
25	*DeKalb Hybrid 477.....	80.8	80.4	.50	23.2	91.0	101.3	87.0	97.1
26	*Ohio Hybrid 5.....	85.9	82.2	4.31	23.2	79.0	87.9	97.9	95.4
27	*Wisconsin Hybrid 7.....	83.7	79.6	4.90	23.2	86.6	96.4	94.8	95.2
28	*DeKalb Hybrid 416.....	74.5	73.3	1.61	22.5	95.6	106.4	87.3	92.1
29	*Ohio Hybrid 3.....	75.4	74.2	1.59	21.3	91.0	101.3	88.3	91.6
30	Iowa Hybrid 3294.....	77.8	73.2	5.91	21.9	92.5	103.0	87.1	91.1
31	*DeKalb Hybrid 410.....	68.6	68.1	.73	22.5	94.0	104.6	81.1	87.0
32	*DeKalb Hybrid 151.....	66.2	65.1	1.66	22.1	96.0	106.9	77.5	84.9
33	DeKalb Hybrid 159.....	61.9	60.4	2.42	22.1	93.3	103.9	71.9	79.9
34	*DeKalb Hybrid 373.....	55.7	54.8	1.62	23.4	92.0	102.4	65.2	74.5
	Average of division.....	85.1	83.1	2.35	21.9	91.5	101.9	98.7	99.7
	Average of all entries.....	86.1	84.0	2.44	21.7	89.8	.....	.....	.....

*Average of 5 plots instead of 10.

TABLE 22.—CAMBRIDGE, NORTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1935

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Regular division—entries in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Illinois Hybrid 360	120.7	118.6	1.74	21.4	80.0	107.9	120.0	117.0
2	Illinois Hybrid 360A	118.5	114.7	3.21	22.0	80.5	107.5	116.0	113.9
3	Illinois Hybrid 366	115.5	111.5	3.46	21.4	82.0	109.5	112.8	112.0
4	Pfister Hybrid 4857	115.7	112.2	6.05	20.9	73.0	97.5	113.5	109.5
5	Illinois Hybrid 384	106.7	105.5	1.12	20.8	87.5	116.8	106.7	109.2
6	Illinois Hybrid 364	116.4	112.6	3.26	21.1	69.0	92.1	113.9	108.5
7	Pfister Hybrid 584	114.4	111.4	2.62	20.8	87.5	90.1	112.7	107.1
8	Illinois Hybrid 172	105.4	101.7	3.51	20.9	85.0	113.5	102.9	105.6
9	Funk Hybrid 214	100.7	99.0	1.69	21.6	86.0	114.8	100.1	103.8
10	Iowa Hybrid 939	107.3	99.1	7.64	21.2	79.5	106.1	100.2	101.7
11	M. W. Hybrid 111	104.2	97.9	6.05	19.7	82.0	109.5	99.0	101.6
12	Pioneer Hi-Bred 306	108.2	100.6	7.02	20.1	73.5	98.1	101.7	100.8
12	Funk Hybrid 220	100.4	98.1	2.29	22.8	79.0	105.5	99.2	100.8
13	M. W. Hybrid 105	103.5	97.7	5.60	19.9	79.8	105.2	98.8	100.4
14	Pioneer Hi-Bred 311	102.0	94.1	7.75	20.0	82.5	110.1	95.2	98.9
15	Iowa Hybrid 942	108.4	103.4	4.61	20.3	60.5	80.8	104.6	98.7
16	M. W. Hybrid 104	100.9	96.1	4.76	19.8	76.0	101.5	97.2	98.3
17	Funk Hybrid 206	97.4	93.9	3.59	22.6	80.5	107.5	95.0	98.1
18	Funk Hybrid 215	98.7	96.4	2.33	21.5	74.0	98.8	97.5	97.8
19	Pioneer Hi-Bred 311A	104.9	92.8	11.53	20.3	81.5	108.8	93.9	97.6
20	M. W. Hybrid 106	103.7	97.3	6.17	21.6	70.5	94.1	98.4	97.3
21	Hulthing Yellow Dent	102.8	100.4	2.33	20.3	60.5	80.8	101.5	96.3
22	Iowa Hybrid 13	104.4	93.1	10.82	21.4	64.0	85.4	94.2	92.0
23	M. W. Hybrid 138	91.9	84.5	8.05	20.7	78.0	104.1	85.5	90.2
24	Funk Hybrid 208	95.4	92.3	3.25	22.2	59.5	79.4	93.4	89.9
25	McKeigan Yellow Dent	93.4	85.8	8.14	24.0	67.5	90.1	86.8	87.6
26	Iowa Hybrid B	100.6	81.4	19.09	22.7	76.5	102.1	82.3	87.3
●	Average of 5 best open-pollinated var.	94.7	91.0	3.91	22.1	52.9	70.6	92.1	86.7
27	Original Krug	95.1	92.1	3.15	22.9	47.5	63.4	93.2	85.8
28	Iowa Hybrid C	95.0	79.9	15.89	23.2	74.0	98.8	80.8	85.3
29	Roeschley Yellow Dent	95.7	92.3	3.55	22.5	41.0	54.7	93.4	83.7
30	Community composite (Semesan Jr.)	92.8	89.2	3.88	21.8	47.5	63.4	90.2	83.5
31	Community composite (Barbak)	88.5	85.0	3.95	22.8	49.6	66.2	86.0	81.1
32	Community composite (untreated)	88.4	85.0	3.85	23.7	47.5	63.4	86.0	80.4
33	Angevine Yellow Dent	86.3	84.6	1.97	20.9	48.0	64.1	85.6	80.2
34	Queen of the Field	86.6	84.0	3.00	21.0	45.0	60.1	85.0	78.8
	Average of division	102.0	96.7	5.20	21.4	69.6	92.9	97.8	93.7
Experimental division—entries not in commercial production									
1	*Illinois Hybrid 751	117.3	115.8	1.28	20.8	89.6	119.6	117.1	117.7
2	*Iowa Hybrid 3110	116.2	113.6	2.24	21.1	79.0	105.5	114.9	112.6
3	*Illinois Hybrid 960	120.6	107.6	10.78	22.6	87.0	116.2	108.8	110.7
4	*Illinois Hybrid 546	109.0	105.3	3.39	22.6	90.0	120.2	106.5	109.9
5	*Illinois Hybrid 571	107.4	105.0	2.23	21.6	90.2	120.4	106.2	109.8
6	*Illinois Hybrid 371	114.2	109.0	4.55	21.3	79.5	106.1	110.2	109.2
7	*Moewa Hybrid 22	111.1	106.6	4.05	22.2	83.0	110.8	107.8	108.6
7	*Illinois Hybrid 570	108.0	106.1	1.76	21.1	83.5	112.6	107.3	108.6
7	*Illinois Hybrid 754	107.6	105.1	2.32	21.7	86.5	115.5	106.3	108.6
8	*Illinois Hybrid 936	106.0	103.9	1.98	22.7	89.0	118.8	105.1	108.5
9	*Pioneer Hi-Bred 3010	106.1	101.8	4.05	22.4	87.0	116.2	103.0	106.3
10	*Moewa Hybrid 32	114.1	108.7	4.73	23.9	71.0	94.8	109.9	106.1
11	*Illinois Hybrid 372	107.0	104.5	2.34	20.5	79.0	105.5	105.7	105.7
12	*Moewa Hybrid 30	109.5	106.7	2.56	22.6	74.0	98.8	107.9	105.6
12	*Moewa Hybrid 24	107.8	105.3	2.32	22.4	77.0	102.8	106.5	105.6
13	*Iowa Hybrid C. I.	103.8	98.4	5.20	21.4	88.0	117.5	99.5	104.0
14	*U. S. Hybrid 38	101.2	98.1	3.06	22.6	87.0	116.2	99.2	103.5
15	*U. S. Hybrid 44	107.0	95.4	10.84	23.7	88.0	117.5	96.5	101.8
16	*Indiana Hybrid 642	100.0	96.4	3.60	19.4	83.0	110.8	97.5	100.8
17	*Indiana Hybrid 620	101.1	95.1	5.93	20.5	85.0	113.5	96.2	100.5
18	*DeKalb Hybrid 97	97.7	96.4	1.33	21.1	81.0	108.1	97.5	100.2
19	*Pioneer Hi-Bred 2218A	95.3	86.1	9.65	21.4	90.0	120.2	87.1	95.4
20	*Illinois Hybrid 574	107.7	89.9	16.53	22.9	80.0	106.8	90.9	94.9
21	Pfister Hybrid 4857 (2d generation)	95.0	93.0	2.11	21.6	69.0	92.1	94.1	93.6
22	Funk Hybrid 225	99.0	94.2	4.85	24.1	65.5	87.4	95.3	93.3
	Average of division	106.8	101.9	4.59	21.9	82.3	110.2	103.1	105.0
	Average of all entries	104.0	98.9	4.90	21.6	74.9	.....	.....	.....

*Average of 5 plots instead of 10.

