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Performance Tests of  
*Corn Varieties and Hybrids*  
**1944**

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# Performance Tests of CORN VARIETIES AND HYBRIDS, 1944

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The 1944 Corn Performance Tests of the Oklahoma Agricultural Experiment Station were conducted at 14 locations scattered throughout the corn-growing section of the State (see map, page 7). A total of 126 hybrid strains and 16 open-pollinated varieties was grown in one or more of the tests. Locations were chosen to represent as nearly as possible the predominant soil types in the area where the test was grown.

The 1944 results are shown in the accompanying tables. *They leave little doubt as to the ability of certain hybrids to yield appreciably more grain than standard open-pollinated varieties.*

The results also indicate that soil type and seasonal conditions play an important part in determining which hybrid gives the best yield. In view of the variable seasonal conditions in this State, *it seems advisable to plant at least two hybrids of different maturity.* If unfavorable weather catches one hybrid at a critical period, the other may escape. The large number of hybrids on the market and the wide range of their maturity is advantageous in this respect.

Hybrids which have produced good yields at several test locations are the safest choice. Many farmers prefer the type and quality of grain produced by hybrids developed for neighboring states, therefore these hybrids are to be favored if their maturity is suited to the type of soil where they are to be planted.

There is need for good hybrids of early maturity adapted to this state, and *hybrids of this type are now being developed at the Oklahoma experiment station.*

## Interpreting the Tables

Yield of each strain planted at the various test locations is given in Tables I to XVI. Tables XVII to XXII give summaries by soil types and for past years. Yields shown are bushels per acre, except in the popcorn tables where they are pounds per acre.

The yields reported in the tables are calculated as shelled corn containing 15.5 percent moisture, the upper limit allowable for No. 2 corn. An estimate of the variation in yield

which might be expected to result from variations in soil and other factors within the test field is given for each test location. *This "significant difference," shown at the top of each table, should be kept in mind whenever two strains are compared.*

Except where otherwise indicated, the yields reported in the tables are for 1944 and of course do not prove which strains will do best another season or at another location. A better estimate of the performance of a particular strain over a period of years and at a variety of locations can be had by observing the performance of that strain at several locations. Therefore the 1944 yields for several selected locations are summarized in Tables XVII to XIX (pages 22 to 24);\* and yields at Stillwater and Perkins over a period of years are averaged in Tables XX to XII (pages 25 and 26).

Hybrids developed by experiment stations of neighboring states made very good records, probably partly due to a better adaptation to soil and climatic conditions. The two Kansas hybrids 1583 and 2234 (white) are in all three summary lists. Texas hybrids 12 and 7W (white) and Kansas 1585 are in both bottomland lists. U. S. 13, which is widely planted in the southern half of the Corn Belt, is in the upland and one bottomland list.

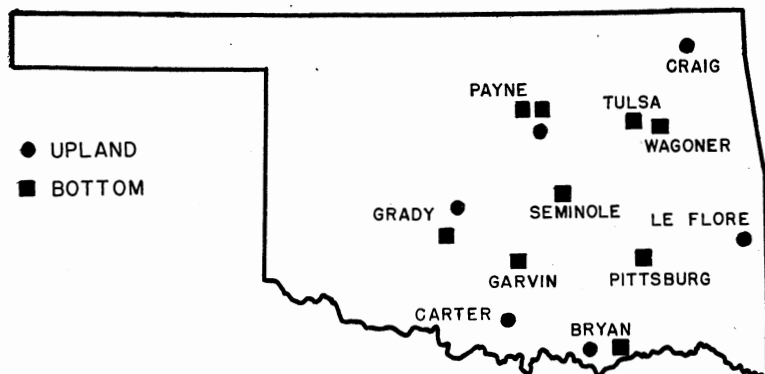
*That upland needs an earlier maturing strain than is suited to fertile bottomland is indicated* by the strains which appear in the three 1944 summary lists. The average silk date\*\* for all strains listed in the summary table for the bottomland of high fertility is 32.6 (July 3; see following paragraph). For the medium fertile bottomlands it is 30.0 (June 30); and for uplands 28.8 (June 29). This is in agreement with results over a period of years at the Stillwater and Perkins farms.

**SILK DATE.**—The silk date recorded in some of the tables is the number of days after June 1 required for 50 percent of the plants to show silk. That is, "27" indicates June 27; "34"

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\* The table summarizing yields for bottomlands of high fertility includes the Garvin county and Seminole county tests where the season was very favorable, the Wagoner county tests where conditions were moderately favorable, and the Bryan county test where yields were limited by dry weather in late June and July. These four tests therefore should give a much more accurate index to performance than any single test on the more fertile soils. Every strain recorded in that table and in the similar table for upland tests has been in at least two tests and has at least once yielded  $1\frac{1}{2}$  times (150 percent) the average of the five open-pollinated varieties used as a check. In the table summarizing bottomland tests of medium fertility, strains were included if they yielded  $1\frac{1}{2}$  times (133 percent) the check at one or more locations. The Tulsa county test was included in this group since it was planted mainly to earlier maturing strains in order to permit early harvest and allow other experiments on the same land.

\*\* As recorded in the Stillwater tests.



#### Where 1944 Corn Performance Tests Were Made.

A total of 126 hybrid strains and 16 open-pollinated varieties was grown at one or more of the plots shown on the above map. At most locations, 49 strains and varieties were tested. Tests are scattered throughout the corn-growing section of the state to give an indication of which hybrids are adapted to the various types of soil and climatic conditions.

indicates July 4 (34-30 days in June-July 4); etc. Silk date is one of the more accurate measures of maturity. For two strains planted at the same time and on the same soil, each day's difference in silk date will indicate two to three days' difference in maturity.

**PLANT SPACING AND SEED BED PREPARATION.**—The test plots were prepared for planting by the cooperating farmer in the same way he prepared his own corn field, which in all cases was the usual seed bed preparation for corn. The plots were hand planted in hills 42 inches apart in the row and three grains per hill.\* At some locations this produced a stand thicker than desirable for maximum production and quality of grain, but should not affect comparison between strains. The plots were not thinned and the only correction of yields for variation in stand was an adjustment for missing hills.

**LODGED PLANTS.**—Percent of lodged plants is shown in the tables wherever lodging was sufficient to appear indicative of differences between strains. Plants were considered lodged when they were leaning more than 30 degrees from the vertical or if the stalks were broken below the ear.

\* Row widths varied from 38 to 42 inches, depending upon that used by the particular cooperator.

## INDIVIDUAL TESTS

## Yields in Bushels Per Acre

TABLE I—BRYAN COUNTY (Upland)  
J. T. Caddel Farm; Calera, 3 miles southwest

A difference of less than 4.7 bushels per acre between any two strains should not be considered significant in this test.

Rank	Strain	Yield	Rank	Strain	Yield
1	National 125	18.9	26	Indiana 620	12.7
2	Indiana 608C	17.7	27	Ohio M15	12.5
3	Funk G-94	17.3	28	Indiana 610B	12.3
4	Dekalb 816	16.7	29	Missouri 8	12.3
5	Pioneer 300	16.5	30	Mandelartz 287	11.7
6	Funk G-114	16.2	31	*75-day Dent	11.6
7	Illinois 350	16.0	32	Pioneer 332	11.5
8	Missouri 148	15.8	33	Texas 12	11.5
9	Indiana 826D	15.3	34	Illinois 751	11.4
10	Ohio C38	15.2	35	U. S. 63	11.2
11	*Woods Corn (wh)	15.2	36	U. S. 35	11.1
12	Kansas 2234 (wh)	15.1	37	Pioneer 334	11.0
13	Illinois 200	14.6	38	Wisconsin 455	10.6
14	Indiana 818	14.6	39	*Reid Yellow Dent 176A	10.3
15	Shannon 1300	14.6	40	*Hays Golden	10.2
16	Pioneer 336	14.1	41	National 123	10.0
17	U. S. 14	14.1	42	U. S. 13	9.5
18	Texas 8	14.1	43	Ohio W10	9.4
19	Illinois 246	13.9	44	Indiana 844D	9.1
20	Ohio K24	13.8	45	Wisconsin 525	8.5
21	Iowearth 28N	13.6	46	Funk G-707	8.5
22	Tennessee 14 (wh)	13.2	47	*Ferguson Yellow Dent	8.3
23	Ferris F31	13.0	48	Wisconsin 279	8.1
24	Ward 125	12.9	49	Wisconsin 355	7.4
25	Kansas 1583	12.8			

\*—Indicates open-pollinated variety. All others are hybrids. (wh)—white grain.

TABLE II—BRYAN COUNTY (Red River Bottom)  
R. W. Reeves Farm; Bennington, 10 miles south

A difference of less than 7.6 bushels per acre between any two strains should not be considered significant in this test.

Rank	Strain	Yield	Rank	Strain	Yield
1	Texas 8	57.1	6	Iowearth W28 (wh)	51.6
2	Texas 7W (wh)	56.5	7	Pioneer 334	51.5
3	Funk G-711	56.1	8	Ferris F31	51.5
4	National 134t	54.1	9	Indiana 610B	51.2
5	Iowearth T×1	53.0	10	Kansas 2234 (wh)	51.2

(Table continued on next page.)

\*—Indicates open-pollinated variety. All others are hybrids. (wh)—white grain.



TABLE II, Continued.

Rank	Strain	Yield	Rank	Strain	Yield
11	Pioneer 300	51.1	31	Illinois 350	45.1
12	National 134th	51.1	32	*Reid Yellow Dent 176A	44.8
13	Funk G-150	50.5	33	Keystone 38	44.7
14	Texas 12	49.5	34	Missouri 8	44.5
15	Kansas 1583	49.4	35	U. S. 13	44.0
16	U. S. 14	49.3	36	National 134	43.7
17	Funk G-702	49.3	37	National 118R	40.5
18	Indiana 425B	49.2	38	Illinois 200	40.2
19	Ohio L86	49.0	39	*Ferguson Yellow Dent	39.1
20	Tennessee 10 (wh)	48.6	40	Keystone 42	36.8
21	Kansas 1585	47.7	41	*Reid Yellow Dent	36.7
22	Texas 16	47.5	42	U. S. 35	37.3
23	Pioneer 332	46.4	43	U. S. 63	36.5
24	Indiana 818	46.4	44	*75-day Dent	35.2
25	Missouri 148	46.2	45	*Yellow Surcropper	32.8
26	Indiana 844D	46.2	46	*Hays Golden	32.6
27	Ferris F44-1	46.1	47	Embryo 1250	30.5
28	Iowealth 28N	46.0	48	*Woods Corn (wh)	29.8
29	Tennessee 14 (wh)	45.5	49	*White Surcropper (wh)	29.2
30	Tennessee 15 (wh)	45.1			

TABLE III—CARTER COUNTY (Upland)  
Southern Oklahoma Soil Improvement Station; Lone  
Grove, 1/2 mile west

A difference of less than 4.6 bushels per acre between any two strains should not be considered significant in this test.

