

By

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SOURCES OF SEED (continued)

Source	Strain	Maturity Group
Oklahoma Experiment Station, Stillwater, Oklahoma	Tennessee 10 (w)	Late
	Texas 8	Late
	Texas 9W (w)	Late
	Texas 11W (w)	Late
	Texas 12	Late
	Texas 18	Late
	Texas 20	Late
	Texas 24	Late
Tomson Hybrid Seed Corn, Topeka, Kansas	Tomson 7	Early
	Tomson 35	Early
	Tomson 44	Medium
United Hybrid Growers Assn., Shenandoah, Iowa	United U-50	Early
	United U-57	Early
	United U-59	Early
	United U-65	Medium
	United U-68	Medium
	United U-72	Late
Oklahoma Experiment Station, Stillwater, Oklahoma	U. S. 13	Early
Montgomery Ward & Co., Chicago, Ill.	Ward 120A	Early
	Ward 125	Medium
	Ward 130	Late
	Ward 135W (w)	Late
Ferris Watson Seed Co., Garland, Texas	Watson 101	Medium
	Watson 206 (w)	Late

PERFORMANCE TESTS OF CORN VARIETIES AND HYBRIDS, 1948

by James S. Brooks, Associate Agronomist; Roy Chessmore, Assistant in Agronomy; and Hartwill Pass, Assistant in Agronomy.*

The 1948 Oklahoma Corn Performance Tests were the most extensive yet conducted by the Experiment Station. The 1948 tests were conducted at 11 locations, five on upland soils and 6 on bottom land. The 147 varieties and hybrids entered in the tests were planted at each of the 11 locations. A total of 6,468 individual plots were harvested and weighed to obtain the yield data reported in this publication.

In order to permit the earliest possible publication, the data reported here include only 1948 testing information. Summaries of the past several years of testing will be published as soon as that information can be compiled. Hybrids which have performed well in preceding tests are listed in Bulletin B-317, and the 1948 results are not expected to make any major changes in this listing. Bulletin B-317 is available from county agents or by writing to the Experiment Station at Stillwater.

1948 Testing Procedure and Conditions

Seasonal Conditions at Test Locations

The 1948 corn planting and early growing season was generally dry. All test locations were planted during the usual planting period. Rainfall was rather well distributed at most locations during the last half of the growing season. The harvesting period was dry and produced almost ideal harvesting conditions. A high wind and rain during early ear development at the Grady County location resulted in severe lodging. Because of the nearly 100% lodging, percent stand and lodging records were not taken at this location.

Plot Location and Arrangement

The 147 entries were divided into three groups. Forty-nine of the earliest maturing hybrids were placed in the "early maturing" group; 49 of the latest maturing varieties were placed in the "late maturing" group; and the remaining 49 were included in the "medium maturing" group. Each maturity group was planted as a unit in each of the four replications at each location. Each maturity group was planted in a 7 x 7 lattice square field design. The plots were one row 20-hills long. They were planted with a modified check row corn planter.

The test locations were chosen to represent soil conditions characteristic of that general area.

Sources of Seed

Two general sources of hybrid seed** entries, each including two classes, were planted in the 1948 tests--

- 11-2-50
- A. Entries supplied by the Oklahoma Agricultural Experiment Station:
 1. Certified seed of hybrids developed by other experiment stations.
 2. New hybrids developed at the Oklahoma Agricultural Experiment Station, not yet in production, and listed as Oklahoma Experimental Hybrids.

* The authors gratefully acknowledge aid in statistical analyses and certain other computations given by the Statistical Laboratory of the Oklahoma A. & M. College Department of Mathematics, which materially expedited the reporting of final results on the 1948 tests.

** The Station does not maintain a supply of seed of these hybrids. However, information concerning sources of this seed will be supplied upon request.

- B. Entries supplied by companies producing or distributing seed:
1. Hybrids now on the market and available to farmers through these companies or their representatives.
 2. Experimental hybrids entered by these companies to test their adaptation to this region and not yet produced in sufficient quantity to be generally available.

Plant Spacing

The test plots were prepared for planting by the cooperating farmer in the same way he prepared his own field for corn, which in all cases was the usual seedbed preparation for corn. The plots were planted in hills 40 inches apart in the row. Row widths varied from 38 to 42 inches at different locations, depending upon that used by the particular cooperator. The number of grains dropped per hill varied with the maturity class at each location and with the fertility of the soil at the different locations.

Yield

Yield is reported as bushels of ear corn per acre. Percent moisture in the grain was determined and yields adjusted to 15.5% moisture. Yields were also adjusted for missing hills. This adjustment tends to compensate for the destruction of any hills during cultivation or from other causes but does not correct for poor or weak germination.

Percent Stand

The percent stand, reported for most locations, is the percent of the grains planted which produced mature plants.

Lodged Plants

Plants were considered lodged if leaning more than 45 degrees from the vertical or if the stalks were broken below the ear.

Signs Used in Tables

- (w) -- White corn.
- (ex) -- An experimental hybrid; not for sale commercially.
- * -- Open-pollinated variety (all others are hybrid strains).

TEST LOCATIONS

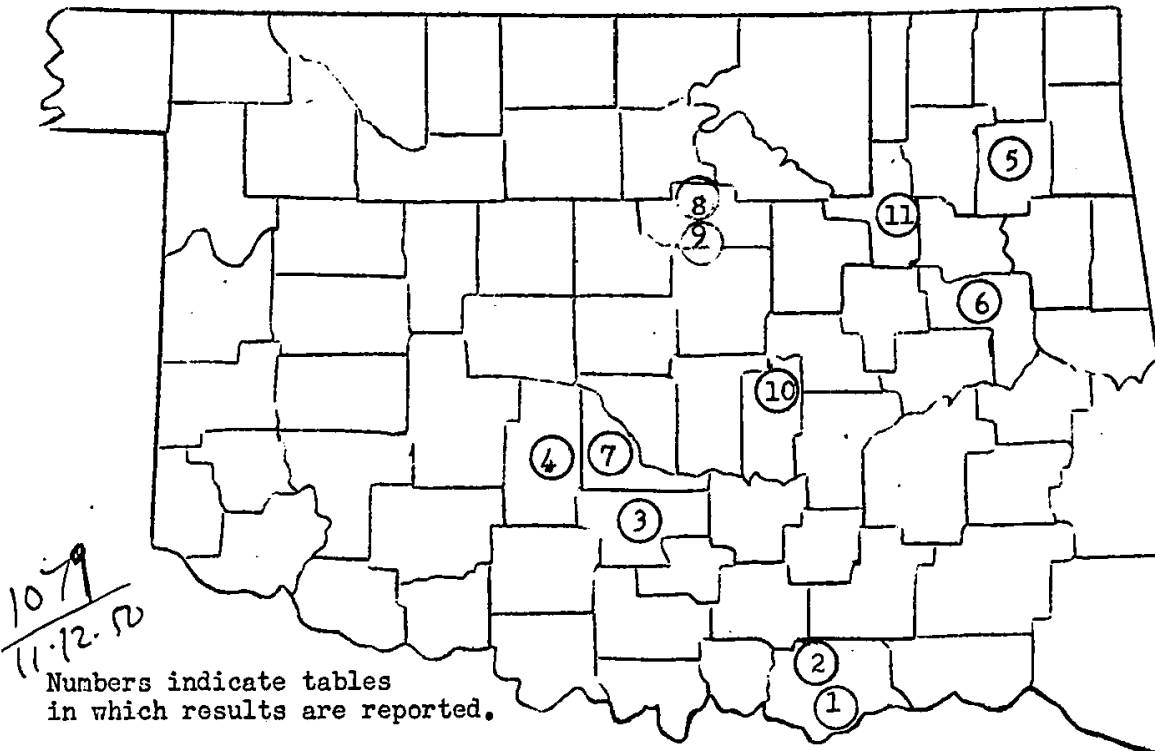


TABLE I.--BRYAN COUNTY (Red River Bottom)
George Lemons Farm; Yuba, 2½ miles south, 1 west
Planted March 31; harvested September 7

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Early Maturity 4 grains planted per hill				
1	Pioneer 300	99.2	94	1
2	Iowalth 29A	97.5	83	1
3	U. S. 13	96.7	88	1
4	DeKalb 816	93.5	90	0
5	Merit 46	93.0	82	0
6	McCurdy 123M	92.5	82	0
7	DeKalb 800A	91.7	85	1
8	Pioneer 334	91.3	86	2
9	Merit 30	91.2	82	1
10	Keystone 38	91.2	77	1
11	Keystone U. S. 13	90.5	87	1
12	Keystone 39	90.2	82	0
13	McCurdy 987M	90.0	92	0
14	Keystone 42	90.0	87	1
15	Merit 48	89.6	72	2
16	Pioneer 336	89.4	85	0
17	Ohio C-38	89.0	83	1
18	United U-57	87.9	83	3
19	Indiana 610B	87.6	75	2
20	Razorback Mo. 8	87.4	87	4
21	Embro 36	87.2	82	1
22	Iowalth 25	87.2	80	1
23	P. A. G. 170	87.1	86	0
24	Merit 32	87.0	63	1
25	DeKalb 817A	86.4	76	2
26	K. F. U. 100	86.3	79	1
27	Funk G-94	85.4	80	2
28	Razorback U. S. 13	85.2	76	1
29	P. A. G. 3250 (ex)	85.0	83	1
30	Brodbeck Imp. 851	84.7	82	1
31	DeKalb 875	84.3	83	0
32	Iowalth 25A	84.3	78	0
33	Pioneer 335	84.1	78	1
34	Tomson 35	84.0	78	0
35	United U-59	83.8	82	1
36	United U-50	81.4	76	0
37	Shannon 1300	81.4	76	4
38	P. A. G. 173	81.2	78	0
39	Missouri 313	80.3	79	2
40	Mangelsdorf U. S. 13	80.2	77	1
41	Tomson 7	79.8	75	1
42	Funk G-99	79.6	68	0
43	Missouri King U. S. 13	79.0	61	1
44	Funk G-53	78.6	72	2
45	Merit U. S. 13	77.6	64	0
46	Embro 95	76.9	73	0
47	Ward 120A	76.5	51	0
48	Missouri King 101	75.1	70	1
49	Pioneer 505W (w)	70.6	53	1
	Average	85.9	78	1

Significant Difference: A difference of less than 11.7 bushels per acre between any two strains should not be considered significant in this test.

TABLE I.--BRYAN COUNTY (Red River Bottom) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Medium Maturity 4 grains planted per hill				
1	Kansas 2234 (w)	99.7	92	0
2	Iowealth TX 1	98.4	88	2
3	Missouri King Mo. 148	98.4	84	2
4	P. A. G. 631 (w)	97.0	85	0
5	Kansas 2275 (w)	96.9	84	2
6	Pioneer 332	96.4	81	2
7	United U-65	93.2	91	1
8	Pioneer 302	93.1	94	1
9	Embro 49	91.8	79	1
10	United U-68	90.3	81	1
11	Indiana 818	90.0	89	3
12	Crost-Rite Mo. 8	89.8	81	3
13	Funk G-82	89.1	84	2
14	Ohio C-12	89.0	80	0
15	Keystone 45	88.7	87	1
16	P. A. G. 3202 (ex)	88.6	79	2
17	Crost-Rite Mo. 148	88.3	78	1
18	Lowe 523	88.1	82	0
19	Keystone 40	87.6	86	1
20	Tomson 44	87.6	84	2
21	Illinois 200	87.6	79	2
22	Kansas 1639	87.3	85	1
23	DeKalb 898	87.0	90	0
24	Mangelsdorf Mo. 148	86.8	84	1
25	Watson 101	86.1	83	2
26	K. F. U. 300	86.1	80	2
27	Merit Mo. 148	85.6	84	1
28	Kansas 1784	85.3	86	0
29	DeKalb 923 (w)	84.8	88	1
30	DeKalb 982 (w)	84.8	78	1
31	Lowe 820	84.5	82	1
32	Embro 155W (w)	84.4	74	0
33	Merit 120	84.3	76	5
34	Funk G-80	83.5	84	1
35	Ward 125	83.2	83	1
36	Funk G-145	82.8	71	3
37	McCurdy 135	81.2	86	1
38	K. F. U. 500	80.3	68	1
39	Funk G-789W (w)	80.0	74	1
40	Funk G-527W (w)	79.6	87	4
41	Funk G-529W (w)	79.1	86	1
42	Oklahoma T46 (ex)	78.5	71	0
43	P. A. G. 617W (w)	78.3	61	1
44	Mangelsdorf Mo. 8	77.2	71	1
45	K. F. U. 400 (w)	76.3	60	1
46	Shannon 1500	75.9	62	2
47	*Kans. Cert. Midland	75.9	79	3
48	Missouri King Mo. 8	74.9	66	2
49	*Midland Yellow Dent	72.8	75	0
	Average	86.1	81	1

Significant Difference: A difference of less than 13.1 bushels per acre between any two strains should not be considered significant in this test.