TABLE 23.—GRANVILLE, NORTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1935

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Illinois Hybrid 360.....	94.9	93.4	1.58	21.5	96.6	104.3	113.8	111.4
2	Illinois Hybrid 364.....	94.1	93.6	.53	20.3	93.2	100.6	114.0	110.7
3	Illinois Hybrid 360A.....	92.0	91.2	.87	20.6	97.1	104.9	111.1	109.6
4	Illinois Hybrid 366.....	91.1	90.6	.55	19.9	94.5	102.1	110.4	108.3
5	Pfister Hybrid 4857.....	89.0	88.1	1.01	19.8	93.8	101.3	107.3	105.8
6	Pfister Hybrid 584.....	87.0	86.2	.92	19.6	91.4	98.7	105.0	103.4
7	Illinois Hybrid 172.....	85.0	84.3	.82	20.3	96.9	104.6	102.7	103.2
8	Funk Hybrid 220.....	83.3	82.3	1.20	20.6	94.1	101.6	100.2	100.6
9	Illinois Hybrid 384.....	82.2	81.4	.97	19.9	97.0	104.8	99.1	100.5
10	Iowa Hybrid 13.....	86.2	83.4	3.25	20.6	87.6	94.6	101.6	99.9
11	Iowa Hybrid 939.....	83.2	80.6	3.13	20.9	96.0	103.7	98.2	99.6
12	Iowa Hybrid 942.....	82.6	81.8	.97	19.8	90.3	97.5	99.6	99.1
13	Iowealth Hybrid B.....	83.8	79.6	5.01	21.4	96.2	103.9	97.0	98.7
14	Funk Hybrid 214.....	79.8	79.1	.88	20.7	97.1	104.9	96.3	98.5
15	M. W. Hybrid 111.....	81.6	79.8	2.21	20.0	94.5	102.1	97.2	98.4
16	Funk Hybrid 208.....	79.2	78.4	1.01	21.1	94.9	102.5	95.5	97.3
16	Funk Hybrid 206.....	79.0	78.2	1.01	21.4	94.9	103.5	95.2	97.3
17	Pioneer Hi-Bred 306.....	83.6	80.4	3.83	21.1	86.7	93.6	97.9	96.8
18	Funk Hybrid 215.....	78.3	77.4	1.15	22.0	94.3	101.8	94.3	96.2
19	M. W. Hybrid 105.....	79.9	76.2	4.63	19.5	93.6	101.1	92.8	94.9
20	M. W. Hybrid 106.....	78.8	76.2	3.30	19.8	93.4	100.9	92.8	94.8
21	Iowealth Hybrid C.....	81.1	76.4	5.80	22.7	92.1	99.5	93.1	94.7
22	Hulting Yellow Dent.....	80.7	78.9	2.23	21.3	82.6	89.2	96.1	94.4
23	Pioneer Hi-Bred 311A.....	78.9	74.6	5.45	19.8	96.4	104.1	90.9	94.2
24	M. W. Hybrid 104.....	77.9	76.4	1.93	19.9	89.6	96.8	93.1	94.0
25	M. W. Hybrid 138.....	76.6	73.3	4.31	20.3	94.2	101.7	89.3	92.4
26	Pioneer Hi-Bred 311.....	77.9	72.6	6.80	20.0	95.9	103.6	88.4	92.2
27	McKeighan Yellow Dent.....	76.5	74.9	2.09	22.6	87.0	94.0	91.2	91.9
28	Queen of the Field.....	77.3	76.3	1.29	20.7	81.0	87.5	92.9	91.6
●	Average of 5 best open-pollinated var.....	78.2	76.7	1.92	21.6	79.1	85.4	93.5	91.5
29	Original Krug.....	79.1	77.6	1.90	22.1	73.8	79.7	94.5	90.8
30	Community composite (Semesan Jr.).....	75.7	74.2	1.98	20.7	80.5	86.9	90.4	89.5
31	Roeschley Yellow Dent.....	77.4	76.0	1.81	20.1	71.1	76.8	92.6	88.7
32	Community composite (untreated).....	74.8	73.3	2.01	21.8	79.8	86.2	89.3	88.5
33	Community composite (Barbak).....	74.9	73.4	2.00	21.4	78.7	85.0	89.4	88.3
	Average of division.....	81.9	80.0	2.32	20.7	90.8	97.8	87.4	97.5
Experimental division—entries not in commercial production									
1	*U. S. Hybrid 38.....	95.2	94.5	.74	20.8	94.8	102.4	115.1	111.9
2	*Illinois Hybrid 960.....	96.5	95.1	1.45	22.0	92.2	99.6	115.8	111.8
3	*Iowa Hybrid 3110.....	95.8	94.2	1.67	21.4	95.2	102.8	114.7	111.7
4	*Illinois Hybrid 936.....	93.9	93.3	.64	21.6	97.8	105.6	113.6	111.6
5	*Moews Hybrid 32.....	95.0	94.4	.63	22.0	93.0	100.4	115.0	111.4
6	*Illinois Hybrid 371.....	91.0	90.5	.55	20.3	96.7	104.4	110.2	108.8
6	*Iowealth Hybrid C. I.....	93.1	90.3	3.01	21.6	97.2	105.0	110.0	108.8
7	*U. S. Hybrid 44.....	91.2	89.7	1.64	21.6	97.6	105.4	109.3	108.3
8	*Indiana Hybrid 642.....	89.9	89.1	.89	19.6	96.4	104.1	108.5	107.4
9	*Moews Hybrid 22.....	93.0	89.2	4.09	21.4	95.4	103.0	108.6	107.2
10	*Illinois Hybrid 570.....	87.9	87.5	.46	19.9	97.4	105.2	106.6	106.3
11	*Illinois Hybrid 571.....	86.7	86.2	.58	22.0	97.4	105.2	105.0	105.1
12	*Moews Hybrid 30.....	85.1	83.8	1.53	20.7	94.4	101.9	102.1	102.1
13	*Illinois Hybrid 574.....	86.7	84.4	2.65	21.8	92.2	99.6	102.8	102.0
14	Illinois Hybrid 754.....	83.9	82.8	1.31	22.2	97.0	104.8	100.9	101.9
15	Illinois Hybrid 39.....	82.6	81.9	.85	22.0	98.3	106.2	99.8	101.4
16	*Illinois Hybrid 751.....	81.1	80.1	1.23	21.6	99.2	107.1	97.6	100.0
17	*DeKalb Hybrid 97.....	81.9	81.2	.85	20.5	95.4	103.0	98.9	99.9
18	*Indiana Hybrid 620.....	81.1	80.2	1.11	21.5	95.8	103.5	97.7	99.2
19	*Pioneer Hi-Bred 3010.....	87.2	81.1	6.70	22.2	92.0	99.4	98.8	99.0
19	Illinois Hybrid 372.....	80.4	79.6	1.00	21.0	97.2	105.0	97.0	99.0
20	*Moews Hybrid 24.....	76.6	74.9	2.22	22.2	97.2	105.0	91.2	94.7
21	Funk Hybrid 225.....	78.0	76.1	2.44	22.8	90.5	97.7	92.7	94.0
22	Pfister Hybrid 4857 (2d generation).....	75.6	74.8	1.06	19.6	91.2	98.5	91.1	93.0
23	*Pioneer Hi-Bred 2218A.....	74.9	71.3	4.81	21.6	93.4	100.9	86.8	90.3
	Average of division.....	86.6	85.0	1.85	21.4	95.4	103.1	99.0	103.5
	Average of all entries.....	83.9	82.1	2.15	21.0	92.7	....	....	....

*Average of 5 plots instead of 10.

TABLE 24.—DWIGHT, NORTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1935

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Regular division—entries in commercial production									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	Illinois Hybrid 360.....	113.8	111.8	1.76	20.2	91.2	104.9	110.9	109.4
2	Illinois Hybrid 364.....	114.9	111.8	2.70	19.6	89.8	103.3	110.9	109.0
3	Illinois Hybrid 384.....	111.1	110.5	1.54	19.2	92.0	105.9	109.6	108.7
3	Illinois Hybrid 366.....	112.8	110.3	2.22	19.2	92.6	106.6	109.4	108.7
4	Pfister Hybrid 4857.....	112.5	110.0	2.22	18.6	89.5	103.0	109.1	107.6
5	Illinois Hybrid 172.....	108.3	106.5	1.66	18.6	88.9	102.3	105.7	104.9
6	Illinois Hybrid 360A.....	107.6	105.3	2.14	19.6	91.2	104.9	104.5	104.6
7	Pfister Hybrid 584.....	106.6	103.6	2.81	19.6	88.2	101.5	102.8	102.5
8	M. W. Hybrid 105.....	105.2	102.4	2.66	17.9	89.4	102.9	101.6	101.9
9	Iowa Hybrid 939.....	103.2	98.8	4.26	19.2	94.4	108.6	98.0	100.7
10	Iowa Hybrid 13.....	109.7	102.0	7.02	19.6	85.8	98.7	101.2	100.6
11	Funk Hybrid 220.....	101.1	100.4	.69	19.9	89.2	102.6	99.6	100.4
12	Funk Hybrid 215.....	100.4	99.2	1.20	19.1	91.0	104.7	98.4	100.0
13	M. W. Hybrid 106.....	101.9	99.1	2.75	18.6	90.5	104.1	98.3	99.8
14	M. W. Hybrid 104.....	101.1	98.0	3.07	18.7	90.4	104.0	97.2	98.9
15	Funk Hybrid 208.....	100.0	98.7	1.30	19.6	88.2	101.5	97.9	98.8
16	M. W. Hybrid 111.....	101.4	98.7	2.66	17.9	87.1	100.2	97.9	98.5
17	Iowaleth Hybrid B.....	99.4	95.9	3.52	20.3	92.8	106.8	95.1	98.0
18	Pioneer Hi-Bred 311A.....	105.6	93.6	11.36	18.0	94.0	108.2	92.9	96.7
19	Funk Hybrid 206.....	96.9	95.6	1.34	20.9	88.1	101.4	94.8	96.5
20	Pioneer Hi-Bred 306.....	107.3	100.6	6.24	18.7	74.1	85.3	99.8	96.2
21	Funk Hybrid 214.....	98.0	96.7	1.33	20.0	83.8	96.4	95.9	96.0
22	Iowa Hybrid 942.....	103.2	93.9	9.01	18.6	90.0	103.6	93.2	95.8
22	Iowaleth Hybrid C.....	96.6	93.3	3.42	20.3	91.4	105.2	92.6	95.8
23	Hulthig Yellow Dent.....	100.7	96.9	3.77	19.6	81.9	94.2	96.1	95.6
24	M. W. Hybrid 138.....	94.2	91.7	2.65	18.6	90.4	104.0	91.0	94.3
25	McKeighan Yellow Dent.....	98.7	95.2	3.55	21.1	75.7	87.1	94.4	92.6
26	Pioneer Hi-Bred 311.....	91.8	86.3	5.99	17.9	91.4	105.2	85.6	90.5
●	Average of 5 best open-pollinated var.....	98.7	95.1	3.65	20.5	68.2	78.4	94.3	90.3
27	Roeschley Yellow Dent.....	99.7	94.7	5.02	20.2	63.0	72.5	93.9	88.6
28	Original Krug.....	98.0	95.6	2.45	20.9	59.0	67.9	94.8	88.1
29	Community composite (Semesan Jr.).....	95.9	92.2	3.86	20.0	65.6	75.5	91.5	87.5
30	Mummert-Hahn Dent.....	96.6	92.9	3.83	20.9	61.2	70.4	92.2	86.8
31	Community composite (untreated).....	90.0	86.5	3.89	20.0	66.1	76.1	85.8	83.4
32	Queen of the Field.....	84.5	82.9	1.89	18.7	72.4	83.3	82.2	82.5
33	Community composite (Barbak).....	90.0	86.5	3.89	20.0	53.9	68.2	85.8	81.4
	Average of division.....	101.7	98.2	3.44	18.9	83.5	93.2	97.4	97.2
Experimental division—entries not in commercial production									
1	*Illinois Hybrid 960.....	123.9	119.8	3.31	20.0	88.6	102.0	118.8	114.6
2	*Moewa Hybrid 32.....	119.7	117.6	1.75	20.2	88.4	101.7	116.7	113.0
3	*U. S. Hybrid 38.....	116.3	113.1	2.75	19.6	93.6	107.7	112.2	111.1
4	*Iowaleth Hybrid C. I. 1.....	114.5	110.5	3.49	22.8	99.0	113.9	109.6	110.7
5	Illinois Hybrid 570.....	113.9	111.4	2.19	19.6	92.1	106.0	110.5	109.4
6	*Moewa Hybrid 22.....	113.5	111.5	1.76	21.1	89.0	102.4	110.6	108.6
7	*Illinois Hybrid 751.....	109.4	107.4	1.83	19.9	95.4	109.8	106.5	107.3
7	*Illinois Hybrid 936.....	109.4	107.1	2.10	20.0	96.2	110.7	106.2	107.3
8	Illinois Hybrid 574.....	111.4	109.9	1.35	20.0	88.0	101.3	109.0	107.1
9	*Iowa Hybrid 3110.....	111.4	108.3	2.78	19.6	90.6	104.3	107.4	106.6
10	Illinois Hybrid 371.....	112.1	108.3	3.39	19.6	90.2	103.8	107.4	106.5
11	*U. S. Hybrid 44.....	104.5	103.4	1.05	20.3	98.0	112.8	102.6	105.2
12	Illinois Hybrid 754.....	108.3	105.6	2.49	19.2	88.7	102.1	104.8	104.1
13	*Moewa Hybrid 24.....	107.3	104.9	2.24	19.1	89.2	102.6	104.1	103.7
13	Illinois Hybrid 372.....	105.2	103.0	2.09	19.1	94.0	108.2	102.2	103.7
14	*Indiana Hybrid 642.....	104.5	102.4	2.01	18.7	95.0	109.3	101.6	103.5
15	*Moewa Hybrid 30.....	105.2	103.6	1.52	20.0	91.0	104.7	102.8	103.3
16	*Indiana Hybrid 620.....	104.5	100.6	3.73	19.3	95.0	109.3	99.8	102.2
17	*Pioneer Hi-Bred 3010.....	102.8	99.1	3.60	20.9	98.0	112.8	98.3	101.9
18	*Iowaleth Hybrid C. I. 2.....	100.4	96.9	3.49	20.9	100.0	115.1	96.1	100.9
19	Funk Hybrid 225.....	103.2	101.7	1.45	21.0	84.7	97.5	100.9	100.1
20	*Illinois Hybrid 571.....	101.8	100.5	1.28	20.2	85.0	97.8	99.7	99.2
21	*DeKalb Hybrid 97.....	94.2	92.2	2.12	19.5	97.8	112.5	91.5	96.8
22	*Pioneer Hi-Bred 2218A.....	93.8	83.1	11.41	20.5	90.0	103.6	82.4	87.7
23	Pfister Hybrid 4857 (2d generation).....	90.0	87.6	2.67	19.1	74.0	85.2	86.9	86.5
	Average of division.....	107.2	104.4	2.61	20.0	91.7	105.4	103.5	99.9
	Average of all entries.....	104.0	100.8	3.08	19.3	86.9	.....	.....	.....