Rank	Strain	Yield	Rank	Strain	Yield
1	Ohio L86	27.7	17	Ferris F31	24.1
2	Ohio C38	27.7	18	Ohio K24	24.1
3	Ohio W10	27.3	19	Funk G-135	24.0
4	Pioneer 336	26.5	20	Missouri 313	23.9
5	Indiana 826D	25.5	21	Pioneer 339	23.8
6	U. S. 13	25.3	22	Indiana 829C	23.8
7	Indiana 620	25.0	23	Funk G-114	23.7
8	U. S. 63	25.0	24	U. S. 13	23.7
9	U. S. 35	24.9	25	Missouri 148	23.6
10	Ohio M20	24.8	26	Federal 22A	23.5
11	Iowealth 26N	24.3	27	Illinois 751	23.5
12	Shannon 1300	24.2	28	National 127	23.4
13	Dekalb 816	24.2	29	U. S. 14	23.2
14	Funk G-94	24.2	30	*Reid Yellow Dent 176A	23.0
15	Wisbred D66	24.1	31	National 134D	23.0
16	Pioneer 333	24.1	32	Indiana 425B	22.9

(Table continued on next page.)

\*—Indicates open-pollinated variety. All others are hybrids.

(wh)—white grain.

TABLE III, Continued.

Rank	Strain	Yield	Rank	Strain	Yield
33	Embro 1020	22.8	66	Ferris F11	19.5
34	Keystone 38	22.7	67	Dekalb 888	19.3
35	Ohio M34	22.7	68	Iowealth 28N	19.3
36	Keystone 39	22.6	69	*Squaw Corn	19.1
37	Funk G-94	22.6	70	Wisconsin 416	18.9
38	Indiana 610B	22.5	71	Pioneer 334	18.9
39	Indiana 818	22.5	72	Funk G-66	<b>18.5</b>
40	Pioneer 332	22.5	73	Wisconsin 464	18.5
41	Indiana 608C	22.1	74	*Yellow Surcropper	18.3
42	Illinois 350	22.1	75	Pioneer 300	18.2
43	Ward 120A	22.0	76	Illinois 200	18.0
44	National OK1	21.9	77	National 132 <sub>2</sub>	17.8
45	Ohio M15	21.7	78	Illinois 784	17.8
46	Iowealth T×1	21.4	79	Mandelartz 287A	17.6
47	Hendrix E	21.3	80	Kansas 1583	17.2
48	Wisconsin 606	21.1	81	Dekalb 1022	17.0
49	U. S. 35	21.0	82	*Woods Corn (wh)	17.0
50	Wisconsin 355	21.0	83	*Pencil Cob	17.0
51	U. S. 14	21.0	84	Texas 12	16.9
52	National 129	20.9	85	National 126 <sub>1</sub>	16.8
53	Mandelartz 287	20.8	86	*Hays Golden	16.7
54	Keystone 42	20.8	87	Missouri 8	16.6
55	Ferris F44-1	20.7	88	Kansas 2234 (wh)	16.5
56	Wisconsin 525	20.7	89	*75-day Dent	16.4
57	U. S. 35	20.4	90	Ward 125	16.3
58	Kansas 1585	20.3	91	*Ferguson Yellow Dent	15.1
59	Wisconsin 455	20.1	92	Embro 1001	14.8
60	Embro 1325	20.1	93	Wisconsin 275	14.7
61	Wisconsin 420	20.0	94	*Groenemans Mortg. Lifter	14.4
62	Mandelartz 37	19.9	95	*Hays Golden	14.3
63	Indiana 844D	19.9	96	*Reid Yellow Dent	14.2
64	Funk G-88	19.8	97	Wisconsin 279	11.6
65	Illinois 246	19.8	98	*Oklahoma Silvermine (wh)	7.9

\*—Indicates open-pollinated variety. All others are hybrids.

(wh)—white grain.

**TABLE IV—CRAIG COUNTY (Upland)**  
*S. W. Robertson Farm; Vinita, 3 miles west and 1 south*

A difference of less than 7.5 bushels per acre between any two strains should not be considered significant in this test.

Rank	Strain	Yield	Rank	Strain	Yield
1	Indiana 826D	39.2	26	Indiana 610B	29.0
2	Kansas 1583	35.9	27	*Hays Golden	28.7
3	Keystone 38	35.1	28	Pioneer 333	27.7
4	Pioneer 336	34.6	29	Illinois 246	25.8
5	Indiana 844D	34.5	30	Mandelartz 37	25.3
6	*Woods Corn (wh)	33.5	31	National 126 <sub>1</sub>	25.1
7	Illinois 200	33.4	32	*Pencil Cob	24.9
8	Iowealth 28N	33.4	33	Illinois 784	23.9
9	Missouri 313	32.1	34	Wisconsin 355	23.9
10	Keystone 39	31.7	35	Wisbred D66	23.6
11	Missouri 148	31.7	36	Pioneer 334	23.2
12	Shannon 1300	31.4	37	U. S. 14	23.1
13	Tennessee 14 (wh)	31.4	38	Wisconsin 606	22.5
14	Texas 12	31.3	39	*75-day Dent	22.2
15	Indiana 425B	30.8	40	Mandelartz 287A	20.5
16	*Groenemans Mortg. Lifter	30.6	41	Missouri 8	20.3
17	Embro 1020	30.2	42	Wisconsin 525	18.8
18	Funk G-114	30.2	43	Mandelartz 287	17.2
19	Illinois 350	30.1	44	U. S. 63	16.2
20	Pioneer 332	30.0	45	*Oklahoma Silvermine (wh)	16.0
21	Pioneer 339	29.4	46	Wisconsin 275	15.8
22	U. S. 35	29.2	47	*Reid Yellow Dent	15.7
23	Indiana 608C	29.1	48	*Ferguson Yellow Dent	14.8
24	Indiana 620	29.1	49	Wisconsin 279	9.4
25	U. S. 13	29.1			

\*—Indicates open-pollinated variety. All others are hybrids. (wh)—white grain.

**TABLE V—GARVIN COUNTY—(Washita Bottom)**  
*Derald Butler Farm; Pauls Valley, 2 miles north*

A difference of less than 16.4 bushels per acre between any two strains should not be considered significant in this test.

Rank	Strain	Yield	Rank	Strain	Yield
1	National 134th	124.4	10	Texas 7W (wh)	105.4
2	Funk G-711	119.4	11	Iowealth T×1	105.3
3	Funk G-707	116.9	12	*Ferguson Yellow Dent	103.9
4	Texas 12	115.7	13	Texas 8	102.6
5	National 134t	112.0	14	White 113W (wh)	98.6
6	Funk G-702	109.6	15	Tennessee 15 (wh)	97.4
7	Tennessee 14 (wh)	108.8	16	Kansas 1583	94.5
8	Tennessee 10 (wh)	108.2	17	Kansas 2234 (wh)	94.5
9	Kansas 1585	106.4	18	Iowealth 26N	92.0

(Table continued on next page.)

TABLE V, Continued.

Rank	Strain	Yield	Rank	Strain	Yield
19	Missouri 8	90.1	34	Indiana 818	78.2
20	U. S. 14	89.8	35	*75-day Dent	78.1
21	Pioneer 332	89.0	36	Illinois 350	76.0
22	Pioneer 336	88.5	37	Indiana 844D	75.5
23	National 132 <sub>2</sub>	87.4	38	Ohio L86	74.5
24	Keystone 39	86.9	39	*Woods Corn (wh)	73.0
25	Illinois 751	85.8	40	Iowealth 25A	73.0
26	U. S. 13	84.3	41	National 129	69.5
27	Pioneer 334	82.8	42	*Hays Golden	67.1
28	*Reid Yellow Dent	82.1	43	U. S. 63	64.4
29	Illinois 200	81.4	44	U. S. 35	62.7
30	Texas 16	80.8	45	Missouri 148	61.6
31	Illinois 784	79.4	46	Wisconsin 464	56.6
32	Indiana 610B	79.3	47	*White Surcropper (wh)	52.5
33	*Reid Yellow Dent	78.6	48	*Yellow Surcropper	52.0
			49	Keystone 42	44.1

\*—Indicates open-pollinated variety. All others are hybrids.

(wh)—white grain.

TABLE VI—GRADY COUNTY (Upland)  
E. E. Hatcher Farm; Minco, 3 miles northeast

A difference of less than 6.8 bushels per acre between any two strains should not be considered significant in this test.

Rank	Strain	Percent Lodged	Yield	Rank	Strain	Percent Lodged	Yield
1	Ohio C38	1	37.7	21	Embros 1020	2	28.2
2	Indiana 818	7	37.0	22	National 134D	27	27.6
3	Illinois 751	0	35.1	23	Indiana 826D	5	27.4
4	Pioneer 332	13	35.0	24	Pioneer 334	7	27.3
5	Keystone 39	15	33.7	25	Iowealth 28N	7	27.0
6	U. S. 13	2	33.5	26	Illinois 784	21	26.2
7	Hendrix E	13	31.8	27	Mandelartz 287	42	25.9
8	Missouri 148	12	31.6	28	Funk G-114	1	25.9
9	Indiana 610B	5	31.0	29	U. S. 63	0	25.5
10	Wisbred D66	10	30.7	30	Keystone 38	4	25.2
11	Ohio W10	8	30.6	31	National 132 <sub>2</sub>	16	25.0
12	Ohio M15	13	30.0	32	Texas 12	42	24.3
13	Ferris F44-1	14	29.6	33	Ferris F31	5	24.3
14	Illinois 200	18	29.6	34	U. S. 35	22	23.7
15	U. S. 14	2	29.6	35	*Pencil Cob	24	23.2
16	Pioneer 339	5	29.2	36	Mandelartz 37	15	22.9
17	Embros 1325	29	29.2	37	National 126 <sub>1</sub>	12	22.1
18	Ohio K24	2	29.0	38	*Reid Yellow Dent	35	21.7
19	Illinois 350	8	28.8	39	Wisconsin 525	20	21.5
20	Pioneer 336	15	28.4	40	Missouri 8	42	20.4

(Table continued on next page.)

