

# THE OKLAHOMA STATE-WIDE SMALL GRAIN VARIETY TESTING PROGRAM

**PROGRESS REPORT , 1958**

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## Acknowledgement

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# The Oklahoma State-wide Small Grain Variety Testing Program;

Progress Report, 1958

By ROY OSWALT and A. M. SCHLEHUBER  
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This publication summarizes the yield performance of small grain varieties in the Oklahoma state-wide tests conducted since 1952. In order to obtain more reliable data about the adaptation of small grain varieties in the state, experiments have been conducted in three general areas: (1) north-northwest Oklahoma (2) south-west Oklahoma and (3) eastern Oklahoma. Yield data for each location and area are presented in Tables 1 to 8, inclusive.

Average yields are reported for each location and the locations are grouped by area to give a more general view for each variety tested. A percentage comparison is also shown for each variety. This comparison is made with an adapted commercial variety grown in the same test for the same number of years. Since the performance of varieties varies from year to year, these average yields are a better indication of the expected performance of a variety than results of a single year's test.

#### Types Of Tests:

The state-wide testing program includes two types of tests: "Experiment Station Supervised tests" and "Observational tests". The tables indicate the type of test by the symbols "(S)" and "(O)", respectively.

The Experiment Station Supervised tests are handled by Station personnel. Land for these tests is secured by local interested cooperators; and the land is prepared by the farmer on whose land the test is located. The Observational tests are planted by a local cooperator, who is furnished seed and plans for seeding and harvesting by the Experiment Station. This cooperator may use the test for observation alone or if he plants and harvests the test according to the plans, Station personnel will thresh the grain and compute these data.

The State-wide tests serve three purposes:

- (1) They give the farmer and grainmen in each locality an opportunity to observe and compare recommended and other varieties growing side by side in planned competitive tests.
- (2) They give the Station's small grain breeders an opportunity to observe and evaluate the performance of a new variety in several locations of the state, in order that more specific recommendations may be made. This research is extremely valuable in indicating local adaptation of small grain varieties .
- (3) They give small grain pathologists an opportunity to observe diseases on known varieties of small grain in several locations throughout the state.

Wheat  
North-Northwest Oklahoma  
Table I. - Average Yields for 8 Hard Red Winter Wheat Varieties Grown in the Oklahoma  
State-wide Small Grain Test Plots; North Northwest Oklahoma, 1952-1957.

County Location	No. Yrs. Grown		Comanche	Concho	Pawnee	Ponca	Triumph	Westar	Wichita	Crockett
Blaine (S)*	5	Bu. /A.	19.6	17.8	17.7	19.9	17.8	18.3	18.4	24.4 <sup>2</sup> / <sub>**</sub>
Okeene		% of Comanche	100	91	90	101	91	93	94	149
Custer (S)	3	Bu. /A.	18.6	19.0	19.9	24.0	24.8	19.9	20.4	19.4 <sup>1</sup> / <sub>/</sub>
Thomas & Arapaho		% of Comanche	100	102	107	129	133	107	110	167
Garfield (O)	1	Bu. /A.	21.1	22.8	24.0	22.1	25.4	23.3	28.0	- - -
Douglas		% of Comanche	100	108	114	105	120	110	133	- - -
Grant (O)	1	Bu. /A.	34.3	33.1	34.6	31.0	32.9	32.5	36.8	40.9
Pond Creek		% of Comanche	100	97	101	90	96	95	107	119
Harper (S)	1	Bu. /A.	19.6	17.9	26.4	19.1	34.3	10.5	29.9	33.9
Buffalo		% of Comanche	100	91	134	97	175	54	153	173
Kay(S)	6	Bu. /A.	23.9	25.1	25.0	24.2	22.5	23.6	25.8	28.9 <sup>2</sup> / <sub>/</sub>
Ponca City		% of Comanche	100	105	105	101	94	99	108	116
Kay (O)	1	Bu. /A.	28.9	28.4	28.8	25.3	30.1	33.4	31.3	- - -
Blackwell		% of Comanche	100	98	100	88	104	116	108	- - -
Kingfisher (O)	2	Bu. /A.	19.7	20.1	21.9	20.7	20.1	19.1	21.0	- - - -
Hennessey		% of Comanche	100	102	111	105	102	97	107	- - - -
Woods (O)	3	Bu. /A.	18.3	20.9	17.1	16.8	19.4	17.3	18.9	17.3 <sup>1</sup> / <sub>/</sub>
Ashley, Alva & Dacoma		% of Comanche	100	114	93	92	106	95	103	94
Woodward (O)	3	Bu. /A.	10.9	10.1	11.0	13.7	13.1	10.7	12.0	26.8 <sup>1</sup> / <sub>/</sub>
Mutual & Mooreland		% of Comanche	100	93	101	126	120	98	110	167
26 tests, 10 loc. av.			20.3	20.5	20.8	21.1	21.5	19.8	21.9	27.2 <sup>2</sup> / <sub>/</sub>
% of Comanche			100	101	102	104	106	98	108	134
Test Wt. Av.			54.8	55.4	55.0	56.0	58.1	55.1	58.2	57.1