*Average of 5 plots instead of 10.

TABLE 25.—ADAIR, CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1935

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Illinois Hybrid 384.....	86.2	85.9	.35	20.7	87.9	133.3	104.4	111.6
2	Illinois Hybrid 380A.....	99.6	97.1	2.51	20.8	53.0	80.4	118.0	108.6
2	Funk Hybrid 220L.....	86.7	86.2	.58	21.2	79.3	120.3	104.7	108.6
3	Illinois Hybrid 380.....	94.3	91.5	2.97	20.8	58.8	89.2	111.2	105.7
4	Pfister Hybrid 4857.....	94.3	93.8	.53	19.8	48.0	72.8	114.0	103.7
5	Pioneer Hi-Bred 307A.....	82.7	80.5	2.66	20.5	79.3	120.3	97.8	103.4
6	Iowa Hybrid 13.....	88.6	85.8	3.16	20.8	60.7	92.0	104.3	101.2
6	Illinois Hybrid 172.....	87.8	87.0	.91	20.1	57.9	87.8	105.7	101.2
7	Pioneer Hi-Bred 311.....	81.0	78.3	3.33	18.4	77.9	118.1	95.1	100.9
8	Illinois Hybrid 543.....	86.1	85.8	.35	22.3	56.5	85.7	104.3	99.7
9	Pfister Hybrid 584.....	92.4	90.1	2.49	20.4	46.0	69.8	109.5	99.6
10	Funk Hybrid 220.....	79.6	78.2	1.76	22.5	72.9	110.6	95.0	98.9
11	Pioneer Hi-Bred 306.....	87.4	86.3	1.26	19.7	47.0	71.3	104.9	96.5
12	Pioneer Hi-Bred 311A.....	81.3	78.5	3.44	18.0	53.3	80.8	95.4	91.8
13	McKeighan Yellow Dent.....	75.1	73.9	1.60	23.8	61.4	93.1	89.8	90.6
14	Original Krug.....	81.8	80.2	1.96	22.3	45.7	69.3	97.4	90.4
15	Funk Hybrid 206.....	72.8	71.5	1.79	23.7	62.9	95.4	86.9	89.0
16	Doubet Yellow Dent.....	75.6	74.2	1.85	21.6	55.7	84.5	90.2	88.8
●	Average of 5 best open-pollinated var...	76.2	75.0	1.57	22.9	51.3	77.7	91.1	87.8
17	Funk Hybrid 208.....	76.0	75.2	1.05	22.1	50.5	76.6	91.4	87.7
18	Mountjoy Utility Dent.....	74.6	73.9	.94	23.5	50.0	75.8	89.8	86.3
19	Stanton Yellow Dent.....	73.7	72.7	1.36	23.1	43.5	66.0	88.3	82.7
20	Herdon Yellow Dent.....	74.8	73.3	2.01	22.8	34.0	51.6	89.1	79.7
21	Hoblit Golden Eagle.....	70.7	69.7	1.41	22.5	42.0	63.7	84.7	79.5
22	Stiegelmeier Improved Dent.....	65.8	64.2	2.43	24.5	43.6	66.1	78.0	75.0
23	Sommer Yellow Dent.....	69.9	66.5	4.86	26.5	36.0	54.6	80.8	74.3
	Average of division.....	81.6	80.0	1.96	21.7	56.2	85.2	97.2	94.2

TABLE 25.—*Concluded*

Experimental division—entries not in commercial production									
1	*U. S. Hybrid 44	93.6	93.1	.53	21.9	75.0	113.7	113.1	113.3
2	Illinois Hybrid 546	90.4	89.4	1.11	22.8	82.6	125.3	108.6	112.8
3	*Illinois Hybrid 960	99.3	95.9	3.42	23.1	66.3	100.5	116.5	112.5
4	*Illinois Hybrid 729	88.1	86.8	1.48	20.3	86.7	131.5	105.5	112.0
5	*Illinois Hybrid 737	86.8	85.5	1.50	22.3	88.8	134.7	103.9	111.6
6	*U. S. Hybrid 38	87.9	87.2	.80	21.7	83.3	126.3	106.0	111.1
7	*U. S. Hybrid 33	89.6	88.4	1.34	21.7	78.8	119.5	107.4	110.4
8	*Iowa Hybrid 3110	90.7	90.1	.66	22.3	74.3	112.7	109.5	110.3
9	*Illinois Hybrid 371	91.4	89.9	1.64	21.0	75.0	113.7	109.2	110.3
8	*Illinois Hybrid 710	93.3	91.3	2.14	24.8	70.0	106.2	110.9	109.7
10	*Illinois Hybrid 793	87.9	86.4	1.71	25.3	81.3	123.3	105.0	109.6
11	*Indiana Hybrid 634	85.1	84.9	.24	20.8	83.0	125.9	103.2	108.9
12	Illinois Hybrid 754	85.7	85.2	.58	22.5	82.1	124.5	103.5	108.8
13	*Pioneer Hi-Bred 2088	86.6	85.0	2.07	19.7	80.0	121.3	103.3	107.8
14	*U. S. Hybrid 57	86.8	85.9	1.04	22.8	76.7	116.3	104.4	107.4
14	*Illinois Hybrid 775	79.9	78.7	1.25	20.4	91.7	139.1	96.8	107.4
15	Illinois Hybrid 760	90.4	88.9	1.66	21.4	69.3	105.1	108.0	107.3
16	*Pioneer Hi-Bred 2111	86.4	83.6	3.24	22.3	81.3	123.3	101.6	107.0
17	*Illinois Hybrid 372	81.4	80.1	1.60	21.7	88.8	134.7	97.3	106.7
18	*Illinois Hybrid 934	83.0	82.0	1.20	22.5	83.3	126.3	99.6	106.3
18	Illinois Hybrid 936	84.9	83.8	1.30	22.3	78.9	119.6	101.8	106.3
19	*Indiana Hybrid 631	81.9	81.1	.98	24.0	83.3	126.3	98.5	105.5
20	*Indiana Hybrid 666	89.8	86.4	3.79	21.9	71.0	106.6	105.0	105.4
21	Funk Hybrid 207	86.1	84.4	1.97	24.5	74.3	112.7	102.6	105.1
22	*Illinois Hybrid 39	79.7	79.3	.50	23.5	86.3	130.9	96.4	105.0
22	Indiana Hybrid 643	89.0	88.5	.56	20.8	84.3	97.5	107.5	105.0
23	*Illinois Hybrid 46	81.4	79.6	2.21	19.5	83.3	126.3	96.7	104.1
24	*Pioneer Hi-Bred 2011	87.2	86.3	1.03	21.1	65.7	99.6	104.9	103.6
24	Indiana Hybrid 632	79.3	77.7	2.02	24.3	86.4	131.0	94.4	103.6
25	*Illinois Hybrid 579	90.9	88.5	2.64	24.3	57.5	87.2	107.5	102.4
26	*Illinois Hybrid 764	85.3	84.0	1.52	22.5	67.5	102.4	102.1	102.2
27	*Illinois Hybrid 574	84.9	82.4	2.94	22.7	70.0	106.2	100.1	101.6
28	Illinois Hybrid 391	86.4	85.2	1.39	24.5	59.3	89.9	103.5	100.1
28	*Illinois Hybrid 765	80.8	80.0	.99	21.1	71.7	108.7	97.2	100.1
29	*Iowa Hybrid 3045	86.3	83.9	2.78	24.5	61.3	93.0	101.9	99.7
30	*Ohio Hybrid 6	80.6	77.7	3.60	20.7	75.0	113.7	94.4	99.2
31	*Iowa Hybrid 3065	91.2	89.3	2.08	21.4	46.7	70.8	108.5	99.1
32	*Illinois Hybrid 753	86.3	85.4	1.04	24.8	53.3	80.8	103.8	98.1
33	*Ohio Hybrid 7	87.0	83.7	3.79	23.5	56.7	86.0	101.7	97.8
34	*Pfister Hybrid 3258	88.7	86.4	2.59	23.0	50.0	75.8	105.0	97.7
35	*Illinois Hybrid 539	78.6	76.6	2.54	24.1	72.5	109.9	93.1	97.3
36	*Pioneer Hi-Bred 2215A	79.7	73.0	8.41	20.7	80.0	121.3	88.7	96.9
37	*Illinois Hybrid 54	76.3	75.0	1.70	24.3	73.8	111.9	91.1	96.3
38	Indiana Hybrid 819	81.8	79.9	2.32	23.0	58.3	88.4	97.1	94.9
39	*Indiana Hybrid 651	80.0	79.3	.88	22.5	56.7	86.0	96.4	93.8
40	*Illinois Hybrid 508	71.5	70.3	1.68	21.9	76.7	116.3	85.4	93.1
41	*Indiana Hybrid 650	75.4	72.9	3.32	26.3	68.8	104.3	88.6	92.5
42	*Ohio Hybrid 8	84.6	83.6	1.18	22.3	37.5	56.9	101.6	90.4
43	Funk Hybrid 225	80.4	79.5	1.12	23.1	44.0	66.7	96.6	89.1
44	*Indiana Hybrid 820	74.1	71.6	3.37	26.9	62.5	94.8	87.0	89.0
	Average of division	85.1	83.5	1.88	22.6	71.8	108.9	101.5	103.4
	Average of all entries	83.9	82.3	1.91	22.3	66.6	....	....	....