\*—Indicates open-pollinated variety. All others are hybrids.

(wh)—white grain.

TABLE VI, Continued.

Rank	Strain	Percent Lodged	Yield	Rank	Strain	Percent Lodged	Yield
41	Keystone 42	13	20.4	46	*75-day Dent	46	17.1
42	*Woods Corn (wh)	27	19.7	47	Funk G-88	30	17.0
43	Wisconsin 275	18	19.5	48	*Ferguson Yellow Dent	42	16.9
44	Wisconsin 355	19	18.8	49	Funk G-707	36	15.7
45	*Hays Golden	31	18.6				

TABLE VII—GRADY COUNTY (Washita Bottom)  
George Dietrich Farm; Chickasha, 5 miles west

A difference of less than 9.6 bushels per acre between any two strains should not be considered significant in this test.

Rank	Strain	Percent Lodged	Yield	Rank	Strain	Percent Lodged	Yield
1	Ohio L86	8	34.2	26	Shannon 1500	7	22.5
2	Kansas 1583	49	30.6	27	Indiana 620	19	22.5
3	Illinois 751	8	28.6	28	Illinois 350	11	22.2
4	U. S. 35	4	28.6	29	U. S. 13	7	22.0
5	U. S. 14	10	28.2	30	Ferris F31	0	21.6
6	Ferris F44-1	23	26.8	31	Missouri 8	34	21.6
7	Tennessee 10 (wh)	22	25.7	32	Illinois 246	2	21.3
8	Pioneer 334	4	25.6	33	*White Surcropper (wh)	11	21.3
9	Pioneer 332	5	25.3	34	*Hays Golden	19	21.2
10	Ohio K24	6	25.2	35	Indiana 818	4	21.1
11	Funk G-150	25	25.2	36	*Reid Yellow Dent 176A	34	20.4
12	Missouri 148	32	24.7	37	National 134	30	20.3
13	Texas 7W (wh)	14	24.6	38	Texas 12	55	20.2
14	U. S. 63	11	24.5	39	Indiana 826D	5	19.9
15	Kansas 2234 (wh)	23	24.2	40	*75-day Dent	39	19.4
16	Indiana 610B	19	24.1	41	*Woods Corn (wh)	27	19.1
17	Embro 1325	39	24.0	42	Tennessee 14 (wh)	33	19.0
18	Ohio C38	2	23.8	43	Tennessee 15 (wh)	23	19.0
19	National 134D	30	23.7	44	*Ferguson Yellow Dent	33	18.5
20	Illinois 784	29	23.6	45	Kansas 1585	23	18.0
21	Ohio M15	20	23.5	46	Texas 16	47	14.1
22	Embro 1020	13	23.3	47	*Okla. Silvermine (wh)	19	12.6
23	Texas 8	27	23.3	48	*Groenemans M. L.	36	11.7
24	Illinois 200	13	23.1	49	*Yellow Surcropper	9	9.0
25	Funk G-707	32	23.0				

\*—Indicates open-pollinated variety. All others are hybrids.

(wh)—white grain.

**TABLE VIII—LE FLORE COUNTY (Upland)**  
*Eastern Oklahoma Soil Improvement Station; Heavener, 1 mi. north*

A difference of less than 4.4 bushels per acre between any two strains should not be considered significant in this test.

Rank	Strain	Yield	Rank	Strain	Yield
1	U. S. 35	45.3	9	Indiana 425B	36.9
2	U. S. 63	42.3	10	U. S. 13	36.4
3	U. S. 14	42.1	11	*Woods Corn (wh)	34.4
4	Indiana 610B	40.4	12	*Ferguson Yellow Dent	32.6
5	Illinois 200	39.5	13	Wisconsin 606	32.0
6	Illinois 350	39.4	14	*Hays Golden	31.4
7	Indiana 844D	39.4	15	Wisconsin 355	16.2
8	Indiana 608C	37.4	16	Wisconsin 275	12.6

\*—Indicates open-pollinated variety. All others are hybrids.

(wh)—white grain.

**TABLE IX—PAYNE COUNTY (Upland)**  
*Oklahoma Agricultural Experiment Station Farm; Perkins,  
 1 mile north and 1 west*

A difference of less than 6.8 bushels per acre between any two strains should not be considered significant in this test.

Rank	Strain	Silk Date**	Percent Lodged	Yield	Rank	Strain	Silk Date**	Percent Lodged	Yield
1	Hoosier Crost F-170	33	7	50.7	21	Ohio C38	30	11	47.1
2	Funk G-114	31	5	50.6	22	Shannon 1500	35	7	47.1
3	Ferris F44-1	36	8	50.1	23	Indiana 620	32	14	46.9
4	Pioneer 332	35	16	49.6	24	Ohio L86	33	19	46.9
5	Ferris F31	35	1	49.2	25	Hoosier Crost F-138	32	13	46.6
6	Ohio M34	29	28	49.1	26	Shannon 1300	35	11	46.6
7	Illinois 751	31	9	49.0	27	Pioneer 336	34	6	46.5
8	Hoosier Crost F-150	28	14	48.7	28	National 118R	32	14	46.3
9	Pioneer 333	32	2	48.5	29	Grinnelean 339	32	8	46.3
10	Illinois 21	37	13	48.4	30	Indiana 210B	31	12	45.7
11	National 134	35	14	48.4	31	Indiana 610B	33	16	45.7
12	Missouri 313	35	7	48.2	32	Federal 22A	36	7	45.5
13	Ohio W10	32	8	48.1	33	Iowearth 26N	34	10	45.5
14	Mandelartz 5	32	30	48.0	34	Hoosier Crost 746	34	8	45.4
15	National 125	35	17	48.0	35	Indiana 844D	33	10	45.3
16	Pioneer 334	34	7	47.9	36	Ward 120A	35	11	45.2
17	Indiana 425B	32	11	47.6	37	Dekalb 816	32	6	45.1
18	Pioneer 300	33	5	47.5	38	Embro 1250	37	30	44.9
19	Indiana 818	35	6	47.2	39	Ohio M20	29	30	44.5
20	Hoosier Crost F-140	30	5	47.2	40	Pioneer 339	33	15	44.3

(Table continued on next page.)

\*—Indicates open-pollinated variety. All others are hybrids.

(wh)—white grain.

\*\* Days after June 1. That is "23" is June 23rd; 39 is July 9th; etc.

Corn Performance Tests

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TABLE IX, Continued.

Rank	Strain	Silk Date**	Percent Lodged	Yield	Rank	Strain	Silk Date**	Percent Lodged	Yield
41	Missouri 148	37	5	44.2	81	Funk G-702	39	23	40.7
42	Indiana 826D	33	9	44.2	82	Missouri 8	39	31	40.7
43	Federal 6	38	20	44.2	83	Hendrix E	37	40	40.4
44	National 127	35	9	44.2	84	Hoosier Crost F-166	35	7	40.2
45	Kansas 2234 (wh)	37	40	44.1	85	Embro 1001	38	76	40.1
46	Mandelartz 287A	30	37	44.0					
47	Keystone 39	34	9	44.0	86	Hendrix L	39	38	39.9
48	U. S. 13	35	3	43.9	87	Wisconsin 606	30	27	39.9
49	Illinois 784	35	40	43.9	88	U. S. 63	33	23	39.8
50	Indiana 829C	34	14	43.8	89	Hoosier Crost 616	34	13	39.7
					90	National 132 <sub>2</sub>	38	21	39.6
51	Funk G-94	35	5	43.8	91	National 123	38	33	39.4
52	Brodbeck L93	36	18	43.8	92	Embro 1020	35	19	39.3
53	Indiana 608C	32	11	43.7	93	Texas 8	38	53	39.2
54	Ward 125	38	38	43.7	94	Dekalb 1022	39	38	38.8
55	Ohio M15	29	29	43.6	95	Maneldartz 6	31	44	38.5
56	Hoosier Crost F-139	32	7	43.6	96	Mandelartz 287	31	44	38.3
57	Embro 1325	41	34	43.6	97	Kansas 1583	41	28	38.2
58	Wisbred D66	31	13	43.5	98	Ohio K24	30	25	38.2
59	Keystone 40	38	14	43.5	99	Tennessee 10	39	42	37.8
60	Illinois 200	37	18	43.5	100	Wisconsin 455	24	31	37.5
61	U. S. 14	35	33	43.2	101	Texas 16	39	54	37.5
62	White 133W (wh)	38	27	43.0	102	Tennessee 14 (wh)	40	68	37.3
63	Illinois 21	36	6	42.9	103	Wisconsin 525	25	21	36.9
64	Ferris F11	30	3	42.8	104	Mandelartz 37	32	38	35.9
65	Funk G66	34	17	42.7	105	Embro 1020	34	17	35.7
66	U. S. 13	35	3	42.6	106	National 129	38	36	35.6
67	Iowearth 28N	35	20	42.6	107	Hoosier Crost 1005A	38	60	35.6
68	Funk G-711	41	55	42.2	108	U. S. 35	33	28	35.1
69	Iowearth 25A	38	19	42.2	109	*Hays Golden	33	62	34.8
70	Dekalb 1002	39	34	42.1	110	Tennessee 15 (wh)	39	73	34.5
71	Funk G-150	40	22	42.1	111	*Golden Republic	31	60	34.5
72	Illinois 246	34	12	42.1	112	Shannon 1600 (wh)	38	27	34.4
73	Illinois 350	34	27	42.0	113	*Dan Deihl Y. D.	33	78	34.4
74	Dekalb 888	34	24	42.0	114	Wisconsin 464	24	39	34.3
75	Missouri 8	38	29	41.5	115	*Reese Giant Y. D.	40	53	34.3
76	Keystone 38	34	16	41.5	116	Wisconsin 355	22	20	33.6
77	Hoosier Crost 840	34	6	41.4	117	Wisconsin 416	22	22	33.6
78	Kansas 1585	39	20	41.3	118	Iowearth T×1	40	47	33.6
79	Hendrix L <sub>2</sub>	39	46	41.3	119	*Reid Y. Dent 176A	34	71	33.3
80	Hoosier Crost F-181	35	4	41.2	120	*Pencil Cob	32	45	33.1

(Table continued on next page.)