\* (S) = Supervised tests; (O) = Observational tests.

\*\* 1/, 2/, etc. = the number of times a variety was grown in a location or area.

/ Crockett averaged 27.2 bushels per acre in 9 tests, compared to 20.3 bushels for Comanche, 22.2 bushels for Wichita and 23.2 bushels for Triumph in the same 9 tests.

Wheat  
Southwest Oklahoma  
Table II. - Average Yields for 8 Hard Red Winter Wheat Varieties Grown in the Oklahoma  
State-wide Small Grain Test Plots; Southwest Oklahoma, 1952 - 1957.

County Location	No. Yrs. Grown		Comanche	Concho	Pawnee	Ponca	Triumph	Westar	Wichita	Crockett
Beckham (S)* Elk City	3	Bu. /A. % of Comanche	20.4 100	22.3 109	18.9 93	18.2 89	20.1 99	19.7 97	19.0 93	24.1 <sup>1/2</sup> ** 100
Caddo (S) Hinton	6	Bu. /A. % of Comanche	19.5 100	21.4 110	20.6 106	21.3 109	19.8 101	20.5 105	19.8 101	22.0 <sup>2/</sup> 106
Caddo (O) Cyril	1	Bu./A. % of Comanche	37.0 100	41.5 112	43.0 116	37.0 100	41.0 111	32.5 88	24.5 93	----- -----
Grady (S) O. S. U. Cotton Sta.	5	Bu. /A. % of Comanche	22.7 100	28.2 124	23.0 101	24.6 108	28.5 125	24.3 107	24.7 109	30.9 <sup>1/</sup> 108
Grady (S) O. S. U. Fertility Sta.	2	Bu. /A. % of Comanche	19.4 100	18.6 96	18.5 95	18.7 96	11.9 61	18.1 93	16.9 87	22.9 118
Jackson (S) O. S. U. Irrigation Sta.	4	Bu. /A. % of Comanche	28.9 100	28.8 100	31.7 110	30.3 105	27.3 94	28.5 99	26.9 93	41.1 <sup>2/</sup> 114
Jackson (O) Duke	1	Bu. /A. % of Comanche	23.1 100	22.3 97	24.4 106	26.9 116	15.5 67	18.6 81	18.5 80	24.4 106
Kiowa (S) Hobart & Con. #8	7	Bu./A. % of Comanche	10.7 100	11.9 111	12.0 112	12.1 113	13.2 123	12.4 116	13.3 124	13.8 <sup>3/</sup> 159
Oklahoma (O) O. S. U Farm	1	Bu. /A. % of Comanche	25.4 100	23.9 94	20.1 79	28.4 112	16.9 67	25.3 100	17.1 67	15.5 61
Tillman (O) Grandfield	2	Bu. /A % of Comanche	26.0 100	29.7 114	29.8 115	28.6 110	27.4 105	25.9 100	27.3 105	33.8 <sup>1/</sup> 102
Washita (S) Rocky	4	Bu. /A % of Comanche	37.6 100	42.5 113	38.0 101	38.5 102	41.6 111	37.6 100	42.5 113	43.0 <sup>1/</sup> 132
Washita (O) Sentinel	2	Bu. /A. % of Comanche	21.7 100	23.3 107	26.1 120	23.0 106	25.1 116	24.0 111	25.5 118	28.0 <sup>1/</sup> 114
Washita (O) Corn	2	Bu. /A. % of Comanche	18.6 100	29.3 158 <sup>u</sup>	23.7 127	23.1 124	21.8 117	30.0 161	22.2 119	23.3 <sup>1/</sup> 101
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40 tests, 13 loc. av. % of Comanche			22.2 100	24.9 112	23.5 106	23.6 106	23.4 105	23.2 104	23.1 104	25.7 <sup>17/4</sup> 111
Test wt. Av.			56.2	57.2	56.7	57.1	57.7	56.7	58.7	57.1