TABLE I.--BRYAN COUNTY (Red River Bottom) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Late Maturity 3 grains planted per hill				
1	Merit Texas 18	95.0	88	7
2	Texas 18	92.3	84	6
3	Keystone 106W (w)	92.1	89	1
4	Lowe 840	91.6	92	6
5	Keystone 222	90.9	88	4
6	Funk G-711	90.0	91	0
7	K. F. U. 10H	89.1	93	9
8	Texas 11W (w)	88.3	90	3
9	K. F. U. 750	87.4	85	3
10	Texas 8	87.1	87	2
11	Oklahoma T134 (ex)	87.0	88	1
12	Oklahoma T164 (ex)	86.4	93	0
13	DeKalb 1002	85.7	90	2
14	Oklahoma T129 (ex)	85.2	93	1
15	Texas 24	85.1	76	1
16	Texas 12	83.2	86	4
17	McCurdy 1005W (w)	82.4	95	3
18	Tennessee 10 (w)	82.3	88	2
19	DeKalb 1022	82.2	92	0
20	Oklahoma T123 (ex)	82.1	96	0
21	Oklahoma 8817 (ex)	82.0	88	2
22	Oklahoma 8812 (ex)	81.0	90	1
23	United U-72	80.8	92	1
24	Ward 135W (w)	80.2	92	1
25	Oklahoma 8813 (ex)	79.6	89	1
26	Funk G-788W (w)	78.8	92	4
27	DeKalb 1008	78.4	93	2
28	Watson 206 (w)	78.3	87	1
29	Texas 9W (w)	77.3	78	8
30	McCurdy 1000	76.0	89	2
31	Kansas 1583	76.0	88	2
32	Texas 20	75.0	72	11
33	Oklahoma 7803 (ex)	74.9	92	2
34	Oklahoma 8815 (ex)	74.8	80	4
35	Ward 130	72.9	71	1
36	Funk G-716	72.1	87	1
37	Dixie 17 (w)	71.9	88	2
38	Oklahoma 8816 (ex)	71.1	80	1
39	K. F. U. 20H	70.1	62	6
40	Dixie 44	70.0	81	0
41	K. F. U. 800	69.5	86	3
42	Oklahoma 8818 (ex)	66.2	82	0
43	Embro 1001	66.0	63	7
44	Kansas 1585	64.2	78	4
45	*Ferguson Yellow Dent	61.4	85	5
46	Crost-Rite Mo. 5171 (w)	59.8	74	1
47	*Reid Yellow Dent	57.5	67	8
48	Oklahoma 8814 (ex)	49.2	75	3
49	*Oklahoma Silvermine	47.6	78	4
	Average	77.7	85	3

Significant Difference: A difference of less than 10.8 bushels per acre between any two strains should not be considered significant in this test.

TABLE II.—BRYAN COUNTY (Upland)
I. F. Allcorn Farm; Kenefic, 3 miles west
Planted April 1; harvested September 9

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Early Maturity 4 grains planted per hill				
1	K. F. U. 100	47.6	50	3
2	McCurdy 123M	47.0	60	1
3	McCurdy 987M	46.4	61	3
4	Pioneer 300	44.8	60	1
5	Missouri 313	44.6	59	4
6	DeKalb 800A	44.4	57	2
7	Brodbeck Imp. 851	43.8	57	5
8	U. S. 13	42.7	58	4
9	Iowealth 25A	41.9	60	3
10	Mangelsdorf U. S. 13	41.7	57	3
11	Iowealth 29A	41.6	60	1
12	Pioneer 335	41.5	56	1
13	Iowealth 25	41.5	45	4
14	United U-57	41.4	53	3
15	Keystone U. S. 13	41.2	49	2
16	DeKalb 816	41.1	62	3
17	Merit 32	40.5	45	6
18	Merit 30	39.7	45	5
19	DeKalb 875	39.6	44	6
20	Merit 48	39.5	50	1
21	Ohio C-38	39.4	60	6
22	Merit 46	39.3	58	3
23	Razorback U. S. 13	39.3	56	7
24	Indiana 610B	39.0	46	0
25	United U-59	38.8	50	3
26	DeKalb 817A	38.7	56	5
27	Funk G-53	38.6	59	3
28	Razorback Mo. 8	38.6	54	4
29	P. A. G. 3250 (ex)	38.5	57	2
30	Embros 36	38.0	53	2
31	United U-50	38.0	50	5
32	Missouri King 101	37.6	39	2
33	Keystone 38	37.6	41	4
34	Pioneer 336	37.6	42	5
35	Merit U. S. 13	37.6	46	8
36	Funk G-94	37.5	50	4
37	Funk G-99	36.7	47	2
38	Keystone 42	36.7	44	2
39	Shannon 1300	36.2	58	4
40	Missouri King U. S. 13	36.2	52	6
41	Tomson 35	36.0	50	2
42	Pioneer 334	36.0	47	3
43	Tomson 7	35.8	57	1
44	Keystone 39	35.5	45	1
45	Ward 120A	35.4	32	0
46	P. A. G. 170	35.4	51	1
47	P. A. G. 173	33.8	50	2
48	Pioneer 505W (w)	33.6	46	1
49	Embros 95	31.7	56	1
	Average	39.3	52	3

Significant Difference: A difference of less than 6.9 bushels per acre between any two strains should not be considered significant in this test.

TABLE II.--BRYAN COUNTY (Upland) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Medium Maturity 3 grains planted per hill				
1	Ohio C-12	52.5	59	6
2	Pioneer 302	52.2	61	3
3	Kansas 2234 (w)	50.8	70	3
4	P. A. G. 631 (w)	50.2	57	4
5	Kansas 2275 (w)	49.3	65	4
6	Embro 49	46.6	54	1
7	Crost-Rite Mo. 148	46.3	57	4
8	Mangelsdorf Mo. 8	46.2	59	2
9	Funk G-82	46.0	49	3
10	Lowe 523	46.0	60	4
11	K. F. U. 400 (w)	45.4	43	2
12	K. F. U. 300	44.7	69	2
13	Missouri King Mo. 148	44.1	67	1
14	P. A. G. 3202 (ex)	43.3	57	4
15	Iowearth TX 1	43.0	55	4
16	Embro 155W (w)	42.9	45	5
17	McCurdy 135	42.9	53	8
18	Keystone 40	42.6	55	3
19	United U-68	42.1	55	2
20	K. F. U. 500	41.9	53	3
21	Illinois 200	41.9	45	4
22	Kansas 1639	41.8	50	2
23	Keystone 45	41.6	51	2
24	Merit Mo. 148	41.6	57	3
25	Funk G-145	41.4	41	2
26	United U-65	41.1	55	6
27	DeKalb 898	40.9	60	1
28	DeKalb 923 (w)	40.8	58	2
29	Shannon 1500	40.8	53	6
30	Oklahoma T46 (ex)	40.8	41	6
31	Indiana 818	40.4	58	2
32	Funk G-80	40.0	50	3
33	Tomson 44	39.7	36	2
34	*Kans. Cert. Midland	39.1	51	2
35	P. A. G. 617W (w)	39.1	40	2
36	Lowe 820	38.9	62	2
37	Pioneer 332	38.9	65	5
38	Crost-Rite Mo. 8	38.9	51	5
39	Funk G-527W (w)	38.6	46	3
40	Ward 125	38.1	46	3
41	Funk G-789W (w)	37.9	59	7
42	DeKalb 982 (w)	37.7	60	8
43	Kansas 1784	37.4	58	0
44	Mangelsdorf Mo. 8	37.3	36	6
45	Merit 120	36.6	35	0
46	Watson 101	35.4	50	8
47	Missouri King Mo. 8	34.4	50	3
48	Funk G-529W (w)	33.3	48	4
49	*Midland Yellow Dent	30.0	41	5
	Average	41.7	53	3

Significant Difference: A difference of less than 9.8 bushels per acre between any two strains should not be considered significant in this test.

TABLE II.--BRYAN COUNTY (Upland) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Late Maturity 3 grains planted per hill				
1	Merit Texas 18	59.4	68	12
2	Funk G-711	57.0	52	7
3	Texas 11W (w)	55.8	56	4
4	DeKalb 1022	55.8	66	7
5	Crost-Rite Mo. 5171 (w)	55.4	62	5
6	McCurdy 1005W (w)	54.8	65	9
7	Dixie 17 (w)	54.3	61	5
8	Texas 18	54.0	58	10
9	Lowe 840	53.2	62	9
10	Keystone 222	53.0	42	3
11	DeKalb 1002	52.8	56	4
12	Ward 135W (w)	52.2	54	10
13	Texas 12	51.4	55	2
14	Texas 24	51.2	45	3
15	Watson 206 (w)	50.0	62	5
16	Oklahoma T123 (ex)	49.6	48	6
17	Funk G-788W (w)	49.4	63	8
18	K. F. U. 20H	49.3	42	4
19	Oklahoma T129 (ex)	49.1	51	7
20	Funk G-716	48.8	66	4
21	Tennessee 10 (w)	48.0	61	8
22	Texas 8	47.4	60	8
23	K. F. U. 750	46.8	49	7
24	K. F. U. 10H	46.8	51	10
25	Ward 130	46.7	55	6
26	DeKalb 1008	46.6	65	2
27	Texas 9W (w)	46.5	51	5
28	Oklahoma T164 (ex)	45.5	64	1
29	McCurdy 1000	45.0	53	3
30	Oklahoma 8817 (ex)	44.7	51	5
31	United U-72	44.7	48	6
32	Keystone 106W (w)	44.6	54	4
33	Kansas 1583	42.8	72	8
34	Oklahoma 8812 (ex)	42.6	46	4
35	Oklahoma T134 (ex)	42.2	41	9
36	Texas 20	40.7	49	9
37	Embryo 1001	40.6	44	2
38	K. F. U. 800	40.5	61	5
39	Oklahoma 7803 (ex)	40.4	59	2
40	*Reid Yellow Dent	37.8	55	9
41	Oklahoma 8813 (ex)	37.7	45	1
42	Dixie 44	37.7	58	2
43	Oklahoma 8816 (ex)	36.3	49	6
44	Kansas 1585	36.2	45	2
45	Oklahoma 8815 (ex)	34.2	27	3
46	*Ferguson Yellow Dent	33.3	34	3
47	Oklahoma 8818 (ex)	30.9	35	7
48	*Oklahoma Silvermine (w)	30.4	41	6
49	Oklahoma 8814 (ex)	26.6	29	5
	Average	45.7	53	6

Significant Difference: A difference of less than 9.3 bushels per acre between any two strains should not be considered significant in this test.