\*—Indicates open-pollinated variety. All others are hybrids.

(wh)—white grain.

\*\* Days after June 1. That is "23" is June 23rd; 39 is July 9th; etc.

TABLE IX, Continued.

Rank	Strain	Silk Date**	Percent Lodged	Yield	Rank	Strain	Silk Date**	Percent Lodged	Yield
121	National 134t	39	9	32.5	133	Wisconsin 275	22	16	28.2
122	National 134th	41	53	32.4	134	National OK <sub>1</sub>	45	50	26.8
123	Texas 12	41	70	32.3	135	*W. Surcropper (wh)	40	73	26.8
124	Funk G-707	41	79	32.0	136	Texas 7W (wh)	39	70	26.3
125	*Reid Yellow Dent	40	53	31.9	137	*Yellow Surcropper	39	43	25.6
126	Wisconsin 420	23	10	31.1	138	*Ferguson Yellow D.	40	68	25.2
127	Keystone 42	36	21	31.1	139	Wisconsin 279	20	12	24.2
128	*Woods Corn (wh)	39	58	30.7	140	*75-day Dent	41	47	22.5
129	National 126-1	35	20	29.2	141	*Groenemans Mort. L	41	70	20.5
130	*White Corn (Verkvitz)	41	42	28.8	142	*Bloody Butcher	45	92	17.7
131	National 134D	39	55	28.7	143	*Squaw Corn	41	86	16.5
132	*Reese Y. D. Resister	41	47	28.3					

TABLE X—PAYNE COUNTY (Bottom land)  
Strains of EARLY Maturity.  
Herman Schroeder Farm; Stillwater, 2 miles west

A difference of less than 6.1 bushels per acre between any two strains should not be considered significant in this test.

Rank	Strain	Silk Date**	Percent Lodged	Yield	Rank	Strain	Silk Date**	Percent Lodged	Yield
1	Indiana 610B	28	4	44.6	18	Hoosier Crost F-139	27	13	39.1
2	Indiana 620	26	4	43.4	19	U. S. 14	30	1	39.0
3	Ferris F44-1	30	3	43.3	20	Hoosier Crost F-138	25	3	38.5
4	Indiana 608C	28	7	43.0	21	Indiana 210B	25	5	38.5
5	Hoosier Crost F-140	26	6	42.9	22	Wisconsin 606	24	13	38.2
6	Hoosier Crost 840	29	0	42.4	23	Pioneer 334	29	6	38.2
7	Indiana 826D	27	4	42.2	24	Ohio M34	23	5	37.6
8	Pioneer 339	27	7	40.3	25	Ohio M20	28	9	37.1
9	Hoosier Crost F-150	30	2	40.4	26	U. S. 35	29	11	37.1
10	Indiana 425B	28	1	40.2	27	Pioneer 336	29	2	36.7
11	Hoosier Crost 616	30	0	40.0	28	Pioneer 333	30	4	35.9
12	Mandelartz 287A	25	9	39.9	29	Wisbred D66	25	2	35.9
13	Ohio W10	27	1	39.9	30	Illinois 751	27	7	35.8
14	Funk G-114	24	2	39.8	31	Ohio K24	23	3	35.7
15	Ohio C38	26	6	39.7	32	*Cattle Corn (Late)	25	6	35.2
16	Indiana 829C	28	3	39.5	33	Mandelartz 287	25	17	35.1
17	Hoosier Crost F-181	30	1	39.2	34	*75-day Dent	33	19	34.4

(Table continued on next page.)

\*—Indicates open-pollinated variety. All others are hybrids.

(wh)—white grain.

\*\* Days after June 1. That is "23" is June 23rd; 39 is July 9th; etc.



TABLE X, Continued.

Rank	Strain	Silk Date**	Percent Lodged	Yield	Rank	Strain	Silk Date**	Percent Lodged	Yield
35	*Golden Republic	26	30	33.9	43	Wisconsin 416	21	9	28.1
36	Ohio M15	23	21	32.9	44	Wisconsin 464	21	14	27.6
37	*Cattle Corn (Early)	26	16	32.8	45	Wisconsin 455	23	17	25.4
38	Wisconsin 525	21	4	32.0	46	Wisconsin 355	21	19	23.6
39	Mandelartz 37	26	7	31.6	47	*Groenemans Mort. L.	40	14	23.1
40	*Pencil Cob	28	12	30.1	48	Wisconsin 275	19	26	22.7
41	*Squaw Corn	35	14	29.1	49	Wisconsin 279	17	9	19.3
42	Wisconsin 420	21	19	28.5					

TABLE XI—PAYNE COUNTY (Bottom land)  
 Strains of MID-SEASON Maturity  
 Herman Schroeder Farm; Stillwater, 2 miles west

A difference of less than 9.9 bushels per acre between any two strains should not be considered significant in this test.

Rank	Strain	Silk Date**	Percent Lodged	Yield	Rank	Strain	Silk Date**	Percent Lodged	Yield
1	Pioneer 332	30	1	61.1	25	Iowealth 28N	30	2	51.2
2	Missouri 148	30	3	60.9	26	Federal 22A	30	5	50.9
3	Keystone 40	32	3	59.2	27	Keystone 39	29	2	49.6
4	Ward 120A	30	8	58.7	28	Ferris F11	29	2	49.2
5	Brodbeck L93	29	3	58.3	29	Iowealth T×1	34	4	48.8
6	Pioneer 300	30	3	57.3	30	Hoosier Crost 746	31	2	48.7
7	Ohio L86	31	11	57.1	31	Shannon 1300	31	11	48.4
8	Dekalb 816	29	0	56.6	32	Dekalb 888	31	2	48.3
9	Hendrix E	32	8	56.5	33	National OK <sub>1</sub>	36	8	48.2
10	National 129	32	7	56.1	34	Keystone 38	30	3	47.8
11	National 132 <sub>2</sub>	32	10	55.9	35	Hoosier Crost 1005A	34	15	47.7
12	U. S. 13	30	2	55.6	36	National 118R	28	4	47.6
13	Missouri 313	29	10	54.4	37	Illinois 246	30	1	47.1
14	Hoosier Crost F-170	30	6	54.4	38	*Bloody Butcher	36	38	46.9
15	Federal 6	33	11	54.2	39	Hoosier Crost F-166	30	12	46.3
16	National 128	32	4	53.5	40	Indiana 844D	29	5	46.1
17	Funk G-94	32	2	53.3	41	Illinois 350	30	6	46.0
18	Indiana 818	31	5	53.2	42	U. S. 13	31	4	45.8
19	Ferris F44-1	31	3	53.0	43	Louisiana 468	40	28	45.5
20	Illinois 21	30	6	52.9	44	National 126-1	30	10	45.0
21	Ward 125	30	16	52.2	45	U. S. 63	28	1	43.2
22	Iowealth 26N	30	2	51.7	46	*Hays Golden	30	22	42.9
23	Ferris F31	31	1	51.6	47	*Dan Diehl Y. D.	32	33	42.5
24	National 127	30	13	51.2	48	Keystone 42	32	4	41.1

\*—Indicates open-pollinated variety. All others are hybrids.

(wh)—white grain.

\*\* Days after June 1. That is "23" is June 23rd; 39 is July 9th; etc.

TABLE XII—PAYNE COUNTY (Bottom land)  
Strains of LATE Maturity  
Herman Schroeder Farm; Stillwater, 2 miles west

A difference of less than 10.4 bushels per acre between any two strains should not be considered significant in this test.

Rank	Strain	Silk Date**	Percent Lodged	Yield	Rank	Strain	Silk Date**	Percent Lodged	Yield
1	Hendrix L	32	17	59.0	25	Shannon 1500	29	3	47.0
2	Dekalb 1022	31	13	57.4	26	Texas 16	32	14	46.9
3	Hendrix L <sub>2</sub>	29	16	55.7	27	*Reid Y. D. 176A	28	39	46.8
4	Kansas 1585	32	12	55.3	28	National 134	31	17	46.7
5	National 125	28	5	52.2	29	Texas 18	33	27	46.3
6	Tennessee 14 (wh)	34	26	51.8	30	Embro 1020	28	8	46.3
7	Missouri 8	31	18	51.7	31	Illinois 784	29	25	45.9
8	National 134D	33	11	51.6	32	Kansas 1583	34	16	45.8
9	Tennessee 15 (wh)	34	30	51.2	33	Tennessee 10 (wh)	31	4	45.5
10	Dekalb 1002	32	8	50.8	34	Texas 7W (wh)	32	20	45.5
11	National 123	29	12	50.8	35	National 134t	32	14	44.9
12	Funk G-711	34	12	49.5	36	Mandelartz 5	28	7	43.3
13	Funk G-702	33	24	49.5	37	Funk G-66	27	6	43.3
14	Missouri 8	30	15	49.1	38	*Reese Giant Y. D.	34	12	41.4
15	Texas 8	32	14	49.1	39	Funk G-707	36	32	40.4
16	Illinois 200	30	14	49.0	40	*Reid Yellow Dent	33	17	40.3
17	Kansas 2234 (wh)	30	7	48.8	41	Embro 1001	34	23	40.2
18	Texas 12	34	15	48.5	42	*Woods Corn (wh)	31	34	40.1
19	Shannon 1600 (wh)	31	19	48.4	43	National 134th	32	24	39.8
20	Funk G-150	32	12	48.2	44	Mandelartz 6	24	31	37.5
21	White 133W (wh)	33	3	47.9	45	*Reese Y. Dr. Resister	34	19	36.3
22	Iowearth 25A	29	5	47.7	46	*Ferguson Y. D.	34	16	36.3
23	Embro 1250	27	22	47.4	47	*White Surcropper	34	28	36.3
24	Embro 1325	33	24	47.4	48	*Yellow Surcropper	30	15	29.7

\*—Indicates open-pollinated variety. All others are hybrids.

\*\* Days after June 1. That is "23" is June 23rd; 39 is July 9th; etc.

(wh)—white grain.