*Average of 4 plots instead of 8.

TABLE 26.—BELLFLOWER, CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1935

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Illinois Hybrid 360.....	80.4	80.0	.50	21.1	83.0	111.3	111.0	111.1
2	Illinois Hybrid 360A.....	79.2	78.4	1.01	20.5	83.0	111.3	108.7	109.4
3	Pfister Hybrid 4857.....	77.7	77.3	.51	20.3	77.5	105.9	107.2	106.4
4	Pfister Hybrid 584.....	78.1	77.7	.51	20.2	74.5	100.0	107.8	105.9
5	Pioneer Hi-Bred 311.....	74.0	73.3	.95	18.0	84.5	113.3	101.7	104.6
6	Illinois Hybrid 543.....	75.3	74.1	1.59	21.9	81.0	108.6	102.8	104.3
7	Illinois Hybrid 384.....	71.1	70.5	.84	19.8	87.5	117.3	97.8	102.7
8	Illinois Hybrid 172.....	72.3	70.6	2.35	19.7	80.0	107.2	97.9	100.2
9	Funk Hybrid 214.....	70.0	69.2	1.14	21.9	80.5	107.9	96.0	99.0
10	Pioneer Hi-Bred 307A.....	73.4	72.5	1.23	20.5	70.0	93.8	100.6	98.9
11	Pioneer Hi-Bred 306.....	73.9	71.1	3.79	19.2	69.0	92.5	98.6	97.1
12	Funk Hybrid 220.....	68.6	68.4	.29	21.1	76.5	102.5	94.9	96.8
13	Pioneer Hi-Bred 311A.....	68.5	65.6	4.23	19.6	82.0	109.9	91.0	95.7
14	Funk Hybrid 220L.....	66.7	65.9	1.20	19.6	80.5	107.9	91.4	95.5
15	Funk Hybrid 206.....	67.3	66.4	1.34	22.3	77.5	103.9	92.1	95.1
16	Iowa Hybrid 13.....	76.9	72.2	6.11	21.1	54.5	73.1	100.1	93.4
17	Funk Hybrid 208.....	63.0	62.5	.79	20.6	74.0	99.2	86.7	89.8
18	McKeighan Yellow Dent.....	67.0	64.7	3.43	22.7	64.5	86.5	89.7	89.9
19	Station Yellow Dent.....	66.7	65.3	2.10	22.5	58.0	77.7	90.6	87.4
20	Original Krug.....	68.1	66.8	1.91	21.3	50.5	67.7	92.6	86.4
●	Average of 5 best open-pollinated var... Warsaw Krug.....	66.3	64.9	2.11	22.4	55.7	74.7	90.0	86.2
21	Warsaw Krug.....	66.1	65.6	.76	22.5	48.0	64.3	91.0	84.3
22	Tiemann Yellow Dent.....	63.7	62.0	2.67	23.1	57.5	77.1	86.0	83.8
23	Ropp Yellow Dent.....	67.6	64.2	5.03	22.7	47.0	63.0	89.0	82.5
24	Mountjoy Utility Dent.....	64.7	63.7	1.55	23.8	45.5	61.0	88.3	81.5
25	Stiegelmeier Improved Dent.....	61.4	57.1	7.00	24.7	39.5	52.9	79.2	72.6
	Average of division.....	70.5	69.0	2.13	21.2	69.0	92.6	95.7	94.9
Experimental division—entries not in commercial production									
1	*U. S. Hybrid 44.....	87.7	86.3	1.60	22.0	85.0	113.9	119.7	118.3
2	*Illinois Hybrid 960.....	86.4	84.2	2.55	20.8	75.0	100.5	116.8	112.7
3	*Iowa Hybrid 3110.....	82.3	81.6	.85	20.3	82.0	110.0	113.2	112.4
4	*Illinois Hybrid 729.....	79.4	78.4	1.26	20.2	91.0	122.0	108.7	112.0
5	*Illinois Hybrid 793.....	84.8	82.6	2.59	20.3	76.0	101.9	114.6	111.4
6	*U. S. Hybrid 57.....	81.1	78.2	3.58	21.2	85.0	113.9	108.5	109.9
7	*Pioneer Hi-Bred 2088.....	78.0	76.8	1.54	19.9	89.0	119.3	106.5	109.7
8	*U. S. Hybrid 38.....	79.4	77.7	2.14	22.3	85.2	114.2	107.8	109.4
9	*Illinois Hybrid 775.....	78.5	76.5	2.55	21.6	89.0	119.3	106.1	109.4
10	*Illinois Hybrid 754.....	81.5	80.2	1.60	21.9	71.0	95.2	111.2	107.2
11	*Illinois Hybrid 934.....	76.3	74.9	1.83	22.1	87.0	116.6	103.9	107.1
12	*Indiana Hybrid 631.....	78.4	75.7	3.44	19.8	84.0	112.6	105.0	106.9
13	*Illinois Hybrid 753.....	81.1	79.8	1.60	24.3	71.0	95.2	110.7	106.8
14	*Illinois Hybrid 46.....	75.9	74.0	2.50	19.5	87.0	116.6	102.6	106.1
15	Illinois Hybrid 936.....	76.2	75.4	1.05	21.1	81.0	108.6	104.6	105.6
16	*Pioneer Hi-Bred 2111.....	76.2	75.4	1.05	20.1	78.0	104.6	104.6	104.6
17	*Illinois Hybrid 737.....	73.6	72.7	1.22	20.4	85.0	113.9	100.8	104.1
18	*Ohio Hybrid 8.....	75.2	73.6	2.12	20.8	80.0	107.2	102.1	103.4
19	Illinois Hybrid 546.....	72.7	70.7	2.75	22.7	88.5	118.6	98.1	103.2
20	*Pfister Hybrid 3258.....	79.3	78.5	1.01	21.7	64.0	85.8	108.9	103.1
21	*Indiana Hybrid 634.....	75.4	73.7	2.25	21.7	79.0	105.9	102.2	103.1
22	Indiana Hybrid 632.....	75.4	71.6	5.04	21.3	85.5	114.6	99.3	103.1
23	Funk Hybrid 207.....	76.9	75.3	2.08	21.9	74.0	99.2	104.4	103.1
24	*Pioneer Hi-Bred 2011.....	74.2	70.7	4.72	21.7	88.0	118.0	98.1	103.1
25	Indiana Hybrid 643.....	77.9	76.0	2.44	21.3	70.5	94.5	105.4	102.7
26	*Illinois Hybrid 371.....	72.7	71.8	1.24	20.8	83.0	111.3	99.6	102.5
27	Illinois Hybrid 754.....	72.2	71.4	1.11	21.7	83.5	111.9	99.0	102.2
28	Illinois Hybrid 710.....	76.5	74.4	2.75	24.8	73.5	98.5	103.2	102.0
29	*Iowa Hybrid 3045.....	79.7	75.4	5.40	22.3	68.0	91.2	104.6	101.3
30	*U. S. Hybrid 33.....	72.7	71.6	1.51	22.3	76.0	101.9	99.3	100.0
31	*Pioneer Hi-Bred 2215A.....	72.8	70.2	3.57	21.7	80.0	107.2	97.4	99.9
32	*Indiana Hybrid 819.....	71.5	68.4	4.34	24.0	84.0	112.6	94.9	99.3
33	*Illinois Hybrid 579.....	79.4	75.5	4.91	23.5	61.0	81.8	104.7	99.0
34	*Iowa Hybrid 3065.....	72.6	70.3	3.17	21.1	77.0	103.2	97.5	98.9
35	*Illinois Hybrid 372.....	68.8	68.5	.44	18.7	82.0	109.9	95.0	98.7

TABLE 26.—*Concluded*

Experimental division— <i>concluded</i>									
31	Illinois Hybrid 760.....	75.2	71.4	5.05	22.5	72.0	96.5	99.0	98.4
32	*Illinois Hybrid 508.....	70.5	67.8	3.83	23.8	83.0	111.3	94.0	98.3
33	*Indiana Hybrid 820.....	76.6	74.4	2.87	24.0	62.0	83.1	103.2	98.2
34	Illinois Hybrid 391.....	76.6	74.1	3.26	22.5	62.5	83.8	102.8	98.1
34	*Illinois Hybrid 765.....	70.7	69.8	1.27	22.1	76.0	101.9	96.8	98.1
35	*Illinois Hybrid 764.....	76.3	73.8	3.28	22.8	63.0	84.5	102.4	97.9
36	*Illinois Hybrid 54.....	70.9	69.4	2.12	22.5	75.0	100.5	96.3	97.4
37	*Illinois Hybrid 39.....	67.6	67.0	.89	22.2	82.0	109.9	92.9	97.2
38	Funk Hybrid 225.....	74.7	72.8	2.54	23.0	62.5	83.8	101.0	96.7
38	Stiegelmeier Hybrid 2.....	70.5	69.8	.99	22.3	68.0	96.2	96.8	96.7
39	*Ohio Hybrid 7.....	71.5	68.9	3.64	22.1	70.0	93.8	95.6	95.2
40	*Indiana Hybrid 666.....	68.9	64.5	6.39	22.8	81.0	108.6	89.5	94.3
41	*Ohio Hybrid 6.....	64.4	63.0	2.17	19.2	75.0	100.5	87.4	90.7
42	*Illinois Hybrid 539.....	64.1	62.0	3.28	21.6	64.0	85.8	86.0	86.0
	Average of division.....	75.5	73.6	2.52	21.7	77.4	103.9	102.1	102.6
	Average of all entries.....	73.8	72.1	2.30	21.6	74.6	.....	.....	.....