TABLE III.--GARVIN COUNTY (Bottom land)
D. J. Butler Farm; Pauls Valley, 1 mile west
Planted March 26; harvested September 14

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Early Maturity 4 grains planted per hill				
1	Merit 32	110.7	87	4
2	DeKalb 875	105.9	73	3
3	Keystone 42	105.7	83	5
4	U. S. 13	105.5	81	2
5	Razorback Mo. 8	105.0	93	6
6	DeKalb 800A	104.7	82	1
7	McCurdy 987M	101.9	78	3
8	Iowealth 25A	101.8	80	2
9	Pioneer 300	101.8	81	3
10	DeKalb 817A	100.5	79	3
11	Pioneer 336	99.3	85	3
12	Merit 30	99.1	87	2
13	Tomson 35	99.1	74	3
14	Ohio C-38	99.0	93	2
15	Missouri 313	97.9	67	4
16	Iowealth 29A	97.8	75	2
17	Brodbeck Imp. 851	97.5	74	4
18	United U-50	96.5	85	0
19	Funk G-94	96.4	78	4
20	Indiana 610B	95.5	70	6
21	Merit 46	95.4	80	1
22	United U-57	94.8	82	0
23	McCurdy 123M	94.4	76	3
24	Embro 36	94.2	72	3
25	Pioneer 334	93.8	78	2
26	Pioneer 335	92.9	66	2
27	Mangelsdorf U. S. 13	92.6	70	4
28	Iowealth 25	92.3	77	2
29	P. A. G. 3250 (ex)	92.1	81	2
30	DeKalb 816	91.6	83	4
31	United U-59	91.1	58	1
32	Missouri King U. S. 13	89.0	71	3
33	Keystone 38	88.4	59	3
34	P. A. G. 173	88.0	82	4
35	Merit 48	87.4	70	6
36	Missouri King 101	86.7	53	3
37	P. A. G. 170	86.4	71	2
38	K. F. U. 100	86.2	70	1
39	Shannon 1300	86.0	73	4
40	Keystone 39	85.8	63	6
41	Merit U. S. 13	85.0	58	3
42	Keystone U. S. 13	84.3	66	5
43	Funk G-99	84.0	58	6
44	Razorback U. S. 13	83.0	69	5
45	Funk G-53	79.3	55	4
46	Pioneer 505W (w)	78.4	46	1
47	Ward 120A	74.5	52	3
48	Tomson 7	74.0	59	1
49	Embro 95	72.6	65	3
	Average	92.8	73	3

Significant Difference: A difference of less than 11.6 bushels per acre between any two strains should not be considered significant in this test.

TABLE III.—GARVIN COUNTY (Bottom land) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Medium Maturity 4 grains planted per hill				
1	Funk G-82	114.2	92	16
2	United U-65	110.9	88	8
3	P. A. G. 631 (w)	110.3	73	6
4	Pioneer 302	110.1	89	5
5	McCurdy 135	108.8	86	11
6	Mangelsdorf Mo. 148	107.7	84	2
7	Watson 101	107.6	84	17
8	Pioneer 332	106.3	89	3
9	Kansas 2234 (w)	106.3	87	8
10	Kansas 1639	106.2	79	3
11	Keystone 45	105.7	78	5
12	Crost-Rite Mo. 8	105.7	77	8
13	Kansas 2275 (w)	105.5	81	5
14	Crost-Rite Mo. 148	105.5	87	11
15	Missouri King Mo. 148	104.7	77	2
16	DeKalb 982 (w)	102.8	78	3
17	Funk G-145	101.5	51	4
18	DeKalb 923 (w)	101.3	75	4
19	DeKalb 898	100.7	79	2
20	Funk G-527W (w)	100.6	75	10
21	Embro 49	100.3	81	5
22	United U-68	100.0	78	8
23	Iowealth TX 1	99.0	78	7
24	Kansas 1784	98.9	82	4
25	Merit Mo. 148	98.5	77	3
26	Funk G-80	98.3	78	3
27	Funk G-789W (w)	97.7	72	10
28	Embro 155W (w)	97.6	73	4
29	Lowe 523	96.8	85	2
30	Illinois 200	94.1	77	5
31	K. F. U. 300	93.5	84	2
32	P. A. G. 617W (w)	93.4	64	2
33	Funk G-529W (w)	92.0	71	9
34	P. A. G. 3202 (ex)	91.9	62	5
35	Keystone 40	91.7	87	5
36	K. F. U. 400 (w)	90.7	68	8
37	Mangelsdorf Mo. 8	89.8	71	8
38	Merit 120	89.6	70	4
39	Indiana 818	89.2	77	2
40	K. F. U. 500	88.0	66	4
41	Oklahoma T46 (ex)	87.4	70	3
42	Tomson 44	86.5	78	5
43	Lowe 820	86.0	86	8
44	*Kans. Cert. Midland	83.2	73	24
45	Ohio C-12	80.7	68	2
46	*Midland Yellow Dent	79.5	72	15
47	Shannon 1500	78.9	67	5
48	Missouri King Mo. 8	78.5	71	12
49	Ward 125	78.4	64	3
	Average	97.0	77	6

Significant Difference: A difference of less than 11.9 bushels per acre between any two strains should not be considered significant in this test.

TABLE III.—GARVIN COUNTY (Bottom land) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Late Maturity 3 grains planted per hill				
1	Lowe 840	109.8	91	13
2	Oklahoma T129 (ex)	109.6	96	11
3	McCurdy 1005W (w)	108.3	97	12
4	Oklahoma T123 (ex)	107.1	98	8
5	K. F. U. 10H	106.6	84	18
6	DeKalb 1022	105.9	88	11
7	DeKalb 1008	105.4	97	13
8	Texas 12	104.9	80	16
9	Funk G-711	104.8	91	15
10	Watson 206 (w)	104.5	93	2
11	Oklahoma 8816 (ex)	104.4	93	28
12	Texas 24	103.0	72	27
13	Oklahoma 8817 (ex)	102.9	96	17
14	Oklahoma 8813 (ex)	102.4	95	15
15	Dixie 17 (w)	102.3	93	19
16	Tennessee 10 (w)	99.7	91	13
17	Texas 11W (w)	99.5	95	13
18	K. F. U. 750	99.5	83	19
19	McCurdy 1000	99.3	93	20
20	Texas 8	98.1	89	7
21	Merit Texas 18	97.2	83	34
22	DeKalb 1002	95.5	84	9
23	United U-72	94.7	86	4
24	Keystone 106W (w)	94.5	88	9
25	K. F. U. 800	94.5	96	21
26	Oklahoma T134 (ex)	93.3	91	7
27	Funk G-788W (w)	91.6	83	20
28	Texas 18	91.6	76	26
29	Funk G-716	90.2	98	19
30	Oklahoma T164 (ex)	89.8	84	6
31	Oklahoma 8818 (ex)	89.5	100	18
32	Oklahoma 7803 (ex)	89.1	91	7
33	Keystone 222	89.1	84	10
34	Kansas 1583	88.9	88	10
35	Texas 9W (w)	85.9	88	10
36	Ward 135W (w)	84.7	74	26
37	Oklahoma 8816 (ex)	84.6	86	10
38	Oklahoma 8815 (ex)	83.8	90	9
39	Crost-Rite Mo. 5171 (w)	83.1	76	4
40	Ward 130	81.9	75	9
41	Dixie 44	81.0	94	10
42	Texas 20	80.7	68	26
43	Kansas 1585	78.8	93	15
44	K. F. U. 20H	78.8	50	24
45	Embros 1001	72.7	64	4
46	Oklahoma 8814 (ex)	72.1	89	6
47	*Reid Yellow Dent	68.5	74	36
48	*Ferguson Yellow Dent	68.3	72	18
49	*Oklahoma Silvermine (w)	65.6	90	22
	Average	92.6	86	15

Significant Difference: A difference of less than 12.3 bushels per acre between any two strains should not be considered significant in this test.

TABLE IV.--GRADY COUNTY (Bottom land)
 Oklahoma Cotton Research Station; Chickasha, 1 mile east
 Planted April 14; harvested October 6

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Early Maturity 4 grains planted per hill				
1	DeKalb 800A	76.6		
2	K. F. U. 100	74.9		
3	Merit 32	73.8		
4	U. S. 13	72.8		
5	Iowalth 29A	71.8		
6	Tomson 35	71.3		
7	McCurdy 123M	71.2		
8	Pioneer 300	70.8		
9	Missouri 313	70.0		
10	Funk G-94	69.8		
11	P. A. G. 173	69.3		
12	Pioneer 336	69.1		
13	DeKalb 817A	67.4		
14	Keystone 42	67.0		
15	Mangelsdorf U. S. 13	66.3		
16	McCurdy 987M	65.9		
17	Brodbeck Imp. 851	65.8		
18	Embro 36	63.5		
19	United U-50	62.7		
20	DeKalb 875	62.6		
21	Razorback U. S. 13	61.7		
22	Merit 30	61.5		
23	Pioneer 335	61.3		
24	United U-57	60.9		
25	Merit 46	60.4		
26	P. A. G. 170	60.1		
27	Funk G-99	59.5		
28	DeKalb 816	59.3		
29	Ohio C-38	59.3		
30	Iowalth 25A	58.4		
31	Keystone U. S. 13	57.9		
32	Iowalth 25	57.9		
33	Merit U. S. 13	57.9		
34	Indiana 610B	56.7		
35	Keystone 38	56.5		
36	Pioneer 334	56.1		
37	Tomson 7	54.7		
38	Missouri King 101	54.5		
39	Missouri King U. S. 13	54.4		
40	Funk G-53	54.0		
41	P. A. G. 3250 (ex)	53.5		
42	Keystone 39	53.1		
43	Embro 95	52.6		
44	United U-59	51.2		
45	Merit 48	50.4		
46	Pioneer 505W (w)	49.5		
47	Razorback Mo. 8	47.0		
48	Shannon 1300	45.9		
49	Ward 120A	45.7		
	Average	61.1		

Significant Difference: A difference of less than 12.6 bushels per acre between any two strains should not be considered significant in this test.

TABLE IV.--GRADY COUNTY (Bottom land) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Medium Maturity 3 grains planted per hill				
1	Indiana 818	71.0		
2	Kansas 2234 (w)	70.8		
3	Pioneer 302	69.5		
4	Mangelsdorf Mo. 148	68.5		
5	Kansas 2275 (w)	67.8		
6	Missouri King Mo. 148	66.7		
7	United U-65	64.6		
8	United U-68	64.4		
9	Tomson 44	64.2		
10	Kansas 1784	63.5		
11	Crost-Rite Mo. 148	63.3		
12	Illinois 200	63.1		
13	Keystone 45	62.3		
14	Funk G-145	60.8		
15	Funk G-82	60.7		
16	DeKalb 898	60.5		
17	Embros 49	60.0		
18	Lowe 523	59.9		
19	P. A. G. 3202 (ex)	59.7		
20	DeKalb 923 (w)	59.1		
21	Funk G-529W (w)	59.1		
22	Kansas 1639	57.9		
23	Keystone 40	57.5		
24	K. F. U. 300	57.4		
25	Merit Mo. 148	56.6		
26	Funk G-527W (w)	56.4		
27	K. F. U. 500	56.4		
28	DeKalb 982 (w)	56.2		
29	Lowe 820	56.2		
30	Funk G-80	56.1		
31	McCurdy 135	55.9		
32	Crost-Rite Mo. 8	55.8		
33	Embros 155W (w)	55.6		
34	Iowealth TX 1	54.9		
35	Watson 101	54.6		
36	P. A. G. 631 (w)	54.4		
37	Merit 120	53.1		
38	Oklahoma T46 (ex)	51.9		
39	Pioneer 332	51.9		
40	P. A. G. 617W (w)	51.0		
41	Funk G-789W (w)	50.3		
42	Ohio C-12	49.4		
43	Missouri King Mo. 8	48.1		
44	Ward 125	46.7		
45	K. F. U. 400 (w)	46.5		
46	Shannon 1500	43.5		
47	*Kans. Cert. Midland	42.9		
48	*Midland Yellow Dent	40.7		
49	Mangelsdorf Mo. 8	39.2		
	Average	57.1		

Significant Difference: A difference of less than 12.7 bushels per acre between any two strains should not be considered significant in this test.

TABLE IV.--GRADY COUNTY (Bottom land) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Late Maturity 3 grains planted per hill				
1	Ward 135W (w)	67.5		
2	Funk G-711	67.3		
3	Dixie 17 (w)	66.3		
4	Texas 11W (w)	65.8		
5	K. F. U. 800	64.9		
6	Keystone 222	64.6		
7	DeKalb 1008	64.0		
8	Oklahoma T164 (ex)	63.9		
9	Texas 18	63.9		
10	Texas 12	62.8		
11	McCurdy 1005W (w)	61.6		
12	Keystone 106W (w)	61.2		
13	Funk G-788W (w)	61.1		
14	Funk G-716	60.3		
15	Tennessee 10 (w)	60.2		
16	Kansas 1583	59.4		
17	Merit Texas 18	59.3		
18	Oklahoma 7803 (ex)	59.3		
19	Texas 20	59.1		
20	Watson 206 (w)	58.2		
21	Crost-Rite Mo. 5171 (w)	58.1		
22	Texas 24	58.1		
23	K. F. U. 10H	57.8		
24	Oklahoma 8818 (ex)	57.6		
25	Lowe 840	57.3		
26	Texas 8	57.2		
27	Oklahoma 8817 (ex)	57.1		
28	DeKalb 1002	56.6		
29	Oklahoma 8812 (ex)	56.4		
30	K. F. U. 750	56.2		
31	United U-72	56.2		
32	Kansas 1585	55.9		
33	DeKalb 1022	53.6		
34	K. F. U. 20H	53.3		
35	Oklahoma T123 (ex)	52.9		
36	Texas 9W (w)	52.9		
37	McCurdy 1000	51.8		
38	Ward 130	51.3		
39	Oklahoma 8816 (ex)	51.2		
40	Oklahoma T134 (ex)	50.3		
41	Oklahoma 8813 (ex)	49.9		
42	Dixie 44	48.2		
43	Oklahoma T129 (ex)	47.5		
44	Embro 1001	47.1		
45	Oklahoma 8815 (ex)	46.7		
46	Oklahoma 8814 (ex)	42.1		
47	*Roid Yellow Dent	39.7		
48	*Oklahoma Silvermine (w)	38.7		
49	*Ferguson Yellow Dent	28.6		
	Average	55.9		

Significant Difference: A difference of less than 11.2 bushels per acre between any two strains should not be considered significant in this test.