TABLE XIII—PITTSBURG COUNTY (Second Bottom)  
E. W. Milford Farm; Pittsburg, 1 mile east and 2 miles south

A difference of less than 7.1 bushels per acre between any two strains should not be considered significant in this test.

Rank	Strain	Yield	Rank	Strain	Yield
1	Texas 12	42.6	6	Iowearth T×1	38.5
2	Missouri 148	42.5	7	Funk G-150	38.4
3	Kansas 1585	42.0	8	Hoosier Crost 1005A	37.7
4	Kansas 2234 (wh)	41.0	9	Illinois 200	37.6
5	Texas 7W (wh)	39.3	10	Illinois 784	37.5

(Table continued on next page.)

\*—Indicates open-pollinated variety. All others are hybrids.

(wh)—white grain.

TABLE XIII, Continued.

Rank	Strain	Yield	Rank	Strain	Yield
11	Missouri 8	37.0	31	U. S. 13	31.9
12	Kansas 1583	36.9	32	Ohio C38	31.6
13	Texas 8	36.9	33	*Woods Corn (wh)	31.3
14	Pioneer 332	36.6	34	Shannon 1500	30.3
15	Tennessee 10 (wh)	36.5	35	*75-day Dent	30.1
16	Texas 16	36.2	36	Ohio K24	29.2
17	Funk G-707	36.0	37	*Yellow Surcropper	29.2
18	National 134D	35.8	38	Wisconsin 606	28.9
19	Missouri 313	35.7	39	*Reid Yellow Dent 176A	28.8
20	Illinois 751	35.4	40	*Hays Golden	27.5
21	Ohio L86	35.4	41	Hoosier Crost F-140	27.4
22	*Groenemans Mortgage L.	34.8	42	Shannon 1300	27.2
23	Tennessee 14 (wh)	34.5	43	U. S. 35	26.6
24	Tennessee 15 (wh)	34.5	44	U. S. 63	26.4
25	Indiana 610B	34.1	45	*White Surcropper (wh)	25.5
26	Embro 1020	33.7	46	Ohio M15	24.1
27	Indiana 826D	33.5	47	*Ferguson Yellow Dent	22.1
28	U. S. 14	33.3	48	Wisconsin 525	21.9
29	Illinois 350	32.9	49	Wisconsin 355	14.4
30	Pioneer 334	32.2			

\*—Indicates open-pollinated variety. All others are hybrids. (wh)—white grain.

TABLE XIV—SEMINOLE COUNTY (North Canadian Bottom)  
Ambrose Crain Farm; Prague, 8 miles south and 3 miles west

A difference of less than 16.5 bushels per acre between any two strains should not be considered significant in this test.

Rank	Strain	Yield	Rank	Strain	Yield
1	Tennessee 14 (wh)	113.7	19	Pioneer 332	82.0
2	Funk G-150	106.3	20	Pioneer 339	81.9
3	Kansas 1585	105.9	21	Missouri 8	81.4
4	Tennessee 10 (wh)	105.4	22	Iowealth T×1	81.3
5	Kansas 2234 (wh)	102.4	23	Texas 8	80.3
6	Tennessee 15 (wh)	100.3	24	Indiana 610B	80.0
7	Texas 12	98.5	25	Keystone 38	79.8
8	Kansas 1583	98.0	26	Illinois 200	78.6
9	Hendrix L	95.1	27	Iowealth 28N	78.5
10	Hendrix E	94.9	28	Indiana 425B	77.2
11	U. S. 14	91.7	29	*Oklahoma Silvermine (wh)	77.1
12	National 132	90.5	30	Illinois 784	75.5
13	*Groenemans Mortgage L.	87.0	31	*75-day Dent	75.2
14	Missouri 148	86.0	32	Indiana 829C	75.2
15	Texas 7W (wh)	85.0	33	U. S. 13	74.7
16	Pioneer 336	84.9	34	Illinois 350	72.1
17	Funk G-707	84.3	35	National 134D	71.7
18	Texas 16	84.0	36	Embro 1020	71.1

\*—Indicates open-pollinated variety. All others are hybrids. (wh)—white grain.

TABLE XIV, Continued.

Rank	Strain	Yield	Rank	Strain	Yield
37	Dekalb 888	69.7	44	*Woods Corn (wh)	63.1
38	Iowa 25A	69.6	45	Ferris F11	61.8
39	Illinois 246	68.2	46	*Yellow Surcropper	57.9
40	*Ferguson Yellow Dent	67.1	47	U. S. 63	57.4
41	Indiana 826D	66.3	48	U. S. 35	55.0
42	*Reid Yellow Dent	65.6	49	Mandelartz 6	54.4
43	*Hays Golden	63.6			

\*—Indicates open-pollinated variety. All others are hybrids.

(wh)—white grain.

TABLE XV—TULSA COUNTY (Bottom land)  
Oklahoma Vegetable Research Station; Bixby, 1½ miles  
northeast (across river)

A difference of less than 8.9 bushels per acre between any two strains should not be considered significant in this test.

Rank	Strain	Yield	Rank	Strain	Yield
1	Ohio C38	4 72.5	26	Shannon 1300	8 58.8
2	Funk G-114	3 70.8	27	Indiana 425B	2 57.8
3	Pioneer 339	5 69.5	28	U. S. 13	4 57.3
4	Indiana 844D	6 67.3	29	Embro 1020	1 57.0
5	Ohio M20	12 66.7	30	Hoosier Crost F-139	10 56.3
6	Illinois 246	16 66.7	31	Ohio M34	7 56.0
7	Ohio K24	3 64.4	32	Hoosier Crost F-181	4 55.9
8	Illinois 350	23 64.2	33	Hoosier Crost 616	10 55.7
9	Illinois 200	7 64.1	34	Hoosier Crost F-140	7 55.1
10	Indiana 210B	4 63.9	35	U. S. 63	2 54.9
11	Pioneer 334	29 63.7	36	U. S. 35	3 54.5
12	Indiana 610B	10 63.0	37	*Hays Golden	66 51.9
13	Illinois 21	9 63.0	38	Wisconsin 525	24 50.5
14	Hoosier Crost F-138	13 62.9	39	Wisconsin 355	14 48.5
15	Ohio W10	9 62.8	40	*Groenemans Mort. L.	55 48.4
16	Indiana 608C	9 62.7	41	*Ferguson Y. D.	63 47.2
17	Indiana 620	3 62.2	42	*Woods Corn (wh)	78 46.7
18	Ferris F44-1	11 61.7	43	Wisconsin 455	14 44.9
19	Hoosier Crost F-150	8 61.3	44	*Reid Yellow Dent	34 43.7
20	Hoosier Crost 840	0 61.3	45	*Pencil Cob	39 41.3
21	U. S. 14	15 60.5	46	*Oklahoma Silvm. (wh)	51 37.7
22	Indiana 829C	1 60.1	47	Wisconsin 279	6 36.7
23	Ohio M15	20 59.8	48	*75-day Dent	42 34.7
24	Pioneer 336	12 59.5	49	Wisconsin 275	10 33.9
25	Illinois 784	15 59.3			

\*—Indicates open-pollinated variety. All others are hybrids.

(wh)—white grain.

**TABLE XVI—WAGONER COUNTY (Choska Bottom)  
Weaver O'Bar Farm, Coweta**

A difference of less than 15.4 bushels per acre between any two strains should not be considered significant in this test.

Rank	Strain	Yield	Rank	Strain	Yield
1	Hendrix E	62.6	26	Keystone 38	43.9
2	Tennessee 14 (wh)	61.6	27	Iowealth T×1	43.7
3	Texas 16	61.4	28	*Hays Golden	43.2
4	Texas 12	56.9	29	U. S. 35	43.0
5	Kansas 2234 (wh)	56.7	30	*Reid Yellow Dent	42.9
6	Tennessee 15 (wh)	55.4	31	*Ferguson Yellow Dent	42.8
7	Funk G-707	53.9	32	Indiana 425B	42.1
8	U. S. 14	53.8	33	U. S. 13	39.3
9	Texas 8	52.9	34	Illinois 784	39.2
10	Pioneer 339	51.4	35	Iowealth 25A	38.8
11	Hendrix L	51.1	36	Indiana 826D	38.6
12	Missouri 148	50.7	37	Indiana 829C	38.2
13	National 132 <sub>2</sub>	50.7	38	Kansas 1585	37.5
14	Illinois 200	50.5	39	Embro 1020	36.7
15	*Groenemans Mortgage L.	50.1	40	Dekalb 888	35.8
16	Iowealth 28N	49.1	41	Tennessee 10 (wh)	34.6
17	Pioneer 332	48.8	42	U. S. 63	34.4
18	Illinois 350	48.3	43	*75-day Dent	33.2
19	Missouri 8	47.9	44	Mandelartz 6	32.7
20	Funk G-150	47.9	45	*Oklahoma Silvermine (wh)	32.3
21	Pioneer 336	47.4	46	Illinois 246	31.5
22	*Woods Corn (wh)	46.6	47	Indiana 610B	31.0
23	National 134D	45.6	48	Ferris F11	30.5
24	Kansas 1583	44.6	49	*Yellow Surcropper	28.5
25	Texas 7W (wh)	44.5			

\*—Indicates open-pollinated variety. All others are hybrids.

(wh)—white grain.

## SUMMARIES

**TABLE XVII—SUMMARY—UPLAND LOCATIONS, 1944**  
*Yields of Hybrid Strains as Percent of Average Yield of Five Open-pollinated Varieties Grown at Same Location.*

(Yields of hybrids in bushels per acre are given in the county tables on preceding pages.)