\*(S) = Supervised Tests, (O) = Observational tests.

\*\* 1/, 2/etc. = the number of times a variety was grown in a location or area.

/ Crockett averaged 25.7 bushels per acre in 17 tests compared to 23.1 bushels for Comanche, 23.4 bushels for Wichita and 21.7 bushels for Triumph in the same 17 tests.

Wheat  
Eastern Oklahoma  
Table III. - Average Yields for 8 Hard Red Winter Wheat Varieties Grown in the Oklahoma  
State-wide Small Grain Test Plots; Eastern Oklahoma, 1952-1957.

County Location	No. Yrs. Grown		Comanche	Concho	Pawnee	Ponca	Triumph	Westar	Wichita	Crockett
Bryan (O)*	2	Bu. /A.	12.8	11.7	11.1	11.5	12.5	10.8	13.7	20.9 <sup>1/**</sup>
Bokchito		% of Comanche	100	91	87	90	98	84	107	127
Craig (S)	3	Bu. /A.	21.3	20.0	21.8	21.8	23.2	23.0	23.2	15.8 <sup>1/</sup>
Welch		% of Comanche	100	94	102	102	109	108	109	126
Craig (O)	1	Bu./A.	26.9	33.4	23.5	28.6	34.0	29.9	21.6	---
Vinita		% of Comanche	100	124	87	106	126	111	80	---
Garvin (S)	5	Bu. /A.	36.2	38.2	35.1	35.0	31.6	35.5	36.9	53.9 <sup>1/</sup>
Stratford		% of Comanche	100	106	97	97	87	98	102	104
Hughes (S)	6	Bu. /A	21.6	24.0	19.8	20.5	20.0	19.4	21.0	20.7 <sup>2/</sup>
Holdenville		% of Comanche	100	111	92	95	93	90	97	120
Johnston (O)	1	Bu. /A.	7.5	8.6	7.9	8.8	7.5	7.2	5.0	---
Murray Jr. College		% of Comanche	100	115	105	117	100	96	67	---
Mayes (S)	3	Bu. /A.	15.3	18.6	15.1	14.7	14.7	14.4	16.3	18.5 <sup>1/</sup>
Adair		% of Comanche	100	119	99	96	96	94	107	95
Muskogee (S)	6	Bu. /A.	24.9	25.8	22.8	24.0	24.8	23.3	26.0	25.1 <sup>2/</sup>
Bacone College		% of Comanche	100	104	92	96	100	94	104	111
Muskogee (O)	3	Bu. /A.	21.5	25.8	21.6	23.5	20.9	24.1	15.8	---
Conner Jr. College		% of Comanche	100	120	100	109	97	112	73	---
Tulsa (O)	3	Bu. /A.	16.2	17.1	16.1	14.4	15.1	16.4	14.6	3.9 <sup>1/</sup>
Liberty		% of Comanche	100	106	99	89	93	101	90	115
Wagoner (S) & (O)	5	Bu. /A.	24.5	25.0	22.6	22.7	22.4	24.4	24.6	27.6 <sup>2/</sup>
Coweta & Broken Arrow		% of Comanche	100	102	92	93	91	100	100	100
Washington (O)	1	Bu. /A.	31.3	36.9	32.0	31.3	35.4	31.4	31.9	---
Bartlesville		% of Comanche	100	118	102	100	113	100	102	---
39 tests, 12 loc. av.			23.0	24.6	21.9	22.3	22.1	22.5	22.7	23.6 <sup>11/</sup>
% of Comanche			100	107	95	97	96	98	99	109

\* (S) = Supervised tests; (O) = Observational tests.