TABLE V.--MAYES COUNTY (Upland)
 Lloyd Coblentz Farm; Pryor, 8 miles east, 4 north
 Planted April 8; harvested September 28

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Early Maturity 3 grains planted per hill				
1	Iowealth 29A	33.4	40	25
2	Pioneer 335	32.7	52	19
3	McCurdy 987M	32.4	36	15
4	Brodbeck Imp. 851	32.3	30	19
5	Mangelsdorf U. S. 13	32.1	35	17
6	U. S. 13	31.2	45	36
7	United U-57	30.7	44	43
8	Pioneer 300	30.6	53	39
9	DeKalb 816	30.4	47	28
10	Embro 95	29.8	41	26
11	United U-50	29.6	46	36
12	Merit 32	29.5	42	18
13	DeKalb 800A	28.7	47	39
14	Keystone 38	28.4	29	23
15	Tomson 7	27.8	43	42
16	McCurdy 123M	27.6	44	38
17	Razorback Mo. 8	27.5	35	42
18	Merit 30	27.3	45	23
19	P. A. G. 3250 (ex)	27.3	45	46
20	United U-59	27.2	36	20
21	DeKalb 875	26.6	34	23
22	Tomson 35	26.1	35	18
23	Ohio G-38	26.1	45	30
24	Merit 46	25.9	35	25
25	Funk G-99	25.4	29	24
26	DeKalb 817A	25.2	36	42
27	Razorback U. S. 13	25.1	42	33
28	Shannon 1300	25.0	29	33
29	Embro 36	24.8	32	39
30	Keystone 39	24.7	31	19
31	Iowealth 25	24.7	31	46
32	Indiana 610B	24.5	39	22
33	P. A. G. 170	24.2	39	16
34	Pioneer 336	24.0	44	54
35	Missouri 313	23.6	33	42
36	Keystone 42	23.5	35	49
37	Iowealth 25A	23.2	22	17
38	Merit 48	23.0	12	14
39	P. A. G. 173	22.6	28	37
40	K. F. U. 100	22.3	30	31
41	Funk G-94	22.2	30	42
42	Keystone U. S. 13	21.7	28	40
43	Funk G-53	21.5	23	16
44	Missouri King 101	20.0	19	24
45	Pioneer 334	18.9	42	61
46	Ward 120A	18.4	11	50
47	Pioneer 505W (w)	17.9	10	56
48	Missouri King U. S. 13	15.0	14	32
49	Merit U. S. 13	14.1	8	20
	Average	25.7	34	32

Significant Difference: A difference of less than 6.9 bushels per acre between any two strains should not be considered significant in this test.

TABLE V.--MAYES COUNTY (Upland) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Medium Maturity 3 grains planted per hill				
1	McCurdy 135	45.6	47	31
2	Pioneer 302	44.0	60	27
3	Watson 101	43.7	61	32
4	Kansas 2234 (w)	42.4	64	14
5	Funk G-82	41.7	45	30
6	Kansas 2275 (w)	40.8	51	38
7	*Kans. Cert. Midland	40.5	50	35
8	Oklahoma T46 (ex)	39.7	53	20
9	United U-65	39.0	61	27
10	Funk G-145	38.7	44	32
11	*Midland Yellow Dent	38.0	40	31
12	K. F. U. 400 (w)	37.7	38	32
13	Iowealth TX 1	37.1	35	44
14	Keystone 45	36.6	48	10
15	United U-68	35.3	40	20
16	Funk G-529W (w)	35.2	36	35
17	Missouri King Mo. 148	34.3	48	23
18	DeKalb 923 (w)	33.8	38	25
19	Crost-Rite Mo. 148	33.1	43	38
20	Embro 49	32.6	38	34
21	Indiana 818	32.5	44	33
22	Funk G-789W (w)	32.5	33	41
23	Embro 155W (w)	32.4	42	28
24	Kansas 1784	32.0	40	33
25	P. A. G. 631 (w)	30.3	45	42
26	DeKalb 898	30.3	29	56
27	Crost-Rite Mo. 8	30.2	35	40
28	Kansas 1639	29.2	47	20
29	Lowe 523	29.0	39	27
30	Mangelsdorf Mo. 148	28.3	42	24
31	Funk G-80	28.1	35	29
32	Pioneer 332	27.6	44	40
33	Funk G-527W (w)	27.2	28	30
34	Merit Mo. 148	26.6	33	22
35	Illinois 200	26.4	25	33
36	Keystone 40	25.4	38	22
37	Mangelsdorf Mo. 8	25.1	23	35
38	P. A. G. 3202 (ex)	25.0	22	23
39	K. F. U. 300	25.0	38	43
40	Ward 125	24.3	20	17
41	DeKalb 982 (w)	22.7	30	38
42	Missouri King Mo. 8	22.7	18	48
43	Lowe 820	22.2	28	22
44	Merit 120	21.2	22	35
45	Tomson 44	21.1	32	39
46	K. F. U. 500	20.6	21	34
47	Ohio C-12	18.0	19	38
48	P. A. G. 617W (w)	16.9	21	36
49	Shannon 1500	16.0	15	43
	Average	31.0	38	32

Significant Difference: A difference of less than 8.6 bushels per acre between any two strains should not be considered significant in this test.

TABLE V.--MAYES COUNTY (Upland) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Late Maturity 2 grains planted per hill				
1	Oklahoma T164 (ex)	45.7	63	15
2	Oklahoma T129 (ex)	40.4	61	17
3	Lowe 840	38.7	64	34
4	Oklahoma 8817 (ex)	37.6	60	21
5	Texas 11W (w)	36.7	59	51
6	Funk G-711	35.8	46	59
7	Oklahoma T123 (ex)	34.9	49	23
8	Funk G-716	34.5	38	24
9	Texas 24	33.7	39	30
10	McCurdy 1000	33.7	53	32
11	Oklahoma 7803 (ex)	32.8	47	19
12	Keystone 222	32.7	53	41
13	Texas 12	32.5	47	47
14	K. F. U. 750	32.2	48	45
15	Oklahoma 8812 (ex)	31.7	43	19
16	Oklahoma 8818 (ex)	31.6	55	11
17	Oklahoma T134 (ex)	31.4	69	40
18	Oklahoma 8813 (ex)	30.5	48	10
19	United U-72	30.3	41	36
20	Oklahoma 8816 (ex)	30.1	43	18
21	Texas 8	30.1	50	47
22	Texas 18	30.1	39	63
23	DeKalb 1022	29.7	33	32
24	McCurdy 1005W (w)	29.5	49	49
25	K. F. U. 20H	29.0	19	48
26	DeKalb 1002	28.9	52	35
27	Tennessee 10 (w)	28.9	46	47
28	K. F. U. 800	28.0	29	24
29	Kansas 1583	27.9	48	20
30	Kansas 1585	27.8	41	10
31	Watson 206 (w)	27.8	41	32
32	Funk G-788W (w)	27.1	44	21
33	Keystone 106W (w)	27.0	61	35
34	*Oklahoma Silvermine	26.9	52	26
35	K. F. U. 10H	26.7	34	44
36	Dixie 17 (w)	25.8	39	53
37	Ward 135W (w)	25.6	36	57
38	Dixie 44	25.5	50	19
39	Ward 130	25.5	39	24
40	Oklahoma 8815 (ex)	25.4	33	22
41	Texas 9W (w)	25.4	29	58
42	Oklahoma 8814 (ex)	25.2	34	15
43	DeKalb 1008	24.3	35	46
44	*Reid Yellow Dent	23.1	33	37
45	Merit Texas 18	21.6	29	67
46	Embros 1001	21.1	17	50
47	Crost-Rite Mo. 5171 (w)	21.0	24	31
48	*Ferguson Yellow Dent	19.8	37	29
49	Texas 20	18.2	6	54
	Average	29.4	49	35

Significant Difference: A difference of less than 8.5 bushels per acre between any two strains should not be considered significant in this test.

TABLE VI.—McCLAIN COUNTY (Upland)
Clifton Brown Farm; Purcell, 5 miles north, 5 west
Planted March 29; harvested September 16

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Early Maturity 3 grains planted per hill				
1	U. S. 13	52.8	93	5
2	DeKalb 817A	52.4	86	9
3	Keystone 42	52.2	92	7
4	Keystone 38	51.5	79	7
5	Iowealth 29A	50.6	86	12
6	Pioneer 336	49.7	93	7
7	Merit 46	49.5	92	5
8	Missouri 313	49.4	90	10
9	Keystone U. S. 13	48.9	85	6
10	Merit 32	48.8	93	6
11	Merit 30	48.5	87	5
12	Iowealth 25	48.5	85	5
13	P. A. G. 3250 (ex)	48.4	93	5
14	Tomson 35	48.4	84	5
15	Ohio C-38	48.1	90	2
16	P. A. G. 170	48.1	87	5
17	Tomson 7	47.8	93	8
18	Missouri King 101	47.7	78	5
19	Pioneer 300	47.5	85	7
20	Razorback U. S. 13	47.2	77	5
21	K. F. U. 100	47.1	77	2
22	Mangelsdorf U. S. 13	47.0	90	5
23	Iowealth 25	46.9	84	5
24	Funk G-53	46.9	77	7
25	Brodbeck Imp. 851	46.5	85	6
26	McCurdy 987M	46.4	88	8
27	Keystone 39	46.2	88	4
28	DeKalb 816	46.0	81	4
29	Merit U. S. 13	45.9	75	4
30	Missouri King U. S. 13	45.9	75	5
31	DeKalb 875	45.7	87	8
32	Funk G-94	45.6	73	6
33	McCurdy 123M	45.5	92	9
34	Merit 48	45.4	71	9
35	Embros 36	45.2	94	5
36	Indiana 610B	44.9	87	9
37	P. A. G. 173	44.5	80	9
38	DeKalb 800A	44.2	80	5
39	United U-57	43.9	84	6
40	Pioneer 334	43.6	91	7
41	United U-59	43.6	82	10
42	Ward 120A	43.5	60	5
43	United U-50	43.4	83	5
44	Funk G-99	43.0	79	2
45	Shannon 1300	42.8	84	5
46	Razorback Mo. 8	41.9	86	14
47	Pioneer 335	41.3	74	6
48	Embros 95	39.9	76	11
49	Pioneer 505W (w)	39.7	64	4
	Average	46.5	84	6

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

TABLE VI.--McCLAIN COUNTY (Upland) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Medium Maturity 3 grains planted per hill				
1	Crost-Rite Mo. 148	58.5	91	11
2	Embro 49	52.4	88	14
3	Kansas 2275 (w)	51.7	93	15
4	Mangelsdorf Mo. 148	51.4	89	8
5	Indiana 818	50.6	93	5
6	Lowe 523	50.0	84	1
7	Merit Mo. 148	49.8	89	5
8	United U-65	49.7	92	8
9	K. F. U. 300	49.7	89	12
10	Kansas 2234 (w)	49.7	85	14
11	Tomson 44	48.8	90	7
12	Missouri King Mo. 148	48.6	88	6
13	Embro 155W (w)	48.2	83	3
14	Illinois 200	48.2	84	11
15	P. A. G. 3202 (ex)	48.2	89	16
16	Pioneer 302	47.4	89	8
17	K. F. U. 500	47.3	82	6
18	United U-68	47.2	78	6
19	Ward 125	46.5	75	6
20	Crost-Rite Mo. 8	46.3	90	12
21	Lowe 820	46.1	91	9
22	Pioneer 332	45.7	95	3
23	Ohio C-12	45.6	73	3
24	P. A. G. 617W (w)	45.3	71	6
25	K. F. U. 400 (w)	44.9	78	10
26	Kansas 1639	44.7	88	8
27	Oklahoma T46 (ex)	44.3	81	4
28	Watson 101	44.1	87	6
29	Kansas 1784	44.0	88	9
30	P. A. G. 631 (w)	43.9	90	14
31	Keystone 40	43.5	88	6
32	McCurdy 135	43.4	92	9
33	Merit 120	43.3	82	10
34	Keystone 45	42.4	87	7
35	Shannon 1500	40.5	70	7
36	Funk G-527W (w)	39.9	81	30
37	Iowealth TX 1	39.8	88	22
38	DeKalb 982 (w)	39.4	83	7
39	Missouri King Mo. 8	39.4	75	19
40	Mangelsdorf Mo. 8	37.6	89	12
41	Funk G-529W (w)	37.2	84	12
42	Funk G-80	36.9	90	13
43	Funk G-789W (w)	36.8	85	15
44	DeKalb 898	35.9	94	9
45	Funk G-145	34.0	80	9
46	Funk G-82	33.2	93	15
47	DeKalb 923 (w)	31.8	91	8
48	*Midland Yellow Dent	29.9	83	17
49	*Kans. Cert. Midland	27.3	90	29
	Average	43.9	86	10

Significant Difference: A difference of less than 6.4 bushels per acre between any two strains should not be considered significant in this test.