	Bryan County	Craig County	Grady County	Payne County	Average
<b>Percent of Check</b>					
1 National 125	170.3	----	----	163.8	167.1
2 Ohio C38	136.9	----	200.5	160.7	166.0
3 Ferris F44-1	----	----	157.4	170.9	164.2
4 Indiana 818	131.5	----	196.8	161.0	163.1
5 Keystone 39	----	137.8	179.3	150.1	155.7
6 Funk G-94	155.9	----	----	149.4	152.7
7 Indiana 844D	----	150.0	----	154.6	152.3
8 Dekalb 816	150.5	----	----	153.9	152.2
9 Illinois 751	102.7	----	186.7	167.2	152.2
10 Missouri 313	----	139.5	----	164.5	152.0
11 Indiana 826D	137.8	170.4	145.7	150.8	151.2
12 Missouri 148	142.3	137.8	168.1	150.8	149.8
13 Indiana 425B	----	133.9	----	162.4	148.3
14 Shannon 1300	----	136.5	----	159.0	147.8
15 Pioneer 332	103.6	130.0	186.2	169.2	147.3
16 Funk G-114	145.9	131.3	137.8	172.6	146.9
17 Pioneer 336	127.0	150.4	151.1	158.7	146.8
18 Indiana 608C	159.5	126.5	----	149.1	145.0
19 Pioneer 339	----	127.8	155.3	151.2	144.8
20 Kansas 2234 (wh)	136.0	----	----	150.5	143.3
21 Pioneer 333	----	120.4	----	165.5	143.0
22 Keystone 38	----	152.6	134.0	141.6	142.7
23 Indiana 610B	110.8	126.1	164.9	155.9	139.4
24 Ferris F31	117.7	----	129.3	167.9	138.1
25 Ohio W10	84.7	----	162.8	164.1	137.2
26 U. S. 13	85.6	126.5	178.2	145.4	133.9
27 Indiana 620	114.4	126.5	----	160.0	133.6
28 Pioneer 334	99.1	100.9	145.2	163.4	127.1
29 Kansas 1583	115.3	156.1	----	130.3	120.6
30 Mandelartz 287A	----	89.1	----	150.1	119.6
<b>Check: Yield of Open-pollinated Varieties in Bushels Per Acre</b>					
1 *Woods Corn	15.2	33.5	19.7	30.7	24.8
2 *Hays Golden	10.2	28.7	18.6	34.8	23.1
3 *Reids Yellow Dent	10.3	15.7	21.7	33.3	20.3
4 *75-day Dent	11.6	22.2	17.1	22.5	18.4
5 *Ferguson Yellow Dent	8.3	14.8	16.9	25.2	16.3
Average of Check Varieties	11.1	23.0	18.8	29.3	
Average of Check Varieties Equals	100.0%	100.0%	100.0%	100.0%	

\*—Indicates open-pollinated variety. All others are hybrids.

(wh)—white grain.

**TABLE XVIII—SUMMARY—BOTTOMLAND LOCATIONS OF MEDIUM FERTILITY, 1944**

*Yields of Hybrids as Percent of Average Yield of Five Open-pollinated Varieties Grown at Same Location.*

(Yields of hybrids in bushels per acre are given in the county tables on preceding pages.)

	Grady County	Payne County	Pittsburg County	Tulsa County	Average
<b>Percent of Check</b>					
1 Ohio L86	187.8	151.0	122.5	-----	153.8
2 Missouri 148	135.7	161.1	147.1	-----	148.0
3 Ferris F44-1	147.2	140.2	-----	-----	143.7
4 Pioneer 332	139.0	161.6	126.6	-----	142.4
5 Kansas 1583	168.1	121.1	127.7	-----	139.0
6 Illinois 21	-----	139.9	-----	132.3	136.1
7 Kansas 22 <sup>2</sup> 4 (wh)	133.0	129.1	141.9	-----	134.7
8 Funk G-150	138.4	127.5	132.9	-----	132.9
9 Indiana 844D	-----	121.9	-----	141.3	131.6
10 Iowearth T×1	-----	129.1	133.2	-----	131.2
11 Texas 7W (wh)	135.2	120.3	136.0	-----	130.5
12 Illinois 200	126.9	129.6	130.1	134.6	130.3
13 National 134D	130.2	136.5	123.9	-----	130.2
14 Kansas 1585	98.9	146.3	145.3	-----	130.2
15 Tennessee 10	141.2	120.3	126.3	-----	129.3
16 Texas 12	111.0	128.3	147.4	-----	128.9
17 Pioneer 334	140.6	127.5	111.4	133.8	128.3
18 Indiana 818	115.9	140.7	-----	-----	128.3
19 Missouri 8	118.7	136.7	128.0	-----	127.8
20 Ferris F31	118.7	136.5	-----	-----	127.6
21 Illinois 246	117.0	124.6	-----	140.1	127.2
22 Funk G-114	-----	105.3	-----	148.7	127.0
23 Pioneer 339	-----	107.4	-----	146.0	126.7
24 U. S. 14	154.9	103.2	115.2	127.1	125.1
25 Illinois 751	157.1	94.7	122.5	-----	124.8
26 U. S. 13	120.9	147.1	110.4	120.3	124.7
27 Ohio C38	130.8	105.0	109.3	152.3	124.4
28 Tennessee 14 (wh)	104.4	137.0	119.4	-----	120.3
29 Tennessee 15 (wh)	104.4	135.4	119.4	-----	119.7
30 Ohio M20	-----	98.1	-----	140.1	119.1
31 Indiana 210B	-----	101.8	-----	134.2	118.0
32 Ohio K24	138.4	94.4	101.0	135.2	117.3
33 U. S. 35	157.1	98.1	92.0	114.5	115.4
34 U. S. 63	134.6	114.3	91.3	115.3	113.9
<b>Check: Yield of Open-pollinated Varieties in Bushels Per Acre</b>					
1 *Hays Golden	21.2	42.9	27.5	51.9	35.9
2 *Reids Yellow Dent	20.4	46.8	28.8	43.7	34.9
3 *Woods Corn	19.1	40.1	31.3	46.7	34.3
4 *Ferguson Yellow Dent	18.5	36.3	22.1	47.2	31.0
5 *Groenemans Mortg. Lifter	11.7	23.1	34.8	48.4	29.5
Average of Check Varieties	18.2	37.8	28.9	47.6	
Average of Check Varieties Equals	100.0%	100.0%	100.0%	100.0%	

\*—Indicates open-pollinated variety. All others are hybrids.

(wh)—white grain.

**TABLE XIX—SUMMARY—BOTTOMLAND LOCATIONS OF HIGH FERTILITY, 1944**  
*Yields of Hybrid Strains as Percent of Average Yield of Five Open-pollinated Varieties Grown at Same Location.*

(Yields of hybrids in bushels per acre are given in the county tables on preceding pages.)

	Bryan County	Garvin County	Seminole County	Wagoner County	Average
<b>Percent of Check</b>					
1 Funk G-711	164.0	157.8	-----	-----	160.9
2 National 134th	149.3	164.5	-----	-----	156.9
3 National 134t	158.1	148.1	-----	-----	153.1
4 Tennessee 14 (wh)	133.0	143.8	179.0	150.9	151.6
5 Hendrix E	-----	-----	149.4	153.4	151.4
6 Texas 12	144.7	153.0	155.0	139.4	148.0
7 Kansas 2234 (wh)	149.7	124.9	161.2	-----	145.3
8 Funk G-150	147.6	-----	167.3	117.4	144.1
9 Funk G-707	-----	154.5	132.7	132.1	139.8
10 Texas 8	166.9	135.6	126.4	129.6	139.6
11 Tennessee 15	131.8	128.8	157.9	135.7	138.6
12 Texas 7W (wh)	165.1	139.3	133.8	109.0	136.8
13 Kansas 1585	139.4	140.7	166.7	91.9	134.7
14 Tennessee 10	142.1	143.0	165.9	84.8	134.0
15 Kansas 1583	144.4	124.9	154.3	109.3	133.2
16 Iowearth T×1	154.9	139.2	128.0	107.1	132.4
17 Texas 16	138.8	106.8	132.2	150.4	132.1
18 Pioneer 334	150.5	109.5	-----	-----	130.0
<b>Check: Yield of Open-pollinated Varieties in Bushels Per Acre</b>					
1 *Ferguson Yellow Dent	39.7	103.9	67.1	42.8	63.4
2 *Reid Yellow Dent	36.7	82.1	65.6	42.9	56.8
3 *Woods Corn	29.8	73.0	63.1	46.6	53.1
4 *Hays Golden	32.6	67.1	63.6	43.2	51.6
5 *Yellow Surcropper	32.8	52.0	57.9	28.5	42.8
Average of Check Varieties	34.2	75.6	63.5	40.8	
Average of Check Varieties Equals	100.0%	100.0%	100.0%	100.0%	

\*—Indicates open-pollinated variety. All others are hybrids.

(wh)—white grain.



TABLE XX—SUMMARY—PAYNE COUNTY (Upland)  
Oklahoma Agricultural Experiment Station Farm, Perkins

Rank	Strain	Percent Lodged	Yield	Rank	Strain	Percent Lodged	Yield
<b>Four-year Average, 1941, 1942, 1943, 1944</b>							
1	Hoosier Crost F-140	--	33.9	9	Missouri 8	--	26.6
2	Pioneer 334	--	33.8	10	*Hays Golden	--	26.2
3	Hoosier Crost F-150	--	33.5	11	*Golden Republic	--	26.0
4	Pioneer 332	--	32.2	12	National 134D	--	25.3
5	Hoosier Crost F-138	--	32.1	13	*Wood's Corn (wh)	--	24.0
6	Hoosier Crost F-139	--	30.7	14	*Ferguson Yellow Dent	--	23.3
7	U. S. 13	--	30.3	15	*Reid Yellow Dent	--	20.3
8	Iowealth T×1	--	26.7				
<b>Two-year Average, 1943 and 1944</b>							
1	Illinois 751	30	34.2	29	Funk G-702	37	27.0
2	Pioneer 334	29	34.0	30	Hendrix L	39	26.8
3	Hoosier Crost F-150	27	33.7				
4	Pioneer 332	31	33.6	31	Hendrix L <sub>2</sub>	38	26.4
5	Hoosier Crost F-140	27	33.3	32	Funk G-150	36	26.2
				33	Missouri 8	34	26.2
6	Hoosier Crost F-138	28	32.3	34	Kansas 1585	37	25.9
7	Hoosier Crost 746	31	31.8	35	Tennessee 10	37	25.6
8	U. S. 14	32	30.9				
9	National 134	35	30.8	36	Texas 8	36	24.7
10	Illinois 784	36	30.7	37	Hoosier Crost 1005A	32	24.7
				38	National 129	32	24.6
11	National 125	33	30.6	39	Iowealth T×1	35	24.2
12	Funk G-94	33	30.5	40	Tennessee 14 (wh)	37	24.0
13	Hoosier Crost F-139	27	30.4				
14	National 127	34	30.3	41	*Hays Golden	30	23.8
15	Keystone 39	33	30.3	42	Keystone 42	35	23.8
				43	Kansas 1583	40	23.6
16	Keystone 40	35	29.6	44	*Reid Yellow Dent 176A	33	23.5
17	Illinois 200	36	29.6	45	*Golden Republic	29	23.2
18	Kansas 2234 (wh)	34	29.4				
19	U. S. 13	30	29.4	46	National 134th	37	22.4
20	Hoosier Crost 616	33	29.3	47	Tennessee 15 (wh)	37	22.2
				48	National 134D	35	20.6
21	Keystone 38	33	29.2	49	*Woods Corn (wh)	34	20.5
22	Mandelartz 287	27	28.8	50	Texas 12	38	20.4
23	Hoosier Crost F-181	32	28.7				
24	Hoosier Crost 840	30	28.4	51	Funk G-707	39	20.3
25	Hendrix E	36	28.3	52	*Reid Yellow Dent	34	20.2
26	Iowealth 25A	35	27.6	53	*Ferguson Yellow Dent	35	17.3
27	Funk G-711	40	27.5	54	*White Surcropper (wh)	37	14.8
28	U. S. 35	32	27.1	55	*Yellow Surcropper	36	14.1

\*—Indicates open-pollinated variety. All others are hybrids. (wh)—white grain.