*Average of 5 plots instead of 10.

TABLE 27.—ARMSTRONG, CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1935

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	Illinois Hybrid 360.....	104.7	104.2	.48	19.8	76.5	133.0	111.0	116.5
2	Illinois Hybrid 384.....	97.9	96.7	1.23	20.2	87.0	151.3	103.0	115.1
3	Illinois Hybrid 360A.....	104.4	103.6	.77	20.9	64.5	112.2	110.3	110.8
4	Illinois Hybrid 172.....	96.0	94.7	1.35	19.0	80.5	140.0	100.9	110.7
5	Pfister Hybrid 4857.....	96.8	95.1	1.76	20.8	68.5	119.1	101.3	105.8
6	Pfister Hybrid 584.....	97.2	95.2	2.06	20.2	63.5	110.4	101.4	103.7
7	Pioneer Hi-Bred 311A.....	94.7	91.1	3.80	19.5	67.5	117.4	97.0	102.1
8	Pioneer Hi-Bred 311.....	93.5	91.5	2.14	19.0	65.0	113.1	97.4	101.3
9	Illinois Hybrid 543.....	93.5	92.2	1.39	23.0	62.0	107.8	98.2	100.6
10	Pioneer Hi-Bred 306.....	97.7	94.2	3.58	20.8	56.5	98.3	100.3	99.8
11	Funk Hybrid 220.....	93.9	92.3	1.70	21.8	57.0	99.1	98.3	98.5
12	Funk Hybrid 206.....	89.7	88.0	1.90	22.0	63.0	109.6	93.7	97.7
13	Funk Hybrid 220L.....	92.5	89.4	3.35	22.9	59.5	103.5	95.2	97.3
14	Iowa Hybrid 13.....	96.1	91.4	4.89	21.0	54.5	94.8	97.3	96.7
15	Pioneer Hi-Bred 307A.....	96.3	93.8	2.60	20.9	46.0	80.0	99.9	94.9
16	Funk Hybrid 208.....	88.6	85.5	3.50	22.8	57.0	99.1	91.1	93.1
17	McKeighan Yellow Dent.....	86.3	84.0	2.67	26.2	45.0	78.3	89.5	86.7
17	Illinois Hybrid 391.....	94.2	87.6	7.01	26.0	38.5	67.0	93.3	86.7
18	Station Yellow Dent.....	88.4	85.6	3.17	23.4	39.0	67.8	91.2	85.4
	● Average of 5 best open-pollinated var.....	87.6	85.6	2.28	23.7	35.9	62.5	91.2	84.0
19	Original Krug.....	88.3	87.4	1.02	21.8	32.0	55.7	93.1	83.8
19	Heckerson Yellow Dent.....	87.9	86.7	1.37	23.7	33.5	58.3	92.3	83.8
20	Community Composite.....	85.8	82.7	3.61	23.2	37.5	65.2	88.1	82.4
21	Mountjoy Utility Dent.....	87.1	84.4	3.10	23.2	30.0	52.2	89.9	80.5
22	Dewey Yellow Dent.....	79.4	77.8	2.02	23.0	38.0	66.1	82.9	78.7
23	Stiegelmeier Yellow Dent.....	82.6	78.2	5.33	27.0	28.5	49.6	83.3	74.9
24	Sommer Yellow Dent.....	82.6	77.3	6.42	25.2	20.0	34.8	82.3	70.4
	Average of division.....	92.2	89.6	2.82	22.2	52.7	91.7	95.5	94.5

(Table is concluded on next page)

TABLE 27.—ARMSTRONG, CENTRAL ILLINOIS—*Concluded*

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Experimental division—entries not in commercial production									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	*Illinois Hybrid 729	109.3	108.0	1.19	20.2	73.0	127.0	115.0	118.0
2	*Indiana Hybrid 651	107.7	106.5	1.11	19.9	74.0	128.7	113.4	117.2
3	*Illinois Hybrid 960	108.9	107.2	1.56	21.1	72.0	125.2	114.2	117.0
4	*Indiana Hybrid 650	104.9	102.3	2.48	23.4	79.0	137.4	108.9	116.0
5	*Illinois Hybrid 934	100.7	97.8	2.88	21.6	82.0	142.6	104.2	113.8
6	*U. S. Hybrid 44	106.8	105.4	1.31	20.8	68.0	118.3	112.2	113.7
7	*Illinois Hybrid 372	97.0	96.2	0.82	19.3	84.0	146.1	102.4	113.3
8	*Illinois Hybrid 793	105.0	102.0	2.86	22.6	70.0	121.8	108.6	111.9
9	*Illinois Hybrid 775	94.0	93.2	0.85	20.8	84.0	146.1	99.3	111.0
10	*Illinois Hybrid 371	99.5	98.7	0.80	20.7	73.0	127.0	105.1	110.6
11	*Pioneer Hi-Bred 2111	106.0	101.0	4.72	20.2	66.0	114.8	107.6	109.4
12	*U. S. Hybrid 57	105.7	104.1	1.51	21.8	60.0	104.3	110.9	109.3
13	Indiana Hybrid 632	96.6	95.1	1.55	20.5	75.5	131.3	101.3	108.8
14	*U. S. Hybrid 33	98.7	95.6	3.14	21.6	72.0	125.2	101.8	107.7
15	*Pioneer Hi-Bred 2088	101.7	100.3	1.38	19.1	63.0	109.6	106.8	107.5
15	*Illinois Hybrid 46	93.1	90.4	2.90	19.9	81.0	140.9	96.3	107.5
15	*Pioneer Hi-Bred 2011	98.9	96.4	2.53	21.5	70.0	121.7	102.7	107.5
15	*Illinois Hybrid 546	101.1	98.1	2.97	22.8	67.0	116.5	104.5	107.5
16	*U. S. Hybrid 38	94.4	92.9	1.59	21.8	73.0	127.0	98.9	105.9
17	*Iowa Hybrid 3065	100.1	98.4	1.70	18.7	62.0	107.8	104.8	105.6
18	*Pioneer Hi-Bred 2215A	98.1	94.5	3.67	20.6	68.0	118.3	100.6	105.0
19	*Illinois Hybrid 508	101.3	99.1	2.17	23.2	58.0	100.9	105.5	104.4
20	*Indiana Hybrid 634	100.5	97.7	2.79	22.2	58.0	100.9	104.0	103.2
21	*Illinois Hybrid 710	103.5	100.4	3.00	24.5	52.5	91.3	106.9	103.0
22	*Pfister Hybrid 3258	106.1	103.6	2.36	22.6	45.0	78.3	110.3	102.3
23	*Illinois Hybrid 936	94.4	92.4	2.12	21.5	65.0	113.1	98.4	102.1
24	*Indiana Hybrid 631	98.0	95.0	3.06	22.2	60.0	104.3	101.2	102.0
25	*Iowa Hybrid 3045	101.6	100.1	0.49	23.0	48.0	83.5	106.6	100.8
26	*Illinois Hybrid 754	93.4	91.5	2.03	20.9	63.0	109.6	97.4	100.5
27	*Indiana Hybrid 819	98.6	96.0	2.64	23.4	53.0	92.2	102.2	99.7
27	Indiana Hybrid 643	98.9	96.0	2.93	21.5	53.0	92.2	102.2	99.7
28	Funk Hybrid 207	106.9	102.8	3.84	19.0	40.0	69.6	109.5	99.5
29	*Illinois Hybrid 765	92.5	91.2	1.41	22.6	61.0	106.1	97.1	99.4
30	*Iowa Hybrid 3110	106.3	105.2	1.03	22.2	34.0	59.1	112.0	98.8
31	*Illinois Hybrid 753	98.6	96.3	2.33	22.2	50.0	87.0	102.6	98.7
32	*Ohio Hybrid 6	92.9	91.3	1.72	19.9	59.0	102.6	97.2	98.6
33	*Illinois Hybrid 760	95.2	93.9	1.37	22.6	54.0	93.9	100.0	98.5
34	*Ohio Hybrid 8	98.9	96.6	2.33	21.1	48.0	83.5	102.9	98.1
35	*Illinois Hybrid 737	87.9	86.2	1.93	23.0	65.0	113.0	91.8	97.1
36	*Illinois Hybrid 54	93.3	88.5	5.14	22.0	60.0	104.3	94.2	96.8
37	*Indiana Hybrid 820	91.6	90.7	0.98	21.8	54.0	93.9	96.6	95.9
38	*Illinois Hybrid 39	90.6	88.0	2.87	23.2	55.0	95.7	93.7	94.2
39	*Illinois Hybrid 574	98.3	93.4	4.98	23.5	44.0	76.5	99.5	93.8
40	Funk Hybrid 225	98.1	95.8	2.34	20.4	39.0	67.8	102.0	93.5
41	*Indiana Hybrid 666	93.3	90.7	2.79	23.2	46.0	80.0	96.6	92.5
42	*Illinois Hybrid 764	93.7	90.6	3.31	22.9	46.0	80.0	96.5	92.4
43	*Ohio Hybrid 7	88.2	82.9	6.01	23.2	48.0	83.5	88.3	87.1
44	*Illinois Hybrid 539	87.6	85.5	2.40	23.9	42.0	73.0	91.1	86.6
45	*Illinois Hybrid 579	94.7	89.5	5.49	27.1	24.0	41.7	95.3	81.9
	Average of division	98.6	96.2	2.43	21.9	60.0	104.4	102.5	103.0
	Average of all entries	96.4	93.9	2.59	22.0	57.5	.....	.....	.....