TABLE VI.--McCLAIN COUNTY (Upland) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Late Maturity 2 grains planted per hill				
1	Lowe 840	56.3	100	22
2	Dixie 17 (w)	54.8	99	14
3	Texas 24	54.4	79	10
4	Keystone 106W (w)	53.9	99	4
5	Oklahoma T164 (ex)	53.0	92	6
6	Merit Texas 18	53.0	93	19
7	K. F. U. 800	52.8	100	13
8	Ward 135W (w)	52.7	98	18
9	Keystone 222	52.0	96	19
10	Crost-Rite Mo. 5171 (w)	51.8	93	10
11	Oklahoma 8812 (ex)	51.7	97	14
12	Texas 12	51.5	94	20
13	Watson 206 (w)	51.2	97	8
14	Oklahoma T123 (ex)	51.2	96	19
15	Texas 11W (w)	51.1	89	22
16	Ward 130	50.9	86	9
17	McCurdy 1005W (w)	50.9	98	18
18	K. F. U. 750	50.7	86	17
19	Tennessee 10 (w)	50.2	96	17
20	Oklahoma T134 (ex)	50.0	92	18
21	Oklahoma 8813 (ex)	49.9	96	8
22	DeKalb 1002	49.0	89	9
23	DeKalb 1022	48.8	98	8
24	K. F. U. 20H	48.5	76	21
25	Oklahoma 8816 (ex)	48.2	91	20
26	Texas 9W (w)	47.5	98	17
27	Texas 18	47.5	84	18
28	Oklahoma 8815 (ex)	47.4	85	9
29	McCurdy 1000	47.4	98	11
30	Oklahoma 8817 (ex)	46.7	92	11
31	Oklahoma T129 (ex)	46.5	95	17
32	K. F. U. 10H	46.5	97	25
33	DeKalb 1008	45.8	99	19
34	Texas 8	45.5	94	5
35	Oklahoma 7803 (ex)	45.4	89	7
36	Funk G-711	45.0	96	13
37	Funk G-788W (w)	45.0	99	15
38	Funk G-716	45.0	86	15
39	Texas 20	45.0	76	24
40	Dixie 44	44.4	96	8
41	Kansas 1583	44.1	95	11
42	Embro 1001	43.4	81	20
43	Kansas 1585	42.0	99	22
44	United U-72	41.8	97	8
45	Oklahoma 8818 (ex)	37.7	92	13
46	Oklahoma 8814 (ex)	36.9	81	11
47	*Reid Yellow Dent	36.2	84	23
48	*Oklahoma Silvermine (w)	34.0	99	23
49	*Ferguson Yellow Dent	29.8	81	28
	Average	47.9	92	15

Significant Difference: A difference of less than 7.2 bushels per acre between any two strains should not be considered significant in this test.

TABLE VII.—MUSKOGEE COUNTY (Upland)
 Connors State Agricultural College; Warner, $\frac{1}{2}$ mile west
 Planted April 7; harvested September 2

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Early Maturity 3 grains planted per hill				
1	Keystone 42	51.0	71	0
2	Keystone U. S. 13	48.1	47	1
3	Pioneer 300	47.9	70	0
4	McCurdy 987M	46.6	51	1
5	DeKalb 800A	45.5	52	0
6	Iowealth 25A	45.2	53	0
7	Pioneer 336	44.6	65	0
8	DeKalb 817A	44.5	53	0
9	Brodbeck Imp. 851	44.2	62	0
10	DeKalb 875	44.1	58	0
11	Indiana 610B	44.1	58	1
12	Iowealth 29A	44.1	51	1
13	DeKalb 816	43.6	53	0
14	Razorback Mo. 8	43.4	58	2
15	P. A. G. 3250 (ex)	43.2	65	0
16	United U-50	43.0	59	0
17	Merit 46	43.0	49	0
18	Funk G-94	42.9	54	0
19	McCurdy 123M	42.9	51	3
20	P. A. G. 170	42.7	60	0
21	Mangelsdorf U. S. 13	42.6	43	0
22	Embro 36	42.2	59	1
23	Missouri King 101	42.0	37	0
24	U. S. 13	41.9	48	0
25	Tomson 7	41.8	65	1
26	Merit 30	41.5	59	0
27	Missouri 313	40.8	41	2
28	Funk G-99	40.5	54	0
29	United U-57	40.5	52	0
30	Pioneer 334	40.1	67	1
31	United U-59	40.0	45	0
32	Merit 32	39.9	51	0
33	Keystone 38	39.7	41	0
34	Pioneer 335	39.1	65	1
35	Razorback U. S. 13	38.9	53	0
36	Keystone 39	38.4	48	1
37	Tomson 35	38.2	45	1
38	Funk G-53	38.0	40	0
39	Merit 48	38.0	29	1
40	Ward 120A	38.0	12	4
41	Ohio C-38	37.1	46	0
42	Iowealth 25	36.6	47	1
43	P. A. G. 173	35.1	40	0
44	Embro 95	35.0	47	0
45	Pioneer 505W (w)	34.3	18	0
46	K. F. U. 100	33.9	26	0
47	Missouri King U. S. 13	33.8	28	0
48	Shannon 1300	31.4	30	0
49	Merit U. S. 13	31.2	19	0
	Average	40.9	49	1

Significant Difference: A difference of less than 9.0 bushels per acre between any two strains should not be considered significant in this test.

TABLE VII.--MUSKOGEE COUNTY (Upland) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Medium Maturity 2 grains planted per hill				
1	Watson 101	50.7	59	0
2	Funk G-82	50.6	73	0
3	P. A. G. 3202 (ex)	50.2	35	2
4	Pioneer 302	50.1	84	0
5	Kansas 2234 (w)	49.4	86	0
6	P. A. G. 631 (w)	49.1	56	2
7	Kansas 2275 (w)	47.7	66	1
8	McCurdy 135	47.6	66	1
9	Funk G-80	46.1	56	0
10	*Kans. Cert. Midland	45.3	73	1
11	Embro 155W (w)	45.2	61	0
12	Mangelsdorf Mo. 148	44.3	68	0
13	Missouri King Mo. 148	44.2	61	0
14	K. F. U. 400 (w)	43.9	44	0
15	United U-65	43.6	83	2
16	United U-68	42.5	54	1
17	Funk G-789W (w)	42.3	36	2
18	Oklahoma T46 (ex)	42.2	78	0
19	Kansas 1639	42.2	74	0
20	DeKalb 923 (w)	41.9	63	0
21	Keystone 45	41.8	60	0
22	Tomson 44	41.6	48	1
23	Funk G-145	41.5	53	1
24	DeKalb 982 (w)	41.2	53	2
25	Crost-Rite Mo. 148	40.8	66	1
26	K. F. U. 300	40.5	73	0
27	Indiana 818	40.3	71	0
28	Lowe 523	40.1	65	0
29	Funk G-529W (w)	40.0	48	0
30	Crost-Rite Mo. 8	39.8	55	0
31	Iowealth TX 1	39.6	58	1
32	Kansas 1784	39.3	56	0
33	Keystone 40	39.0	45	0
34	Pioneer 332	38.7	63	0
35	Embro 49	38.5	42	0
36	DeKalb 898	38.4	52	0
37	P. A. G. 617W (w)	38.4	28	0
38	Funk G-527W (w)	38.1	47	0
39	Ward 125	37.1	29	0
40	Lowe 820	36.8	44	0
41	Merit 120	36.3	48	0
42	Merit Mo. 148	35.9	62	4
43	Illinois 200	35.5	38	0
44	Ohio C-12	35.4	38	0
45	*Midland Yellow Dent	34.9	52	1
46	Mangelsdorf Mo. 8	31.1	33	0
47	K. F. U. 500	31.1	38	0
48	Missouri King Mo. 8	31.0	29	0
49	Shannon 1500	29.4	25	0
	Average	41.0	55	1

Significant Difference: A difference of less than 10.0 bushels per acre between any two strains should not be considered significant in this test.

TABLE VII.--MUSKOGEE COUNTY (Upland) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Late Maturity 2 grains planted per hill				
1	Oklahoma T129 (ex)	54.8	74	3
2	Texas 11W (w)	54.5	67	2
3	Texas 24	51.5	58	0
4	McCurdy 1005W (w)	50.8	74	0
5	Oklahoma T123 (ex)	50.6	72	1
6	Watson 206 (w)	50.2	69	2
7	Tennessee 10 (w)	50.0	71	2
8	Texas 12	47.7	44	2
9	Oklahoma 8818 (ex)	47.4	71	0
10	Lowe 840	46.6	60	1
11	Texas 18	46.3	41	10
12	Funk G-711	46.0	58	3
13	K. F. U. 800	45.7	54	0
14	K. F. U. 10H	45.5	69	4
15	Dixie 17 (w)	45.5	63	5
16	Oklahoma T134 (ex)	45.4	56	3
17	Merit Texas 18	45.4	30	3
18	Texas 8	45.1	54	0
19	Oklahoma 7803 (ex)	44.2	63	0
20	Oklahoma T164 (ex)	44.0	60	0
21	Keystone 222	43.7	57	0
22	McCurdy 1000	43.5	60	2
23	Dixie 44	43.3	71	3
24	Oklahoma 8812 (ex)	43.0	60	0
25	Ward 130	42.2	53	1
26	Oklahoma 8814 (ex)	42.0	61	0
27	Oklahoma 8817 (ex)	41.8	56	0
28	K. F. U. 750	41.6	67	3
29	Keystone 106W (w)	41.5	58	1
30	DeKalb 1002	41.4	66	1
31	Funk G-716	41.4	47	3
32	Oklahoma 8813 (ex)	40.9	63	0
33	United U-72	40.7	71	2
34	Oklahoma 8816 (ex)	40.5	64	0
35	DeKalb 1022	39.8	55	0
36	Texas 9W (w)	39.7	42	8
37	DeKalb 1008	39.3	64	1
38	Kansas 1585	39.3	44	1
39	Oklahoma 8815 (ex)	39.2	50	1
40	Kansas 1583	38.2	59	0
41	Ward 135W (w)	37.9	38	2
42	*Reid Yellow Dent	37.8	55	2
43	Embro 1001	36.8	16	0
44	K. F. U. 20H	35.5	14	0
45	Texas 20	35.5	11	17
46	*Oklahoma Silvermine (w)	35.1	71	3
47	Funk G-788W (w)	34.4	64	9
48	Crost-Rite Mo. 5171 (w)	33.5	34	0
49	*Ferguson Yellow Dent	33.2	29	8
	Average	42.8	55	2

Significant Difference: A difference of less than 8.7 bushels per acre between any two strains should not be considered significant in this test.