**TABLE XXI—SUMMARY—PAYNE COUNTY (Bottom land)**  
*Oklahoma Agricultural Experiment Station Farm, Stillwater*

Rank	Strain	Percent Lodged	Yield	Rank	Strain	Lodged Percent	Yield
<b>Four-year Average, 1940, 1941, 1942 and 1944</b>							
1	U. S. 13	27	52.7	8	*Reid Yellow Dent 176A	26	41.2
2	Pioneer 332	27	49.6	9	*Woods Corn (wh)	29	38.7
3	National 134D	30	48.3	10	*Golden Republic	25	38.5
4	Iowealth T×1	32	46.8	11	*Ferguson Yellow Dent	31	38.2
5	Iowealth 28N	27	45.5	12	*White Surcropper (wh)	30	35.9
6	Missouri 8	28	42.2	13	*Reid Yellow Dent	30	35.6
7	*Hays Golden	27	41.8	14	*Yellow Surcropper	29	28.4
<b>Two-year Average, 1942 and 1944</b>							
1	Funk G-150	29	65.2	19	Hoosier Crost F-150	27	45.4
2	U. S. 13	27	60.0	20	Funk G-66	26	44.7
3	National 134D	30	59.2	21	National 126-1	28	44.3
4	National 129	28	59.2	22	Pioneer 334	27	44.1
5	Pioneer 332	27	56.9	23	Missouri 8	28	44.0
6	Tennessee 14 (wh)	31	55.8	24	Hoosier Crost F-139	25	44.0
7	Texas 12	32	54.7	25	U. S. 35	26	43.9
8	Iowealth 28N	27	52.3	26	Mandelartz 287A	23	43.8
9	Texas 8	30	51.4	27	Ohio C38	24	43.5
10	Reid Yellow Dent 176A	26	51.2	28	*Hays Golden	27	43.5
11	Tennessee 10 (wh)	30	50.7	29	Hoosier Crost F-138	23	43.3
12	Iowealth 26N	27	50.7	30	Hoosier Crost F-140	24	43.2
13	Iowealth T×1	32	50.5	31	*Woods Corn (wh)	29	42.2
14	Funk G-702	31	50.4	32	*White Surcropper	30	40.8
15	Tennessee 15 (wh)	32	49.7	33	*Golden Republic	25	36.7
16	*Ferguson Yellow Dent	31	47.5	34	*Reid Yellow Dent	30	36.3
17	Illinois 751	25	46.4	35	Mandelartz 287	24	32.7
18	U. S. 14	27	45.7	36	*Yellow Surcropper	29	31.1

\*—Indicates open-pollinated variety. All others are hybrids.

(wh)—white grain.

**TABLE XXII—SUMMARY—CARTER COUNTY (Upland)**  
*Southern Oklahoma Soil Improvement Station Lone Grove,*  
*½ mile west.*

Rank	Strain	Yield	Rank	Strain	Yield
<b>Three-year Average 1942, 1943, 1944</b>					
1	U. S. 14	30.7	7	*Reid Yellow Dent 176A	26.1
2	Pioneer 332	29.6	8	*Ferguson Yellow Dent	24.3
3	U. S. 35	29.5	9	*Woods Corn (wh)	23.2
4	U. S. 13	27.7	10	*Yellow Surcropper	22.0
5	Pioneer 334	26.7	11	*Reid Yellow Dent	21.5
6	Illinois 751	26.4	12	*Hays Golden	20.7

\*—Indicates open-pollinated variety. All others are hybrids.

(wh)—white grain.

## POPCORN TESTS\*

TABLE XXIII—BRYAN COUNTY (Red River Bottom)  
R. W. Reeves Farm, Bennington, 10 miles south

Rank	Strain	Yield	Rank	Strain	Yield
1	Purdue Hybrid No. 31	1013	6	Purdue Hybrid 40	634
2	Purdue Hybrid No. 38	868	7	*South American	510
3	Purdue Hybrid No. 32	711	8	Purdue Hybrid No. 23	394
4	Purdue Hybrid No. 3	685	9	Purdue Hybrid No. 20	74
5	Purdue Hybrid No. 1	661			

\* Indicates open-pollinated variety. All others are hybrid strains.

TABLE XXIV—LeFLORE COUNTY (upland)  
Eastern Oklahoma Soil Improvement Station; Heavener, 1 mi. north

Rank	Strain	Yield	Rank	Strain	Yield
1	Purdue Hybrid 1	1540	6	Purdue Hybrid 23	1311
2	Purdue Hybrid 32	1437	7	*South American Yellow	1196
3	Purdue Hybrid 38	1415	8	Purdue Hybrid 3	1185
4	Purdue Hybrid 31	1378	9	Purdue Hybrid 20	615
5	Purdue Hybrid 40	1356			

\* Indicates open-pollinated variety. All others are hybrid strains.

TABLE XV—PAYNE COUNTY (upland)  
Oklahoma Agricultural Experiment Station Farm; Perkins  
1 mile north and 1 west

Rank	Strain	Yield	Rank	Strain	Yield
1	Purdue Hybrid 38	989	9	*South American Yellow (1)	626
2	Purdue Hybrid 1	968	10	*Golden Queen	573
3	Purdue Hybrid 32	935	11	*Red Pop Corn	551
4	Purdue Hybrid 31	896	12	*South American Yellow (3)	491
5	Purdue Hybrid 3	829	13	Purdue Hybrid 20	313
6	Purdue Hybrid 40	796	14	*Jap Rice	246
7	*South American Yellow (2)	690	15	*Black Mexican (1)	188
8	Purdue Hybrid 23	651	16	*Black Mexican (2)	111

Number in parenthesis after strain name indicates seed source.

\* Indicates open-pollinated variety. All others are hybrid strains.

\* Popcorn tests are not corrected for plant stand.

## INDEX OF STRAINS and Sources of Seed

Source	Strain	Tables
Quality Seed & Grain Co., Chickasha, Okla.	*Bloody Butcher	9, 11
Brodbeck Brothers, Wabash, Ind.	Brodbeck L93	9, 11
Durward Campbell, Stillwater, Okla.	*Cattle Corn	10
Dan Diehl, Stillwater, Okla.	*Dan Diehl Yellow Dent	9, 11
Quality Seed & Grain Co., Chickasha, Okla.	*75-day Dent	1, 2, 3, 4, 5, 6, 7, 9, 10, 13, 14, 15, 16
Dekalb Agricultural Association, Dekalb, Ill.	Dekalb 816	1, 3, 9, 11, 17
	Dekalb 888	3, 9, 11, 14, 16
	Dekalb 1002	9, 12
	Dekalb 1022	3, 9, 12
Ed. F. Mangelsdorf, Atchison, Kan.	Embros 1001	3, 9, 12
	Embros 1020	3, 4, 6, 7, 9, 12, 13, 14, 15, 16
	Embros 1250	2, 9, 12
	Embros 1325	3, 6, 7, 9, 12
Federal Hybrid Seed Corn Co., Cedar Rapids, Iowa	Federal 6	9, 11
	Federal 22A	3, 9, 11
Ferguson Seed Farms, Howe, Texas	*Ferguson Yellow dent	1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 20, 21, 22
Ferris Hybrids, Princeton, Ill.	Ferris F-11	3, 9, 11, 14, 16
	Ferris F-31	1, 2, 3, 6, 7, 9, 11, 17, 18
	Ferris F-44-1	2, 3, 6, 7, 9, 10, 11, 15, 17, 18
Funk Bros. Seed Co., Bloomington, Ill.	Funk G-66	3, 9, 12, 21
	Funk G-88	3, 6
	Funk G-94	1, 3, 9, 11, 17, 20
	Funk <b>G-114</b>	1, 3, 4, 6, 9, 10, 15, 17, 18
	Funk G-135	3
	Funk G-150	2, 7, 9, 12, 13, 14, 16, 18, 19, 20, 21
	Funk G-702	2, 5, 9, 12, 20, 21
	Funk G-707	1, 5, 6, 7, 9, 12, 13, 14, 16, 19, 20
	Funk G-711	2, 5, 9, 12, 19, 20