*Average of 5 plots instead of 10.

TABLE 28.—WINCHESTER, SOUTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1935

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General performance rating
		Total	Sound				Lodging resistance	Sound yield	
Regular division—entries in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Funk Hybrid 220L.....	76.0	75.6	.53	19.8	75.5	114.5	107.2	109.0
2	Wilson Yellow Dent.....	70.1	68.9	1.71	21.2	64.0	97.0	97.7	97.5
3	Rice White Dent.....	69.7	69.3	.57	20.7	61.0	92.5	98.2	96.8
4	Station Yellow Dent.....	67.4	67.1	.45	21.0	63.0	95.5	95.1	95.2
●	Average of 5 best open-pollinated var.....	69.7	68.6	1.58	21.3	57.6	87.3	97.3	94.8
5	Eversole White Dent.....	71.5	70.4	1.54	20.7	50.5	76.6	99.8	94.0
6	Canterbury Yellow Dent.....	69.6	67.5	3.02	22.7	49.5	75.0	95.7	90.5
7	Waddell Golden Dent.....	63.4	63.0	.63	21.6	60.5	91.7	89.3	89.9
8	Moore Yellow Dent.....	62.8	60.5	3.66	21.5	66.0	100.1	85.8	89.4
9	Shuman Golden Beauty.....	62.9	61.8	1.75	20.7	58.5	88.7	87.6	87.9
10	Waddell Utility Yellow Dent.....	63.9	63.7	.31	21.8	53.0	80.3	90.3	87.8
11	Waddell Big Democrat.....	60.6	59.9	1.16	22.7	55.5	84.1	84.9	84.7
12	Waddell Utility White Dent.....	60.5	59.7	1.32	21.8	35.0	53.1	84.6	76.7
	Average of division.....	66.5	65.6	1.35	21.3	57.7	87.4	93.0	91.6
Experimental division—entries not in commercial production									
1	Illinois Hybrid 960.....	90.6	90.0	.66	20.6	85.0	128.9	127.6	127.9
2	Illinois Hybrid 710.....	86.4	85.2	1.39	20.6	82.0	124.3	120.8	121.7
3	Illinois Hybrid 947.....	81.8	80.5	1.59	21.2	82.0	124.3	114.1	116.7
4	Illinois Hybrid 945.....	79.7	79.0	.88	20.1	83.0	125.8	112.0	115.5
5	Illinois Hybrid 39.....	77.4	76.7	.90	20.0	89.0	134.9	108.8	115.3
6	*Iowearth Hybrid CC.....	78.3	77.8	.64	20.4	83.0	125.8	110.3	114.2
7	Funk Hybrid 225.....	79.2	77.4	2.27	20.9	83.0	125.8	109.7	113.7
8	Illinois Hybrid 966.....	74.8	73.8	1.34	21.8	92.0	139.5	104.6	113.3
9	Illinois Hybrid 559.....	77.7	76.6	1.42	20.4	82.5	125.1	108.6	112.7
10	Funk Hybrid 207.....	77.4	76.5	1.16	22.0	79.0	119.8	108.4	111.3
11	Illinois Hybrid 54.....	80.2	79.0	1.50	20.6	71.5	108.4	112.0	111.1
12	Funk Hybrid 231.....	77.7	77.1	.77	21.0	74.5	112.9	109.3	110.2
13	Illinois Hybrid 538.....	75.8	75.5	.40	21.3	76.5	116.0	107.0	109.3
14	Illinois Hybrid 508.....	72.8	70.3	3.43	20.2	90.0	136.4	99.7	108.9
15	Illinois Hybrid 546.....	75.9	75.3	.79	21.0	74.5	112.9	106.7	108.3
16	Illinois Hybrid 51.....	76.4	75.7	.92	21.6	71.0	107.6	107.3	107.4
17	Golden Beauty X 4211.....	75.7	75.1	.79	20.6	66.0	100.1	106.5	104.9
18	Missouri Hybrid 51.....	78.2	76.9	1.66	22.4	54.4	82.5	109.0	102.4
19	Stiegelmeier Hybrid 3.....	67.4	67.0	.59	21.8	79.0	119.8	95.0	101.2
20	Illinois Hybrid 1074.....	65.6	64.9	1.07	22.2	77.5	117.5	92.0	98.4
21	Kansas Hybrid 5.....	74.4	73.6	1.08	22.4	53.0	80.3	104.3	98.3
22	Kansas Hybrid 3.....	67.3	65.3	2.97	23.2	68.0	103.1	92.6	95.2
23	Missouri Hybrid 11.....	69.0	67.0	2.90	22.9	61.0	92.5	95.0	94.4
24	Missouri Hybrid 19.....	69.1	65.6	5.07	23.0	62.0	94.0	93.0	93.3
25	Kansas Hybrid 6.....	71.3	69.6	2.39	22.9	49.5	75.0	98.7	92.8
26	*Waddell Utility White Dent X Indiana 33.....	69.3	68.4	1.30	21.2	42.0	63.7	97.0	88.7
27	Kansas Hybrid 4.....	67.9	67.4	.74	21.3	44.5	67.5	95.5	88.5
28	*Wood Hybrid Medium Yellow Dent.....	62.2	61.4	1.29	21.8	54.0	81.9	87.0	85.7
29	*Wood Hybrid Early White Dent.....	67.1	65.0	3.13	23.7	43.0	65.2	92.1	85.4
30	*Missouri Hybrid 8.....	66.5	64.5	3.01	24.7	38.0	57.6	91.4	83.0
31	*Wood Hybrid Medium White Dent.....	49.1	47.7	2.85	24.4	54.0	81.9	67.6	71.2
	Average of division.....	73.6	72.4	1.63	21.6	69.2	104.9	102.7	103.3
	Average of all entries.....	71.6	70.5	1.54	21.6	66.0	.....	.....	.....

*Average of 5 plots instead of 10.

TABLE 29.—SULLIVAN, SOUTH-CENTRAL ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1935

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Moisture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		bu.	bu.	perct.	perct.	perct.	perct.	perct.	
1	Funk Hybrid 220L.....	61.7	61.2	.81	21.9	52.5	158.7	123.0	131.9
2	Station Yellow Dent.....	55.2	54.9	.54	22.0	25.0	75.6	110.3	101.6
3	Waddell Utility Yellow Dent.....	55.7	54.0	3.05	23.2	24.4	73.7	108.5	99.8
4	Canterbury Yellow Dent.....	53.9	52.9	1.86	23.6	25.6	77.4	106.3	99.1
5	• Average of 5 best open-pollinated var.....	52.5	51.1	2.67	23.0	27.4	82.8	102.8	97.8
6	Shuman Golden Beauty.....	49.5	48.0	3.03	22.0	30.6	92.5	96.5	95.5
6	Moore Yellow Dent.....	48.2	45.9	4.77	24.0	31.2	94.6	92.3	92.9
7	Waddell Golden Dent.....	48.7	46.8	3.90	26.0	29.4	88.8	94.1	92.8
8	Wilson Yellow Dent.....	52.4	51.0	2.67	23.2	20.6	62.3	102.7	92.6
9	Community composite.....	48.5	45.7	5.77	24.4	27.0	81.3	91.9	89.3
10	Rice White Dent.....	47.4	44.9	5.27	25.8	25.6	77.4	90.2	87.0
11	Eversole White Dent.....	44.0	41.9	4.77	24.8	16.9	51.1	84.2	75.9
12	Waddell Utility White Dent.....	38.9	31.4	19.28	27.4	28.7	87.0	63.1	69.1
	Average of division.....	50.3	48.2	4.17	24.0	28.1	85.0	96.9	94.0
Experimental division—entries not in commercial production									
1	Illinois Hybrid 960.....	70.4	69.3	1.56	19.2	61.2	185.2	139.3	150.8
2	Illinois Hybrid 546.....	61.6	60.1	2.44	20.9	63.1	190.7	120.8	138.4
3	Illinois Hybrid 966.....	60.1	57.6	4.16	24.8	61.9	187.1	115.8	133.6
4	Illinois Hybrid 39.....	61.1	59.0	3.44	22.0	53.7	162.6	118.6	129.6
5	Illinois Hybrid 947.....	65.8	63.6	3.34	24.0	42.5	128.4	127.8	128.0
6	Funk Hybrid 207.....	64.7	60.7	6.18	21.6	42.5	128.4	122.0	123.6
7	Illinois Hybrid 710.....	58.3	57.4	1.54	23.8	45.6	137.8	115.4	121.0
8	Illinois Hybrid 945.....	63.5	62.3	1.89	20.7	30.6	92.5	125.2	117.0
9	Illinois Hybrid 1074.....	57.2	55.6	2.80	21.6	43.1	130.2	111.8	116.4
10	Illinois Hybrid 538.....	62.9	60.8	3.34	21.6	31.9	96.4	122.2	115.8
11	Illinois Hybrid 559.....	58.3	57.2	1.89	21.8	38.1	115.1	115.0	115.0
12	Illinois Hybrid 51.....	59.2	57.8	2.36	21.2	31.9	96.4	116.2	111.3
13	Illinois Hybrid 508.....	52.8	50.8	3.79	24.8	45.0	136.0	102.1	110.6
14	*Lowwealth Hybrid CC.....	58.3	57.3	1.72	21.8	31.3	94.6	115.2	110.1
15	Illinois Hybrid 54.....	54.0	52.6	2.59	22.2	40.6	122.7	105.7	110.0
16	Funk Hybrid 225.....	56.0	55.7	.54	20.6	32.5	98.2	112.0	108.6
17	Golden Beauty X 4211.....	59.2	54.4	8.11	25.2	31.3	94.6	109.3	105.6
18	Funk Hybrid 231.....	54.7	54.3	.73	20.1	24.4	73.7	109.1	100.3
19	Stiegelmeier Hybrid 3.....	50.5	47.3	6.34	25.8	36.9	111.5	95.1	99.2
20	Kansas Hybrid 3.....	52.5	49.3	6.10	27.2	30.0	90.7	99.1	97.0
21	Missouri Hybrid 51.....	53.7	49.7	7.45	28.0	23.8	71.9	99.9	92.9
22	Kansas Hybrid 5.....	51.6	48.3	6.40	28.4	25.6	77.4	97.1	92.2
23	Missouri Hybrid 11.....	52.8	46.9	11.17	25.8	19.4	58.6	94.3	85.4
24	*Wood Hybrid Medium Yellow Dent.....	43.1	41.8	3.02	23.0	27.5	83.1	84.0	83.8
25	Kansas Hybrid 4.....	44.0	40.7	7.50	24.4	25.0	75.6	81.8	80.3
26	Missouri Hybrid 19.....	45.3	43.1	4.86	26.0	20.0	60.4	86.6	80.1
27	*Waddell Utility White Dent X Indiana 33.....	41.8	36.9	11.72	26.8	31.3	94.6	74.2	79.3
28	Kansas Hybrid 6.....	47.2	36.2	23.31	27.8	28.1	84.9	72.8	75.8
29	*Wood Hybrid Early White Dent.....	39.9	28.1	29.57	32.2	22.5	68.0	56.5	59.4
30	*Missouri Hybrid 8.....	36.1	29.0	19.67	28.8	18.8	58.8	58.3	57.9
31	*Wood Hybrid Medium White Dent.....	26.6	16.8	36.84	34.2	25.0	75.6	33.8	44.3
	Average of division.....	53.7	50.3	6.33	24.4	35.0	105.8	101.2	102.4
	Average of all entries.....	52.7	49.7	5.69	24.3	33.1	.....	.....	.....