TABLE VIII.—PAYNE COUNTY (Bottom Land)
 Harley Thomas Farm; Stillwater, 2 miles east
 Planted April 16; harvested October 22

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Early Maturity				
4 grains planted per hill and thinned to three plants				
1	U. S. 13	77.6	93	21
2	DeKalb 817A	77.4	88	20
3	Keystone 42	75.2	95	6
4	Merit 32	75.2	92	13
5	Iowealth 25A	74.8	94	3
6	McCurdy 123M	74.1	96	6
7	Funk G-94	74.0	90	9
8	Pioneer 336	73.7	95	14
9	Razorback U. S. 13	73.3	84	7
10	Keystone 38	73.0	98	11
11	McCurdy 987M	72.8	74	35
12	Pioneer 505W (w)	71.8	80	35
13	Keystone U. S. 13	70.6	88	10
14	DeKalb 875	70.4	89	24
15	Indiana 610B	70.4	86	27
16	K. F. U. 100	70.2	90	17
17	Tomson 35	69.6	94	20
18	Mangelsdorf U. S. 13	69.3	92	12
19	United U-59	69.1	90	5
20	P. A. G. 173	68.8	90	14
21	Pioneer 300	68.8	93	20
22	Funk G-99	68.7	87	13
23	Missouri King 101	68.4	81	25
24	DeKalb 800A	68.1	88	17
25	Merit 46	67.5	79	34
26	Brodbeck Imp. 851	66.7	96	30
27	Keystone 39	66.4	87	7
28	Iowealth 25	66.4	91	19
29	Missouri 313	66.3	83	15
30	P. A. G. 170	66.1	92	18
31	Iowealth 29A	65.9	89	13
32	Ward 120A	65.8	77	23
33	Embro 36	65.8	89	15
34	Tomson 7	65.2	83	40
35	Merit U. S. 13	65.1	85	10
36	Merit 30	64.5	90	10
37	Shannon 1300	63.6	87	30
38	Pioneer 334	63.0	89	16
39	United U-50	62.8	88	14
40	Merit 48	62.2	87	15
41	Missouri King U. S. 13	62.0	82	15
42	Funk G-53	61.9	88	16
43	DeKalb 816	60.9	86	14
44	Pioneer 335	60.7	91	13
45	Ohio C-38	60.0	88	32
46	P. A. G. 3250 (ex)	58.8	90	26
47	United U-57	56.4	80	22
48	Razorback Mo. 8	54.7	93	45
49	Embro 95	50.7	82	26
	Average	67.2	88	19

Significant Difference: A difference of less than 10.8 bushels per acre between any two strains should not be considered significant in this test.

TABLE VIII.--PAYNE COUNTY (Bottom Land) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Medium Maturity				
4 grains planted per hill and thinned to three plants				
1	McCurdy 135	80.8	87	38
2	Embro 49	79.8	92	32
3	Illinois 200	78.9	89	36
4	P. A. G. 631 (w)	78.2	92	39
5	Funk G-527W (w)	78.1	84	50
6	Lowe 523	77.6	93	18
7	Kansas 2234 (w)	76.9	92	38
8	Mangelsdorf Mo. 148	76.8	97	21
9	P. A. G. 617W (w)	76.2	84	27
10	Embro 155W (w)	76.1	91	16
11	Funk G-789W (w)	76.0	89	29
12	Funk G-529W (w)	76.0	93	30
13	Missouri King Mo. 148	74.4	88	23
14	P. A. G. 3202 (ex)	73.6	88	17
15	Kansas 2275 (w)	73.2	95	36
16	Tomson 44	73.0	85	32
17	K. F. U. 400 (w)	73.0	89	64
18	Pioneer 302	72.8	91	14
19	DeKalb 982 (w)	72.7	88	25
20	United U-68	71.9	88	27
21	United U-65	71.9	82	49
22	K. F. U. 300	71.4	93	17
23	DeKalb 898	70.7	93	12
24	Iowealth TX 1	69.4	89	27
25	Ward 125	68.9	87	29
26	Lowe 820	68.8	85	29
27	Keystone 45	67.7	92	17
28	Merit Mo. 148	67.0	86	18
29	K. F. U. 500	67.0	86	31
30	Oklahoma T46 (ex)	67.0	79	37
31	Keystone 40	65.7	84	36
32	Ohio C-12	64.8	90	17
33	Merit 120	64.8	80	25
34	Watson 101	64.5	90	36
35	DeKalb 923 (w)	64.4	87	36
36	Crost-Rite Mo. 148	64.2	85	30
37	Funk G-82	64.0	80	21
38	Funk G-145	64.0	88	32
39	Kansas 1639	63.8	93	28
40	Pioneer 332	63.1	83	17
41	Kansas 1784	62.9	91	18
42	Shannon 1500	61.7	88	40
43	Indiana 818	61.5	97	17
44	Crost-Rite Mo. 8	61.0	97	50
45	Funk G-80	56.4	88	28
46	Missouri King Mo. 8	55.3	90	38
47	Mangelsdorf Mo. 8	54.1	89	38
48	*Kans Cert. Midland	54.1	90	69
49	*Midland Yellow Dent	48.5	90	49
	Average	68.7	89	31

Significant Difference: A difference of less than 15.3 bushels per acre between any two strains should not be considered significant in this test.

TABLE VIII.--PAYNE COUNTY (Bottom land) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Late Maturity				
3 grains planted per hill and thinned to two plants				
1	Texas 24	77.4	93	26
2	Funk G-711	74.5	98	22
3	Ward 135W (w)	74.4	94	28
4	Tennessee 10 (w)	72.9	94	42
5	Dixie 17 (w)	72.1	97	35
6	Texas 11W (w)	72.1	94	53
7	Watson 206 (w)	69.6	92	36
8	Texas 20	68.8	89	50
9	McCurdy 1000	68.5	86	29
10	Merit Texas 18	68.1	92	57
11	DeKalb 1022	67.9	89	32
12	K. F. U. 10H	67.9	89	50
13	Crost-Rite Mo. 5171 (w)	67.5	93	24
14	McCurdy 1005W (w)	67.4	93	38
15	Texas 12	66.7	97	32
16	Texas 9W (w)	66.6	98	41
17	Funk G-716	66.2	92	41
18	Keystone 106W (w)	65.9	97	25
19	Oklahoma 7803 (ex)	65.7	89	40
20	Oklahoma 8812 (ex)	65.6	88	32
21	K. F. U. 800	65.4	97	20
22	Funk G-788W (w)	65.4	98	29
23	K. F. U. 20H	65.4	89	35
24	Oklahoma T123 (ex)	64.8	95	28
25	Kansas 1583	64.6	96	16
26	Oklahoma T164 (ex)	63.4	90	36
27	United U-72	63.3	92	22
28	K. F. U. 750	62.7	98	44
29	Oklahoma 8817 (ex)	62.4	93	30
30	DeKalb 1002	62.3	94	34
31	Texas 18	61.3	96	56
32	DeKalb 1008	59.6	98	46
33	Oklahoma 8818 (ex)	58.8	94	23
34	Lowe 840	58.6	86	43
35	Oklahoma 8815 (ex)	58.4	81	29
36	Texas 8	57.3	95	34
37	Oklahoma 8813 (ex)	57.2	93	11
38	Dixie 44	57.2	89	43
39	Oklahoma T129 (ex)	56.8	96	37
40	Ward 130	56.4	92	35
41	Kansas 1585	56.1	95	18
42	Embro 1001	55.7	93	39
43	Oklahoma 8816 (ex)	55.1	90	17
44	Keystone 222	55.0	93	54
45	Oklahoma 8814 (ex)	54.1	84	21
46	Oklahoma T134 (ex)	52.4	96	50
47	*Reid Yellow Dent	48.3	88	61
48	*Oklahoma Silvermine (w)	44.7	93	51
49	*Ferguson Yellow Dent	44.6	89	45
	Average	62.7	93	35

Significant Difference: A difference of less than 9.0 bushels per acre between any two strains should not be considered significant in this test.

TABLE IX.--PAYNE COUNTY (Upland)
 Oklahoma Agricultural Experiment Station Farm;
 Perkins, 1 mile north, 1 mile west
 Planted April 10; harvested October 26

Rank	Strain	Yield	Pct. Stand	Pot. Lodged
Early Maturity				
4 grains planted per hill and thinned to three plants				
1	McCurdy 123M	54.3	93	12
2	Funk G-94	54.1	97	14
3	Iowealth 29A	53.3	90	16
4	Keystone 42	52.8	97	11
5	DeKalb 817A	52.8	97	12
6	Keystone 38	52.3	90	11
7	U. S. 13	52.0	96	13
8	Missouri 313	52.0	95	22
9	McCurdy 987M	50.8	97	15
10	Mangelsdorf U. S. 13	50.3	95	14
11	K. F. U. 100	50.1	91	15
12	Merit U. S. 13	50.0	93	12
13	Pioneer 336	49.7	99	15
14	Missouri King U. S. 13	49.5	95	12
15	Iowealth 25A	49.4	93	8
16	Razorback U. S. 13	49.4	93	17
17	Keystone U. S. 13	49.3	94	9
18	Missouri King 101	49.3	93	17
19	United U-50	49.0	97	13
20	Funk G-53	49.0	95	16
21	Merit 32	48.5	97	11
22	Ward 120A	48.5	80	13
23	P. A. G. 3250 (ex)	48.3	91	19
24	Pioneer 300	48.2	95	17
25	United U-59	48.0	98	5
26	Iowealth 25	48.0	90	26
27	Brodbeck Imp. 851	47.9	93	13
28	Tomson 35	47.8	93	16
29	Merit 30	47.8	91	17
30	Merit 46	47.6	93	15
31	P. A. G. 170	47.5	97	23
32	Keystone 39	46.8	95	14
33	Pioneer 505W (w)	46.2	95	10
34	Pioneer 335	45.6	94	15
35	DeKalb 800A	45.5	94	9
36	Embro 36	45.5	97	10
37	Indiana 610B	45.1	95	26
38	P. A. G. 173	45.0	95	12
39	United U-57	44.9	98	12
40	Pioneer 334	43.9	93	27
41	DeKalb 816	43.8	96	10
42	Ohio C-38	43.6	96	25
43	Shannon 1300	43.4	96	14
44	Funk G-99	42.8	90	15
45	Tomson 7	41.5	96	11
46	Merit 48	41.5	93	13
47	Embro 95	40.6	91	16
48	DeKalb 875	40.1	98	16
49	Razorback Mo. 8	38.7	93	23
	Average	47.6	94	15

Significant Difference: A difference of less than 4.9 bushels per acre between any two strains should not be considered significant in this test.

TABLE IX.--PAYNE COUNTY (Upland) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Medium Maturity				
3 grains planted per hill and thinned to two plants				
1	Missouri King Mo. 148	53.4	99	13
2	Embro 155W (w)	52.6	98	12
3	K. F. U. 500	52.2	98	13
4	Embro 49	52.1	98	15
5	P. A. G. 631 (w)	51.8	93	28
6	Mangelsdorf Mo. 148	51.6	98	12
7	Crost-Rite Mo. 148	51.2	96	15
8	Indiana 818	51.1	97	10
9	DeKalb 982 (w)	50.6	98	8
10	Lowe 523	50.2	96	6
11	McCurdy 135	50.2	97	24
12	Ohio C-12	50.1	97	10
13	Kansas 1784	50.1	99	14
14	Ward 125	49.8	96	16
15	Kansas 2275 (w)	49.5	99	24
16	United U-68	49.4	98	13
17	Illinois 200	49.2	96	14
18	P. A. G. 617W (w)	48.7	94	18
19	Kansas 2234 (w)	48.6	99	37
20	K. F. U. 300	48.5	100	13
21	Kansas 1639	48.3	98	12
22	Keystone 40	47.9	99	18
23	Tomson 44	47.8	98	15
24	Keystone 45	47.5	96	16
25	Merit Mo. 148	47.5	96	20
26	Pioneer 302	47.4	98	12
27	P. A. G. 3202 (ex)	47.3	93	10
28	Funk G-82	47.2	96	8
29	K. F. U. 400 (w)	46.7	96	20
30	United U-65	46.1	98	19
31	Pioneer 332	45.9	97	14
32	Funk G-529W (w)	45.9	98	19
33	DeKalb 898	45.7	100	6
34	Funk G-145	45.4	91	26
35	Funk G-80	44.8	97	11
36	Lowe 820	44.8	98	13
37	Iowealth TX 1	44.7	98	17
38	Shannon 1500	44.4	98	15
39	Merit 120	44.2	94	11
40	DeKalb 923 (w)	43.9	96	5
41	Missouri King Mo. 8	43.7	94	26
42	Oklahoma T46 (ex)	43.0	95	9
43	Funk G-527W (w)	42.7	93	20
44	Mangelsdorf Mo. 8	42.7	99	22
45	Crost-Rite Mo. 8	42.4	96	19
46	Watson 101	40.8	99	16
47	Funk G-789W (w)	40.3	96	20
48	*Kans. Cert. Midland	36.1	95	34
49	*Midland Yellow Dent	35.2	93	40
	Average	47.0	97	16