\*\* 1/, 2/, etc. = The number of times a variety was grown in the location or area.

/ Crockett averaged 23.6 bushels per acre in 11 tests, compared to 21.7 bushels for Comanche and 22.6 bushels for Triumph in the same 11 tests.

Test wt. Av.	55.0	56.0	55.5	55.8	57.3	55.9	57.4	55.4
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Oats  
North-Northwest Oklahoma  
Table IV. -Average Yields for 5 Winter Oat Varieties Grown in the Oklahoma  
State-wide Small Grain Test Plots; North-Northwest Oklahoma, 1952-1957.

County Location	No. Yrs. Grown		Cimarron	Forkeddeer	Tennex	Wintok	Bronco
Blaine (S)*	3	Bu. /A.	49.0	46.6	50.8	45.6	45.7 <sup>1/2</sup> **
Okeene		% of Cimarron	100	95	104	93	82
Blaine (S)	1	Bu. /A.	108.6	99.0	90.2	90.2	---
Watonga		% of Cimarron	100	91	83	83	---
Custer (S)	4	Bu. /A.	51.2	45.1	47.4	46.1	62.1 <sup>1/2</sup>
Thomas & Arapaho		% of Cimarron	100	88	93	90	95
Garfield (O)	1	Bu. /A.	58.0	36.4	28.9	39.2	---
Douglas		% of Cimarron	100	63	50	68	--
Grant (O)	1	Bu. /A.	60.6	55.3	61.9	55.0	43.7
Pond Creek		% of Cimarron	100	91	102	91	72
Harper (S)	1	Bu./A.	93.4	77.6	71.0	62.6	54.8
Buffalo		% of Cimarron	100	83	76	67	59
Kay (S)	6	Bu. /A.	60.9	61.6	63.5	57.3	56.5 <sup>2/3</sup>
Ponca City		% of Cimarron	100	101	104	94	87
Kingfisher (O)	2	Bu. /A.	32.4	25.2	25.4	21.0	---
Hennessey		% of Cimarron	100	78	78	65	--
Woods (S)	1	Bu. /A.	114.4	110.8	102.2	108.8	--
Freedom		% of Cimarron	100	97	89	95	--
Woods (O)	1	Bu. /A.	17.8	9.4	9.2	8.3	---
Ashley		% of Cimarron	100	53	52	47	---
21 tests, 10 loc. av.			58.8	53.8	54.1	51.0	53.3 <sup>2/3</sup> /
% of Cimarron			100	91	92	87	79
Test wt. Av.			28.8	29.7	29.0	30.1	26.2

\* (S) - Supervised tests; (O) = Observational tests.

\*\*1/, 2/, etc. = The number of times a variety was grown in a location or area.

/ Bronco averaged 53.3 bushels per acre in 6 tests, compared to 67.5 bushels for Cimarron in the same 6 tests.

## Oats

## Southwest Oklahoma

Table V. - Average Yields for 7 Winter Oat Varieties Grown in the Oklahoma State-wide Small Grain Test Plots; Southwest Oklahoma, 1952-1957.