*Average of 4 plots instead of 8.

TABLE 30.—ALHAMBRA, SOUTHERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1935

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	St. Charles White.....	57.9	56.8	1.90	22.9	32.0	95.3	114.2	109.5
1	Community composite (Semesan Jr.)..	58.7	56.8	3.23	26.2	32.0	95.3	114.2	109.5
2	Waddell Golden Beauty.....	55.8	55.5	.54	26.1	34.0	101.3	111.6	109.0
2	Moore Yellow Dent.....	58.7	55.0	6.30	22.0	35.0	104.2	110.6	109.0
●	Average of 5 best open-pollinated var..	56.5	54.8	3.01	23.6	33.1	98.6	110.1	107.2
3	Waddell Golden Dent.....	53.7	52.4	2.42	23.2	34.0	101.3	105.4	104.3
3	Waddell Big Democrat.....	56.4	54.1	4.08	23.8	30.5	90.8	108.8	104.3
4	Waddell Yellow Pearl.....	50.5	49.3	2.38	28.6	38.5	114.7	99.1	103.0
5	Waddell Utility Yellow Dent.....	52.5	51.5	1.90	25.8	30.5	90.8	103.6	100.4
6	Champion White Pearl.....	53.9	43.8	18.74	25.8	39.5	117.6	88.1	95.5
7	Community composite (Barbak).....	47.3	44.6	5.71	22.2	34.0	101.3	89.7	92.6
7	Blackhawk.....	51.6	48.3	6.40	26.8	26.5	78.9	97.1	92.6
8	Pride of Saline.....	49.8	46.5	6.63	28.2	30.0	89.3	93.5	92.5
9	Waddell Utility White Dent.....	45.8	44.4	3.06	25.4	32.0	95.3	89.3	90.8
10	Station Yellow Dent.....	50.4	47.8	5.16	20.3	24.5	73.0	96.1	90.3
11	Community composite (untreated).....	48.2	38.7	19.71	27.0	30.5	90.8	77.8	81.1
12	Leaming (Kiefer).....	47.6	35.7	25.00	28.2	33.0	98.3	71.8	78.4
	Average of division.....	52.4	48.8	6.87	25.1	32.3	96.1	98.2	97.9
Experimental division—entries not in commercial production									
1	*Indiana Hybrid 835.....	66.5	64.0	3.76	21.0	42.0	125.1	128.7	127.8
2	*Missouri Hybrid 19.....	70.0	67.6	3.43	24.2	31.0	92.3	135.9	125.0
3	Illinois Hybrid 508.....	58.6	57.7	1.54	21.4	46.5	138.5	116.0	121.6
4	Illinois Hybrid 46.....	56.2	53.6	4.63	19.0	51.5	153.4	107.8	119.2
5	*Champion White Pearl × B 103.....	63.7	59.1	7.22	23.2	36.0	107.2	118.8	115.9
6	*Champion White Pearl × Indiana 33.....	62.0	52.9	14.68	20.1	46.0	137.0	106.4	114.0
6	Indiana Hybrid 823.....	53.0	51.9	2.08	23.9	48.0	142.9	104.4	114.0
7	Illinois Hybrid 546.....	49.5	48.9	1.21	21.4	53.5	159.3	98.3	113.6
8	Illinois Hybrid 710.....	53.5	53.1	.75	23.4	33.5	99.8	106.8	105.0
9	Golden Beauty × 5680.....	58.5	56.3	3.76	27.5	25.5	75.9	113.2	103.9
10	*Illinois Hybrid 559.....	51.0	50.3	1.37	21.2	36.0	107.2	101.2	102.7
11	*Champion White Pearl × Pride of Saline 47.....	51.8	50.0	3.47	19.2	36.0	107.2	100.5	102.2
12	Golden Beauty × 4211.....	51.0	50.2	1.57	21.8	35.0	104.2	101.0	101.8
13	Illinois Hybrid 51.....	47.6	46.4	2.52	21.8	39.5	117.6	93.3	99.4
14	Indiana Hybrid 880.....	53.7	53.0	.56	21.4	25.0	74.5	106.6	98.6
15	Illinois Hybrid 54.....	47.2	46.8	.85	22.9	37.5	111.7	94.1	98.5
16	Golden Beauty × 5110.....	50.0	49.5	1.00	20.6	31.0	92.3	99.5	97.7
17	*Missouri Hybrid 8.....	48.5	45.8	5.57	25.9	38.0	113.2	92.1	97.4
18	*Missouri Hybrid 11.....	55.3	52.0	5.97	23.6	24.0	71.5	104.6	96.3
19	*Golden Beauty × 5677.....	52.7	48.9	7.21	22.4	24.0	71.5	98.3	91.6
20	*Indiana Hybrid 815.....	43.9	43.0	2.05	23.4	35.0	104.2	86.5	90.9
21	*Champion White Pearl × Pride of Saline 29.....	56.5	45.9	18.76	26.8	26.0	77.4	92.3	88.6
22	Wood Hybrid Early White Dent.....	48.6	42.9	11.73	26.6	28.5	84.9	86.3	85.9
23	*Illinois Hybrid 538.....	46.7	46.0	1.50	26.2	20.0	59.6	92.5	84.3
24	Wood Hybrid Medium Yellow Dent.....	44.9	39.7	11.58	21.2	23.5	70.0	79.8	77.4
25	Wood Hybrid Medium White Dent.....	39.3	32.1	18.32	28.0	21.5	64.0	64.6	64.4
	Average of division.....	53.1	50.3	5.27	23.0	34.4	102.4	101.1	101.4
	Average of all entries.....	52.8	49.7	5.87	23.8	33.6	.....	.....	.....

*Average of 5 plots instead of 10.

TABLE 31.—EDGEWOOD, SOUTHERN ILLINOIS: PERFORMANCE OF CORN VARIETIES AND HYBRIDS, 1935

Rank	Entry	Acre-yield		Damaged corn in shelled sample	Mois- ture in grain at harvest	Erect plants	Performance rating for—		General perform- ance rating
		Total	Sound				Lodging resist- ance	Sound yield	
Regular division—entries in commercial production									
		<i>bu.</i>	<i>bu.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	<i>perct.</i>	
1	Moore Yellow Dent.....	50.1	49.4	1.40	24.9	60.5	102.6	103.8	103.5
2	Pride of Saline.....	50.8	50.2	1.18	28.3	41.5	70.4	105.5	96.7
3	Community composite (Semesan Jr.).....	44.3	44.2	.23	22.7	60.5	102.6	92.9	95.3
4	● Average of 5 best open-pollinated var.....	46.5	45.9	1.29	25.5	51.8	87.9	96.5	94.4
4	Community composite (Barbak).....	43.1	43.0	.23	22.7	57.0	96.7	90.4	92.0
5	Waddell Utility White Dent.....	45.0	43.6	3.11	24.3	54.0	91.6	91.6	91.6
6	Waddell Golden Beauty.....	43.2	43.2	0	23.9	53.5	90.8	90.8	90.8
7	Community composite (untreated).....	43.3	43.2	.23	22.7	51.0	86.5	90.8	89.7
8	Blackhawk.....	43.5	43.3	.46	26.1	49.5	84.0	91.0	89.3
9	Champion White Pearl.....	42.2	39.4	6.64	25.8	53.5	90.8	82.8	84.8
	Average of division.....	45.1	44.4	1.55	24.6	53.4	90.7	93.3	92.6
Experimental division—entries not in commercial production									
1	*Indiana Hybrid 815.....	63.4	63.1	.47	32.6	73.0	123.9	132.6	130.4
2	*Moore Yellow Dent × Indiana B.....	54.5	52.8	3.12	25.1	81.0	137.4	111.0	117.6
3	*Moore Yellow Dent × 4211.....	53.2	53.1	.19	22.0	74.0	125.5	111.6	115.1
4	*Champion White Pearl × Indiana 33.....	53.9	53.7	.37	26.9	68.0	115.4	112.9	113.5
5	*Illinois Hybrid 508.....	49.1	47.7	2.85	21.9	83.0	140.8	100.3	110.4
6	*Indiana Hybrid 880.....	52.2	52.0	.38	17.2	65.0	110.3	109.3	109.6
7	*Champion White Pearl × B 103.....	59.1	57.6	2.54	25.3	42.0	71.3	121.1	108.7
8	*Indiana 33 × Champion White Pearl.....	53.0	52.7	.57	25.2	57.4	97.4	110.8	107.5
9	*Missouri Hybrid 51.....	53.1	53.0	.19	35.9	50.0	84.8	111.4	104.8
10	*Illinois Hybrid 54.....	45.1	45.0	.22	22.4	72.0	122.2	94.6	101.5
11	*Champion White Pearl × Pride of Saline 29.....	53.4	53.0	.75	25.4	42.0	71.3	111.4	101.4
12	*Champion White Pearl × Pride of Saline 47.....	42.3	41.6	1.65	22.5	76.0	128.9	87.4	97.8
13	*Indiana Hybrid 823.....	42.7	42.5	.47	22.0	72.0	122.2	89.3	97.5
14	*Indiana Hybrid 835.....	41.4	40.8	1.45	18.9	74.0	125.5	85.8	95.7
15	*Champion White Pearl × Pride of Saline 6.....	49.7	49.5	.40	23.8	39.0	66.2	104.0	94.6
16	*Missouri Hybrid 19.....	46.5	46.5	0	29.9	50.0	84.8	97.7	94.5
17	*Indiana Hybrid 850.....	42.7	42.2	1.17	24.3	44.0	74.7	88.7	85.2
18	*Golden Beauty × 5677.....	39.7	38.4	3.27	24.9	48.0	81.4	80.7	80.9
	Average of division.....	49.7	49.2	1.01	24.8	61.7	104.7	103.4	103.7
	Average of all entries.....	48.2	47.6	1.24	24.7	58.9	.....	.....	.....