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

TABLE IX.--PAYNE COUNTY (Upland) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Late Maturity				
3 grains planted per hill and thinned to two plants				
1	Oklahoma 8817 (ex)	50.2	99	10
2	Keystone 106W (w)	49.5	96	14
3	Keystone 222	49.0	96	14
4	Oklahoma 8812 (ex)	48.7	99	9
5	Ward 130	48.7	97	16
6	Oklahoma 7803 (ex)	48.0	98	21
7	Tennessee 10 (w)	47.8	100	21
8	Texas 20	47.6	98	26
9	Oklahoma 8813 (ex)	47.4	98	7
10	Texas 24	47.4	97	8
11	Crost-Rite Mo. 5171 (w)	47.0	97	6
12	Oklahoma 8818 (ex)	46.8	98	12
13	Oklahoma 8816 (ex)	46.8	94	13
14	Dixie 17 (w)	46.6	99	20
15	K. F. U. 20H	46.5	90	19
16	Watson 206 (w)	46.3	99	18
17	McCurdy 1005W (w)	46.0	96	21
18	Oklahoma 8815 (ex)	45.9	97	11
19	Oklahoma T123 (ex)	45.8	98	17
20	Funk G-711	45.8	98	21
21	DeKalb 1002	45.7	97	17
22	K. F. U. 800	45.6	97	19
23	Dixie 44	45.5	95	16
24	Ward 135W (w)	45.5	97	17
25	Texas 11W (w)	45.5	97	30
26	Texas 9W (w)	45.5	99	47
27	Funk G-716	45.3	96	18
28	Kansas 1583	45.2	97	19
29	McCurdy 1000	44.8	98	17
30	K. F. U. 10H	44.6	98	36
31	Lowe 840	44.3	97	19
32	Texas 18	44.2	98	39
33	Merit Texas 18	44.1	98	45
34	K. F. U. 750	43.7	98	35
35	Embro 1001	43.6	92	33
36	Texas 12	43.4	98	19
37	United U-72	43.0	98	9
38	Kansas 1585	42.8	96	17
39	Oklahoma 8814 (ex)	41.9	91	11
40	DeKalb 1022	41.8	97	27
41	DeKalb 1008	41.4	98	21
42	Oklahoma T134 (ex)	41.3	79	46
43	Oklahoma T164 (ex)	41.2	89	9
44	Oklahoma T129 (ex)	39.7	95	30
45	Funk G-788W (w)	39.1	98	25
46	Texas 8	36.5	97	19
47	*Reid Yellow Dent	33.4	97	41
48	*Oklahoma Silvermine (w)	31.3	96	40
49	*Ferguson Yellow Dent	29.5	95	29
	Average	44.2	96	22

Significant Difference: A difference of less than 4.0 bushels per acre between any two strains should not be considered significant in this test.

TABLE X.--SEMINOLE COUNTY (North Canadian Bottom)
 Ambrose Grain Farm; Prague, 8 miles south and 3 miles west
 Planted April 5; harvested September 22

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Early Maturity 4 grains planted per hill				
1	U. S. 13	96.0	84	6
2	McCurdy 987M	95.8	92	6
3	Keystone 38	94.5	87	3
4	Keystone 39	93.6	79	8
5	Pioneer 336	93.1	92	5
6	Pioneer 300	92.4	74	5
7	Iowealth 25A	92.3	80	6
8	DeKalb 817A	91.2	90	5
9	DeKalb 800A	90.6	87	7
10	Merit 32	90.5	91	6
11	Keystone 42	90.3	81	4
12	Keystone U. S. 13	89.9	78	2
13	Mangelsdorf U. S. 13	89.6	91	5
14	Missouri King 101	88.5	85	6
15	Missouri 313	88.4	78	8
16	Iowealth 29A	87.7	82	7
17	McCurdy 123M	87.6	70	5
18	Pioneer 334	87.2	83	14
19	Merit 46	86.8	94	7
20	P. A. G. 170	86.8	82	8
21	Missouri King U. S. 13	86.5	68	4
22	Funk G-53	86.3	77	7
23	Merit 30	85.9	74	8
24	Pioneer 335	85.8	76	5
25	DeKalb 816	85.8	86	6
26	Tomson 35	85.5	93	3
27	Funk G-94	85.0	80	7
28	K. F. U. 100	84.7	78	7
29	United U-59	84.6	86	2
30	DeKalb 875	83.5	83	5
31	Tomson 7	83.1	84	7
32	P. A. G. 3250 (ex)	83.0	79	6
33	Iowealth 25	82.0	75	3
34	United U-57	81.5	92	6
35	Razorback U. S. 13	81.2	70	4
36	Merit U. S. 13	80.3	62	6
37	Indiana 610B	80.0	76	16
38	Shannon 1300	79.9	86	7
39	United U-50	79.8	83	6
40	Merit 48	78.8	89	10
41	P. A. G. 173	78.7	83	9
42	Ohio C-38	78.6	78	7
43	Embros 36	77.0	75	4
44	Embros 95	77.0	70	8
45	Brodbeck Imp. 851	76.7	84	8
46	Ward 120A	76.2	72	9
47	Funk G-99	75.0	67	12
48	Razorback Mo. 8	72.2	86	11
49	Pioneer 505W (w)	69.6	63	9
	Average	84.8	82	7

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

TABLE X.--SEMINOLE COUNTY (North Canadian Bottom) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Medium Maturity 4 grains planted per hill				
1	United U-65	104.6	65	12
2	Kansas 2275 (w)	103.7	86	8
3	Kansas 2234 (w)	100.8	89	9
4	Illinois 200	97.8	83	7
5	Indiana 818	95.8	84	7
6	P. A. G. 631 (w)	95.0	83	10
7	Keystone 40	94.8	79	7
8	McCurdy 135	94.1	82	20
9	Missouri King Mo. 148	93.9	87	8
10	Ohio C-12	92.8	83	8
11	DeKalb 982 (w)	92.7	73	8
12	Crost-Rite Mo. 148	92.5	79	7
13	Mangelsdorf Mo. 148	92.3	81	11
14	DeKalb 898	91.5	83	8
15	K. F. U. 500	91.0	79	6
16	United U-68	90.5	90	12
17	Tomson 44	90.3	81	6
18	Lowe 523	89.2	90	7
19	Embro 49	89.2	81	8
20	Funk G-80	88.5	76	7
21	Pioneer 302	88.3	83	6
22	Lowe 820	88.1	88	3
23	Iowalth TX 1	87.8	85	7
24	Watson 101	87.5	76	18
25	Embro 155W (w)	87.0	75	5
26	Crost-Rite Mo. 8	86.8	82	8
27	Pioneer 332	84.7	93	5
28	Keystone 45	84.7	91	13
29	Kansas 1784	84.3	82	11
30	K. F. U. 400 (w)	83.4	77	18
31	Funk G-527W (w)	83.3	78	17
32	Funk G-82	82.7	83	15
33	K. F. U. 300	81.4	74	10
34	Funk G-789W (w)	79.6	84	18
35	DeKalb 923 (w)	78.6	85	10
36	Kansas 1639	77.4	82	11
37	Merit Mo. 148	77.3	66	11
38	Funk G-145	77.0	60	17
39	P. A. G. 3202 (ex)	75.5	76	8
40	Funk G-529W (w)	73.5	73	14
41	Shannon 1500	73.4	65	10
42	Ward 125	73.3	54	11
43	Merit 120	68.8	67	12
44	P. A. G. 617W (w)	67.6	53	5
45	Oklahoma T46 (ex)	66.1	87	9
46	Missouri King Mo. 8	63.3	56	20
47	Mangelsdorf Mo. 8	62.0	46	14
48	*Kans. Cert. Midland	58.6	82	32
49	*Midland Yellow Dent	57.4	76	33
	Average	84.1	78	11

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

TABLE X.--SEMINOLE COUNTY (North Canadian Bottom) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Late Maturity 3 grains planted per hill				
1	Texas 24	97.5	87	8
2	Texas 11W (w)	92.5	86	24
3	Texas 18	92.4	94	16
4	Dixie 17 (w)	90.6	98	16
5	Texas 20	89.7	86	30
6	Funk G-788W (w)	89.5	94	39
7	Lowe 840	89.4	83	15
8	Funk G-711	89.3	91	10
9	K. F. U. 750	87.5	90	16
10	Crost-Rite Mo. 5171 (w)	86.3	89	16
11	Ward 135W (w)	84.9	86	17
12	Tennessee 10 (w)	84.7	93	24
13	DeKalb 1002	84.5	94	9
14	Watson 206 (w)	83.8	85	10
15	Funk G-716	83.7	94	12
16	Oklahoma 8812 (ex)	83.1	81	17
17	Merit Texas 18	82.2	72	27
18	Keystone 222	81.8	71	13
19	Texas 12	80.3	93	16
20	Keystone 106W (w)	80.2	86	7
21	McCurdy 1000	79.5	88	15
22	Oklahoma T123 (ex)	79.4	99	18
23	Oklahoma T164 (ex)	78.5	88	8
24	DeKalb 1022	78.5	100	18
25	Oklahoma 8816 (ex)	78.3	75	12
26	K. F. U. 10H	77.6	84	32
27	Texas 9W (w)	77.0	85	19
28	DeKalb 1008	76.8	80	10
29	Oklahoma 8817 (ex)	76.5	71	14
30	McCurdy 1005W (w)	76.0	86	13
31	Texas 8	74.9	76	10
32	Oklahoma 7803 (ex)	74.8	96	9
33	Kansas 1583	74.1	90	18
34	Oklahoma T129 (ex)	73.2	86	10
35	United U-72	72.6	94	5
36	K. F. U. 800	72.3	82	14
37	Oklahoma T134 (ex)	72.1	81	22
38	Oklahoma 8818 (ex)	70.1	89	7
39	Ward 130	67.7	80	15
40	Oklahoma 8813 (ex)	67.6	97	11
41	K. F. U. 20H	64.3	75	31
42	Oklahoma 8815 (ex)	64.1	73	16
43	Dixie 44	63.6	85	21
44	Embros 1001	60.2	57	11
45	Kansas 1585	56.2	84	12
46	*Oklahoma Silvermine (w)	51.5	85	30
47	*Ferguson Yellow Dent	50.3	78	22
48	*Reid Yellow Dent	49.7	60	35
49	Oklahoma 8814 (ex)	45.9	83	10
	Average	76.2	85	17

Significant Difference: A difference of less than 12.4 bushels per acre between any two strains should not be considered significant in this test.

TABLE XI.--TULSA COUNTY (Bottom land)
 Oklahoma Vegetable Research Station; Bixby, $1\frac{1}{2}$ miles northeast (across river)
 Planted April 13; harvested September 1

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Early Maturity 4 grains planted per hill				
1	Keystone 42	105.6	96	4
2	Missouri 313	103.3	85	4
3	Pioneer 336	102.2	88	5
4	McCurdy 123M	102.0	83	4
5	U. S. 13	102.0	83	5
6	DeKalb 875	97.9	89	2
7	DeKalb 817A	97.4	91	5
8	Iowealth 25A	97.0	93	2
9	Merit 32	96.5	86	5
10	Merit 30	96.4	93	5
11	Pioneer 300	96.0	90	5
12	Tomson 35	94.8	97	7
13	Merit 46	94.3	85	3
14	Indiana 610B	94.2	83	16
15	P. A. G. 170	93.7	89	4
16	Keystone 38	93.3	82	3
17	Keystone U. S. 13	93.2	84	3
18	Keystone 39	92.8	92	3
19	Funk G-94	91.4	87	3
20	P. A. G. 173	91.0	78	4
21	McCurdy 987M	90.5	83	3
22	Missouri King 101	90.2	80	5
23	Pioneer 334	89.8	90	9
24	Iowealth 29A	89.3	90	4
25	DeKalb 800A	88.6	90	4
26	DeKalb 816	87.7	86	3
27	Razorback U. S. 13	86.5	86	3
28	United U-59	85.8	89	3
29	K. F. U. 100	85.5	72	4
30	P. A. G. 3250 (ex)	85.5	92	9
31	Brodbeck Imp. 851	85.3	89	6
32	Tomson 7	84.1	83	5
33	United U-50	83.4	87	3
34	Iowealth 25	83.1	86	10
35	Ohio C-38	83.0	83	7
36	Mangelsdorf U. S. 13	82.9	84	4
37	Embro 36	82.7	92	4
38	Shannon 1300	82.5	85	5
39	Funk G-99	82.0	78	8
40	Razorback Mo. 8	81.1	88	12
41	Funk G-53	79.3	76	5
42	Pioneer 505W (w)	79.1	55	17
43	Merit U. S. 13	78.6	68	3
44	Merit 48	77.4	74	3
45	United U-57	75.7	86	3
46	Pioneer 335	75.1	92	4
47	Embro 95	74.7	82	4
48	Ward 120A	73.0	61	3
49	Missouri King U. S. 13	70.6	61	2
	Average	88.3	84	5

Significant Difference: A difference of less than 11.8 bushels per acre between any two strains should not be considered significant in this test.