Source	Strain	Tables
J. H. Kuhn, Belleville, Kan.	*Golden Republic	9, 10, 20, 21
Aherns Hybrid Corn & Co., Grinnell, Iowa	Grinnelean 339	9
Gaston Franks, Miami, Okla.	*Groenemans Mortgage Lifter	3, 4, 7, 9, 10, 13, 14, 15, 16
Oklahoma Experiment Station, Stillwater, Okla.	*Hays Golden	1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 14, 15, 16, 20, 21, 22
J. A. Hendrix, Co. Agt., Garnett, Kan.	Hendrix E	3, 6, 9, 11, 14, 16, 19, 20
	Hendrix L	9, 12, 14, 16, 20
	Hendrix L <sub>2</sub>	9, 12, 20
Edward J. Funk & Sons, Kentland, Ind.	Hoosier Crost F-138	9, 10, 15, 20, 21
	Hoosier Crost F-139	9, 10, 15, 20, 21
	Hoosier Crost F-140	9, 10, 13, 15, 20, 21
	Hoosier Crost F-150	9, 10, 15, 20, 21
	Hoosier Crost F-166	9
	Hoosier Crost F-170	9, 11
	Hoosier Crost F-181	9, 10, 15, 20
	Hoosier Crost 616	9, 10, 15, 20
	Hoosier Crost 746	9, 11, 20
	Hoosier Crost 840	9, 10, 15, 20
	Hoosier Crost 1005A	9, 11, 13, 20
G. E. Hulting & Son, Geneseo, Ill.	Illinois 21	} 9, 11, 15, 18
Frey Hybrid Corn Co., Gilnan, Ill.	Illinois 21	
Ed. F. Mangelsdorf, Atchison, Kan.	Illinois 200	1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 18, 20
G. C. Hulting & Son, Geneseo, Ill.	Illinois 246	1, 3, 4, 7, 9, 11, 14, 15, 16, 18
Ferris Hybrids, Princeton, Ill.	Illinois 350	1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 14, 15, 16
	Illinois 751	1, 3, 5, 6, 7, 9, 10, 13, 17, 18, 20, 21, 22
Ed. F. Mangelsdorf, Atchison, Kan.	Illinois 784	3, 4, 5, 6, 7, 9, 12, 13, 14, 15, 16, 20
Brodbeck Brothers, Wabash, Ind.	Indiana 210B	9, 10, 15, 18
	Indiana 425B	2, 3, 4, 8, 9, 10, 14, 15, 16, 17
	Indiana 608C	1, 3, 4, 8, 9, 10, 15, 17
Marshall & Harvey, Mt. Summit, Ind.	Indiana 610B	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 14, 15, 16, 17
	Indiana 620	1, 3, 4, 7, 9, 10, 15, 17
Cortelyou Bros., Edinburg, Ind.	Indiana 818	1, 2, 3, 5, 6, 7, 9, 11, 17, 18
	Indiana 826D	1, 3, 4, 6, 7, 9, 10, 13, 14, 16, 17

Source	Strain	Tables
Cortelyou Bros., Edinburg, Ind.	Indiana 829C	3, 9, 10, 14, 15, 16
	Indiana 844D	1, 2, 3, 4, 5, 8, 9, 11, 15, 17, 18
Michiel-Leonard, Sioux City, Iowa	Iowealth T×1	2, 3, 5, 9, 11, 13, 14, 16, 18, 19, 20, 21
	Iowealth 25A	5, 9, 12, 14, 16, 20
	Iowealth 26N	3, 5, 9, 11, 21
	Iowealth 28N	1, 2, 3, 4, 6, 9, 11, 14, 16, 21
	Iowealth W28	2
	Kansas Experiment Station, Manhattan, Kan.	Kansas 1583
	Kansas 1585	2, 3, 5, 7, 9, 12, 13, 14, 15, 16, 18, 19, 20
	Kansas 2234 (wh)	1, 2, 3, 5, 7, 9, 12, 13, 14, 15, 16, 17, 18, 19, 20
Corneli Seed Co., St. Louis, Mo.	Keystone 38	2, 3, 4, 6, 9, 11, 14, 16, 17, 20
	Keystone 39	4, 5, 6, 9, 11, 17, 20
	Keystone 40	9, 11, 20
	Keystone 42	2, 3, 5, 6, 9, 11, 20
H. B. Mandelartz, Hydro, Okla.	Mandelartz 5	9, 12
	Mandelartz 6	9, 14, 16
	Mandelartz 37	3, 4, 6, 9, 10
	Mandelartz 287	1, 3, 4, 6, 9, 10, 20, 21
	Mandelartz 287A	3, 4, 9, 10, 17, 21
Ed. F. Mangelsdorf, Atchison, Kan.	Missouri 8	} 1, 2, 3, 4, 5, 6, 7, 9, 12, 13, 14, 16, 18, 20, 21
C. F. McMullin Estate, Sikeston, Mo.	Missouri 8	
	Missouri 148	1, 2, 3, 4, 5, 6, 7, 9, 11, 13, 14, 16, 17, 18
	Missouri 313	3, 4, 9, 11, 13, 17
Reid-National Corn Co., Anamosa, Iowa	National 118R	2, 9, 11
	National 123	1, 9, 12
	National 125	1, 9, 12, 17, 20
	National 126 <sub>1</sub>	3, 4, 6, 9, 11, 21
	National 127	3, 9, 11, 20
	National 128	11
	National 129	3, 5, 9, 11, 20, 21, 22
	National 132 <sub>2</sub>	3, 5, 6, 9, 11, 14, 16
	National 134	2, 7, 9, 12, 20
	National 134D	3, 6, 7, 9, 12, 13, 14, 16, 18, 20, 21, 22
	National 134t	2, 5, 9, 12, 19

Source	Strain	Tables
Reid-National Corn Co., Anamosa, Iowa	National 134th	2, 5, 9, 12, 19, 20
	National OK <sub>1</sub>	3, 9, 11
Ohio Experiment Station, Wooster, Ohio	Ohio G-38	1, 3, 6, 7, 9, 10, 13, 15, 17, 18, 21
	Ohio K-24	1, 3, 6, 7, 9, 10, 13, 15, 18
	Ohio L-86	2, 3, 5, 7, 9, 11, 13, 18
	Ohio M-15	1, 3, 6, 7, 9, 10, 13, 15
	Ohio M-20	3, 9, 10, 15, 18
	Ohio M-34	3, 9, 10, 15
	Ohio W-10	1, 3, 6, 9, 10, 15, 17
Chickasha Seed Growers Co., Chickasha, Okla.	*Oklahoma Silver- mine (wh)	3, 4, 7, 14, 15, 16
C. L. Briscoe, Marlow, Okla.	*Pencil Cob	3, 4, 6, 9, 10, 15
Pioneer Hybrid Corn Co., Coon Rapids, Iowa	Pioneer 300	1, 2, 3, 9, 11
	Pioneer 332	1, 2, 3, 4, 5, 6, 7, 9, 11, 13, 14, 16, 17, 18, 20, 21, 22
	Pioneer 333	3, 4, 9, 10, 17
	Pioneer 334	1, 2, 3, 4, 5, 6, 7, 9, 10, 13, 15, 17, 18, 19, 20, 21, 22
	Pioneer 336	1, 3, 4, 5, 6, 9, 10, 14, 15, 16
	Pioneer 339	3, 4, 6, 9, 10, 14, 15, 16, 17, 18
Delgeene-Reese Farms, Waco, Texas	*Reese Giant Yellow Dent	9, 12
	*Reese Yellow Drouth Resister	9, 12
Goodholm Flour & Feed Co., Stillwater, Okla.	*Reid Yellow Dent	2, 3, 5, 6, 9, 12, 14, 15, 16, 20, 21, 22
Funk Bros. Seed Co., Bloomington, Ill.	*Reid Rellow Dent 176A	1, 2, 3, 4, 7, 9, 12, 13, 20, 21, 22
Shannon Feed Co., Tulsa, Okla.	Shannon 1300	1, 3, 4, 9, 11, 13, 15, 17
	Shannon 15	7, 9, 12, 13
	Shannon White 1600 (wh)	9, 12
Horn Seed Co., Oklahoma City, Okla.	*Squaw Corn	3, 9, 10
Tennessee Experiment Station, Knoxville, Tenn.	Tennessee 10 (wh)	2, 5, 7, 9, 12, 13, 14, 16, 18, 19, 20, 21
	Tennessee 14 (wh)	1, 2, 4, 5, 7, 12, 13, 14, 16, 18, 19, 20, 21
	Tennessee 15 (wh)	2, 5, 7, 9, 12, 13, 14, 16, 18, 19, 20, 21
Texas Experiment Station, College Station, Texas	Texas 7W (wh)	2, 5, 7, 9, 12, 13, 14, 16, 18, 19

Source	Strain	Tables
Robert M. Harper, Martindale, Texas	Texas 8	1, 2, 5, 7, 9, 12, 13, 14, 16, 19, 20, 21
Texas Experiment Station, College Station, Texas	Texas 12	1, 2, 3, 4, 5, 6, 7, 9, 12, 13, 14, 16, 18, 19, 20, 21
J. J. Bryant, Corsicana, Texas	Texas 16	12
Ferris Watson Co., Garland, Texas	Texas 18	2, 5, 7, 9, 12, 13, 14, 16, 19
Ed. F. Mangesdorf, Atchison, Kan.	U. S. 13	} 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 14, 15, 16, 17, [18, 20, 21, 22
Edward J. Funk & Sons, Kentland, Ind.	U. S. 13	
Ferris Hybrids, Princeton, Ill.	U. S. 14	
	U. S. 35	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 14, 15, 16, 18 [20, 21, 22
	U. S. 63	1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 13, 14, 15, 16, 18
Montgomery Ward & Co., Chicago, Ill.	Ward 120A	3, 9, 11
	Ward 125	1, 3, 9, 11
Robert Verkvtz, Watonga, Okla.	*White Corn (Verk- vitz) (wh)	9
Ed. F. Mangelsdorf, Atchison, Kan.	White 133W (wh)	5, 9, 12
Ferguson Seed Farms, Texas	*White Surcropper (wh)	2, 5, 7, 9, 12, 13, 20, 21
Wisconsin Hybrid Corn Co., New Glarus, Wis.	Wisbred D-66	3, 4, 6, 9, 10
	Wisconsin 275	3, 4, 6, 8, 9, 10, 15
	Wisconsin 279	1, 3, 4, 9, 10, 15
	Wisconsin 355	1, 3, 4, 6, 8, 9, 10, 13, 15
	Wisconsin 416	3, 9, 10
	Wisconsin 420	3, 9, 10
	Wisconsin 455	1, 3, 9, 10, 15
	Wisconsin 464	3, 5, 9, 10
	Wisconsin 525	1, 3, 4, 6, 9, 10, 13, 15
	Wisconsin 606	3, 4, 8, 9, 10, 13
Oklahoma Experiment Station, Stillwater, Okla.	*Woods Corn (wh)	1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 20, 21, 22
Ferguson Seed Farms, Howe, Texas	*Yellow Surcropper	2, 3, 5, 7, 9, 12, 13, 14, 16, 20, 21, 22