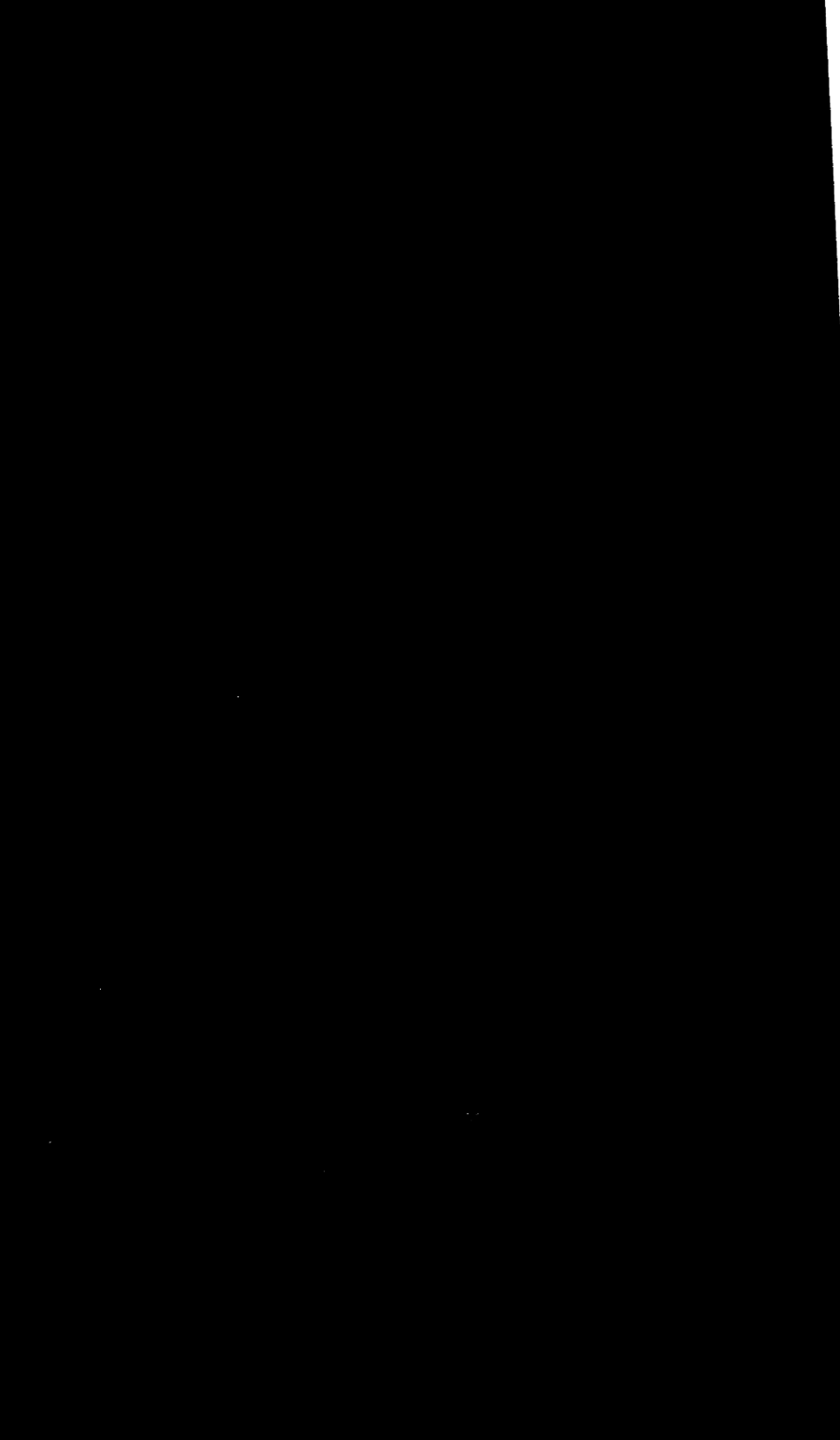
*Average of 5 plots instead of 10.

CONTRIBUTORS OF SEED FOR THE 1935 CORN PERFORMANCE TESTS

<i>Entry</i>	<i>Contributor</i>	<i>Address</i>
Angevine Yellow Dent	L. L. Angevine	Oscos
Armstrong community composite	High School Agr. Dept.	Armstrong
Blackhawk	Ernst Haller, Jr.	Highland
Canterbury Yellow Dent	C. E. Canterbury	Cantrall
Champion White Pearl	F. V. Wilson and Son	Edgewood
Champion White Pearl top crosses	Illinois Station	Urbana
Curtiss Western Plowman	Homer Curtiss	Stockton
DeKalb community composite	High School Agr. Dept.	DeKalb
DeKalb Hybrids 3A, 38-495	DeKalb Co. Agr. Assoc.	DeKalb
Dewey Yellow Dent	James Dewey	Armstrong
Doubet Yellow Dent	Ed. W. Doubet	Hanna City
Dwight community composite	High School Agr. Dept.	Dwight
Eckhardt Golden King }	Corn Belt Seed Co.	DeKalb
Eckhardt Western Plowman }		
Effingham community composite	High School Agr. Dept.	Effingham
Evans Will County Favorite	Evans Seed Co.	Rochelle
Eversole White Dent	J. H. Eversole	Champaign
Funk Hybrids 206-231	Funk Bros. Seed Co.	Bloomington
Golden Beauty top crosses	Illinois Station	Urbana
Greenlee Yellow Dent	Clark Greenlee	Winnebago
Gunn Western Plowman	DeKalb Co. Agr. Assoc.	DeKalb
Heckerson Yellow Dent	Heckerson and Son	Armstrong
Henry community composite	High School Agr. Dept.	Henry
Herndon Yellow Dent	Herndon Brothers	Adair
Highland community composite	High School Agr. Dept.	Highland
Hoblit Golden Eagle	Dean Hoblit	Atlanta
Hulting Yellow Dent	C. E. Hulting	Geneseo
Illinois Hybrids 29-1074	Ill. Sta. and U.S.D.A.	Urbana
Illinois Hybrid D118-477	DeKalb Co. Agr. Assoc.	DeKalb
Indiana Hybrids 425-880	Purdue Sta. and U.S.D.A.	LaFayette, Indiana
Iowa Hybrids 13-3294	Iowa Sta. and U.S.D.A.	Ames, Iowa
Ioweaht Hybrids B, BC, etc.	Leonard Seed Co.	Chicago
Kansas Hybrids 3-6	Kans. Sta. and U.S.D.A.	Manhattan, Kansas
Knox county composite	High School Agr. Dept.	Galesburg
Leaming	Xavier Kiefer	Belle Rive
Long John	B. S. Griffith	Clinton
Long John top cross	Illinois Station	Urbana
McKeighan Yellow Dent	J. L. McKeighan	Yates City
Missouri Hybrid 8-51	Missouri Sta. and U.S.D.A.	Columbia, Missouri
Moews Hybrid 22-32	Ben Moews	Granville
Moore Yellow Dent	Illinois Station	Urbana
Moore Yellow Dent top crosses	Illinois Station	Urbana
Morgan Hybrid M.W.104-138	Morgan Brothers	Galva
Mountjoy Utility Dent	Oscar Mountjoy	Atlanta
Mummert-Hahn Dent	John Hahn	Dwight
National Hybrid 9	Leonard Seed Co.	Chicago
Ohio Hybrid 3-8	Ohio Sta. and U.S.D.A.	Wooster, Ohio
Original Krug	Woodford Co. Agr. Assoc.	Eureka
Pfister Hybrid 584, etc.	Lester Pfister	El Paso
Pioneer Hi-Bred 306-3500	Pioneer Hi-Bred Seed Co.	Des Moines, Iowa
Pride of Saline	Kans. Sta. and U.S.D.A.	Manhattan, Kansas
Pride of Saline top cross	Illinois Station	Urbana
Queen of the Field	W. F. Black	Walnut
Rice White Dent	J. R. Rice	Blue Mound
Rochelle community composite	High School Agr. Dept.	Rochelle
Roeschley Utility Dent	Leo Roeschley	Graymont
Ropp Yellow Dent	Ropp Brothers	Tremont

<i>Entry</i>	<i>Contributor</i>	<i>Address</i>
St. Charles White.....	E. H. Isenberg.....	Kaufman
Shuman Golden Beauty.....	Charles Shuman.....	Sullivan
Simmons Will Co. Favorite.....	C. J. Simmons.....	Stockton
Sommer Yellow Dent.....	Sommer Brothers.....	Pekin
Station Yellow Dent.....	Illinois Station.....	Urbana
Stiegelmeier Hybrid 2-3	}..... H. L. Stiegelmeier.....	Normal
Stiegelmeier Improved Dent		
Stockton community composite.....	High School Agr. Dept.....	Stockton
Suchy Yellow Dent.....	Anton Suchy and Son.....	Algonquin
Sullivan Composite.....	High School Agr. Dept.....	Sullivan
Tiemann Yellow Dent.....	O. P. Tiemann.....	Bloomington
U. S. Hybrid 33-57.....	U. S. Dept. Agr.....	Washington, D. C.
Waddell Big Democrat	}..... Elmer Waddell.....	Taylorville
Waddell Golden Beauty		
Waddell Golden Dent		
Waddell Utility White Dent		
Waddell Utility Yellow Dent		
Waddell Yellow Pearl		
Waddell Utility White Dent top cross.....	Illinois Station.....	Urbana
Webb Will Co. Favorite.....	William Webb.....	Plainfield
Wilson Yellow Dent.....	Ed. Wilson.....	Winchester
Wisconsin Hybrids 1-570.....	Wisc. Sta. and U.S.D.A.....	Madison, Wisconsin
Wood Hybrid Early White Dent	} Wood Seed Co.....	Richmond, Virginia
Wood Hybrid Med. White Dent		
Wood Hybrid Med. Yellow Dent		







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