TABLE XI.--TULSA COUNTY (Bottom land) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Medium Maturity 4 grains planted per hill				
1	Kansas 2234 (w)	119.7	87	10
2	Kansas 2275 (w)	114.6	91	7
3	Missouri King Mo. 8	114.4	88	5
4	Mangelsdorf Mo. 148	112.1	93	2
5	Embros 49	111.6	96	5
6	United U-65	111.4	91	13
7	Pioneer 302	109.6	100	2
8	Croft-Rite Mo. 148	106.8	83	6
9	P. A. G. 631 (w)	103.7	85	7
10	McCurdy 135	101.4	75	8
11	Indiana 818	100.5	85	3
12	Iowalth TX 1	99.9	81	12
13	DeKalb 982 (w)	99.5	63	2
14	Keystone 40	99.2	83	5
15	Keystone 45	98.9	89	1
16	Funk G-789W (w)	98.2	75	8
17	Lowe 523	96.5	89	3
18	Illinois 200	96.5	79	6
19	Lowe 820	96.4	91	2
20	K. F. U. 300	95.7	83	10
21	United U-68	95.6	85	7
22	Funk G-529W (w)	95.1	87	5
23	Merit Mo. 148	94.7	85	4
24	Tomson 44	94.5	83	3
25	Funk G-527W (w)	94.4	89	10
26	Funk G-80	93.6	91	4
27	Embros 155W (w)	92.0	70	4
28	P. A. G. 3202 (ex)	91.5	86	4
29	Watson 101	91.5	88	8
30	Kansas 1784	91.2	89	4
31	Ohio C-12	89.0	68	10
32	Merit 120	88.5	79	2
33	Funk G-82	88.5	92	8
34	DeKalb 898	87.7	79	4
35	K. F. U. 500	87.7	69	5
36	DeKalb 923 (w)	86.9	78	5
37	Ward 125	84.4	66	3
38	Funk G-145	84.0	71	15
39	Oklahoma T46 (ex)	83.4	83	7
40	K. F. U. 400 (w)	83.2	67	7
41	Croft-Rite Mo. 8	78.4	78	9
42	Kansas 1639	77.5	82	4
43	Shannon 1500	72.8	67	7
44	P. A. G. 617W (w)	72.2	47	6
45	Pioneer 332	67.2	87	8
46	Mangelsdorf Missouri 8	65.6	82	9
47	Missouri King Mo. 8	61.8	57	11
48	*Kans. Cert. Midland	57.0	78	26
49	*Midland Yellow Dent	51.7	71	28
	Average	91.6	81	7

Significant Difference: A difference of less than 12.7 bushels per acre between any two strains should not be considered significant in this test.

TABLE XI.--TULSA COUNTY (Bottom land) continued

Rank	Strain	Yield	Pct. Stand	Pct. Lodged
Late Maturity 3 grains planted per hill				
1	Dixie 17 (w)	116.1	100	15
2	Texas 11W (w)	112.5	98	18
3	Tennessee 10 (w)	110.0	93	9
4	Funk G-788W (w)	107.6	97	26
5	McCurdy 1005W (w)	106.6	99	18
6	Lowe 840	104.4	96	11
7	Ward 135W (w)	104.1	85	20
8	Keystone 106W (w)	100.1	96	3
9	Watson 206 (w)	98.8	89	6
10	Funk G-711	97.5	93	21
11	Texas 24	96.8	96	4
12	Keystone 222	95.3	98	7
13	Oklahoma T134 (ex)	94.3	90	20
14	Kansas 1583	91.8	99	4
15	K. F. U. 10H	91.5	98	24
16	Oklahoma 8812 (ex)	90.9	99	3
17	DeKalb 1008	90.0	98	9
18	K. F. U. 750	89.8	93	20
19	DeKalb 1002	89.5	76	4
20	McCurdy 1000	89.1	90	4
21	Oklahoma 8813 (ex)	88.2	97	2
22	Texas 12	87.2	90	18
23	K. F. U. 20H	87.1	58	22
24	Funk G-716	86.0	91	13
25	Oklahoma 8817 (ex)	85.6	99	4
26	K. F. U. 800	85.5	98	2
27	Texas 18	84.5	89	31
28	Oklahoma T123 (ex)	84.1	99	7
29	Crost-Rite Mo. 5171 (w)	83.6	83	3
30	Texas 8	82.1	94	12
31	DeKalb 1022	81.0	93	4
32	United U-72	80.6	98	2
33	Oklahoma 7803 (ex)	80.4	95	6
34	Kansas 1585	79.8	95	2
35	Oklahoma T129 (ex)	78.9	99	19
36	Dixie 44	78.5	97	6
37	Merit Texas 18	78.3	86	42
38	Texas 9W (w)	77.4	95	12
39	Ward 130	75.5	85	12
40	Oklahoma T164 (ex)	72.5	82	6
41	Oklahoma 8818 (ex)	70.6	96	1
42	Texas 20	70.1	54	23
43	Oklahoma 8815 (ex)	69.7	73	3
44	Oklahoma 8816 (ex)	69.1	85	1
45	*Oklahoma Silvermine (w)	67.6	90	25
46	Embro 1001	66.2	68	11
47	Oklahoma 8814 (ex)	63.8	91	7
48	*Ferguson Yellow Dent	57.5	90	20
49	*Reid Yellow Dent	42.6	89	24
	Average	85.5	91	12

Significant Difference: A difference of less than 13.1 bushels per acre between any two strains should not be considered significant in this test.

SOURCES OF SEED

Source	Strain	Maturity Group
Brodbeck Bros., R.R. #1, Wabash, Ind.	Brodbeck Improved 851	Early
C. F. McMullin Estate, Sikeston, Mo.	Crost-Rite Mo. 8	Medium
	Crost-Rite Mo. 148	Medium
	Crost-Rite Mo. 5171 (w)	Late
DeKalb Agricultural Assn., Inc., DeKalb, Illinois	DeKalb 800A	Early
	DeKalb 816	Early
	DeKalb 817A	Early
	DeKalb 875	Early
	DeKalb 898	Medium
	DeKalb 923 (w)	Medium
	DeKalb 982 (w)	Medium
	DeKalb 1002	Late
	DeKalb 1008	Late
DeKalb 1022	Late	
Oklahoma Experiment Station, Stillwater, Oklahoma	Dixie 17 (w)	Late
	Dixie 44	Late
Ed. F. Mangelsdorf & Bro., Inc., St. Louis 4, Missouri	Embryo 36	Early
	Embryo 49	Medium
	Embryo 95	Early
	Embryo 155W (w)	Medium
	Embryo 1000	Late
Peppard Seed Co., Kansas City 7, Mo.	Funk G-53	Early
	Funk G-80	Medium
	Funk G-82	Medium
	Funk G-94	Early
	Funk G-99	Early
	Funk G-145	Medium
	Funk G-527W (w)	Medium
	Funk G-529W (w)	Medium
	Funk G-711	Late
	Funk G-716	Late
	Funk G-788W (w)	Late
Funk G-789W (w)	Medium	
Oklahoma Experiment Station, Stillwater, Oklahoma	*Ferguson Yellow Dent	Late
	Illinois 200	Medium
	Indiana 610B	Early
	Indiana 818	Medium
The Iowearth Company, Kansas City, Mo.	Iowearth 25	Early
	Iowearth 25A	Early
	Iowearth 29A	Early
	Iowearth TX 1	Medium
Oklahoma Experiment Station, Stillwater, Oklahoma	Kansas 1583	Late
	Kansas 1585	Late
	Kansas 1639	Medium
	Kansas 1784	Medium
	Kansas 2234 (w)	Medium
	Kansas 2275 (w)	Medium
*Kans. Cert. Midland	Medium	
Corneli Seed Co., St. Louis 2, Mo.	Keystone 38	Early
	Keystone 39	Early
	Keystone 40	Medium
	Keystone 42	Early
	Keystone 45	Medium
	Keystone 106W (w)	Late
	Keystone 222	Late
	Keystone U. S. 13	Early
Farmers Union Central Coop. Exch., St. Marys, Kansas	K. F. U. 10H	Late
	K. F. U. 20H	Late
	K. F. U. 100	Early
	K. F. U. 300	Medium
	K. F. U. 400 (w)	Medium
	K. F. U. 500	Medium
	K. F. U. 750	Late
	K. F. U. 800	Late

SOURCES OF SEED (Continued)

Source	Strain	Maturity Group
Lowe Seed Co., Aroma Park, Illinois	Lowe 523	Medium
	Lowe 820	Medium
	Lowe 840	Late
Ed. F. Mangelsdorf & Bro., Inc., St. Louis 4, Missouri	Mangelsdorf Mo. 8	Medium
	Mangelsdorf Mo. 148	Medium
	Mangelsdorf U. S. 13	Early
McCurdy Seed Co., Memphis, Tennessee	McCurdy 123M	Early
	McCurdy 135	Medium
	McCurdy 987M	Early
	McCurdy 1000	Late
	McCurdy 1005W (w)	Late
Merit Mills, Inc., Oklahoma City, Oklahoma	Merit 30	Early
	Merit 32	Early
	Merit 46	Early
	Merit 48	Early
	Merit 120	Medium
	Merit Mo. 148	Medium
	Merit Texas 18	Late
	Merit U. S. 13	Early
Oklahoma Experiment Station, Stillwater, Oklahoma	*Midland Yellow Dent	Medium
Missouri Hybrid Corn Co., Fulton, Mo.	Missouri King Mo. 8	Medium
	Missouri King Mo. 148	Medium
	Missouri King U. S. 13	Early
	Missouri King 101	Early
Oklahoma Experiment Station, Stillwater, Oklahoma	Missouri 313	Early
	Ohio C-12	Medium
	Ohio C-38	Early
	Oklahoma 7803 (ex)	Late
	Oklahoma 8812 (ex)	Late
	Oklahoma 8813 (ex)	Late
	Oklahoma 8814 (ex)	Late
	Oklahoma 8815 (ex)	Late
	Oklahoma 8816 (ex)	Late
	Oklahoma 8817 (ex)	Late
	Oklahoma 8818 (ex)	Late
	Oklahoma T46 (ex)	Medium
	Oklahoma T123 (ex)	Late
	Oklahoma T129 (ex)	Late
	Oklahoma T134 (ex)	Late
Oklahoma T164 (ex)	Late	
	*Oklahoma Silvermine (w)	Late
Pfister Associated Growers, Inc., El Paso, Illinois	P. A. G. 170	Early
	P. A. G. 173	Early
	P. A. G. 617W (w)	Medium
	P. A. G. 631 (w)	Medium
	P. A. G. 3202 (ex)	Medium
	P. A. G. 3205 (ex)	Early
Garst and Thomas Hybrid Corn Co., Coon Rapids, Iowa	Pioneer 300	Early
	Pioneer 302	Medium
	Pioneer 332	Medium
	Pioneer 334	Early
	Pioneer 335	Early
	Pioneer 336	Early
	Pioneer 505W (w)	Early
Jones Brothers Seed Co., Van Buren, Arkansas	Razorback U. S. 13	Early
	Razorback Mo. 8	Early
Oklahoma Experiment Station, Stillwater, Oklahoma	*Reid Yellow Dent	Late
Shannon Feed Company, Tulsa, Okla.	Shannon 1300	Early
	Shannon 1500	Medium