County Location	No. Yrs. Grown		Cimarron	Forkeddeer	Tennex	Wintok	Mustang	Bronco	Arkwin
Beckham (S)*	2	Bu. /A.	44.0	50.8	36.5	49.7	47.4	58.0	35.3 <sup>1</sup> / <sup>**</sup>
Elk City		% of Cimarron	100	115	83	113	108	132	95
Caddo(S)	6	Bu. /A.	50.2	50.4	51.3	49.0	49.9 <sup>4</sup> / <sub>2</sub>	46.2 <sup>4</sup> / <sub>2</sub>	42.3 <sup>3</sup> / <sub>2</sub>
Hinton		% of Cimarron	100	100	102	98	104	97	94
Grady (S)	5	Bu. /A.	62.1	47.2	46.1	44.5	62.2 <sup>3</sup> / <sub>2</sub>	65.6 <sup>3</sup> / <sub>2</sub>	52.4 <sup>2</sup> / <sub>2</sub>
O. S. U. Cotton Sta.		% of Cimarron	100	76	74	72	101	100	80
Grady (S)	2	Bu. /A.	55.6	54.8	62.6	48.7	55.5	59.7	49.0
O. S. U. Fertility Sta.		% of Cimarron	100	99	113	88	100	107	88
Jackson(S)	5	Bu. /A.	60.1	64.1	65.4	60.4	59.8	82.8 <sup>4</sup> / <sub>2</sub>	67.9 <sup>3</sup> / <sub>2</sub>
O. S. U. Irrigation Sta.		% of Cimarron	100	107	109	100	99	127	97
Kiowa (S)	6	Bu. /A.	32.0	31.3	30.7	29.8	37.4 <sup>5</sup> / <sub>2</sub>	30.4 <sup>5</sup> / <sub>2</sub>	24.4 <sup>4</sup> / <sub>2</sub>
Hobart & Con. #8		% of Cimarron	100	98	96	93	103	84	75
Oklahoma (O)		Bu. /A.	36.2	31.0	40.3	31.5	22.0	31.2	17.2
O. S. U. Farm		% of Cimarron	100	86	111	87	61	86	48
Tillman (O)	2	Bu. /A.	53.0	41.7	38.6	39.7	46.3	55.3 <sup>1</sup> / <sub>2</sub>	29.1
Grandfield		% of Cimarron	100	79	73	75	87	81	55
Washita (S)	4	Bu. /A.	80.1	57.6	66.1	66.1	87.1 <sup>2</sup> / <sub>2</sub>	84.0 <sup>2</sup> / <sub>2</sub>	70.9 <sup>1</sup> / <sub>2</sub>
Rocky		% of Cimarron	100	72	83	83	92	88	93
Washita (O)	2	Bu. /A.	69.1	56.9	58.0	51.6	61.5	65.1 <sup>1</sup> / <sub>2</sub>	55.4
Sentinel		% of Cimarron	100	82	84	75	89	93	80
Washita (O)	1	Bu. /A.	36.4	50.6	38.6	24.2	22.7	---	8.1
Corn		% of Cimarron	100	139	106	66	62	--	22
36 tests, 11 loc. av.			54.1	49.1	49.5	47.1	52.6 <sup>29</sup> / <sub>2</sub>	56.8 <sup>25</sup> / <sub>2</sub>	42.3 <sup>22</sup> / <sub>2</sub>
% of Cimarron			100	91	91	87	97	102	81
Test Wt. Av.			30.8	30.3	29.0	31.0	28.2	29.1	28.7

\*(S) = Supervised tests; (O) = Observation tests.

\*\* 1/, 2/, etc. = The number of times a variety was grown in a location or area.

/ Mustang averaged 52.6 bushels per acre in 29 tests, compared to 54.3 bushels for Cimarron in the same 29 tests.

Bronco averaged 56.8 bushels per acre in 25 tests, compared to 55.7 bushels for Cimarron in the same 25 tests.

Arkwin averaged 42.3 bushels per acre in 22 tests, compared to 52.2 bushels for Cimarron in the same 22 tests.



Oats  
Eastern Oklahoma  
Table VI. - Average Yields for 7 Winter Oat Varieties Grown in the Oklahoma  
State-wide Small Grain Test Plots; Eastern Oklahoma, 1952-1957.

County Location	No. Yrs. Grown		Cimarron	Forkedeer	Tennex	Wintok	Mustang	Arkwin	Bronco
Bryan (O)* Bokchito	1	Bu. / A. % of Forkedeer	28.9 101	28.7 100	29.6 103	27.4 95	--- --	23.3 81	--- --
Craig (S) Welch	2	Bu. / A. % of Forkedeer	71.4 105	68.1 100	65.1 96	59.8 88	73.6 108	59.8 88	32.1 <sup>1/</sup> ** 68
Craig(O) Vinita	1	Bu. / A. % of Forkedeer	94.9 76	125.5 100	112.2 89	86.8 69	97.5 78	81.0 65	---- --
Garvin (S) Stratford	5	Bu./A. % of Forkedeer	76.1 103	73.6 100	72.9 99	66.7 91	80.5 109	72.7 <sup>4/</sup> 106	77.8 <sup>3/</sup> 111
Hughes ( S) Holdenville	5	Bu. / A. % of Forkedeer	54.3 94	57.5 100	54.0 94	47.6 83	47.7 <sup>4/</sup> 94	37.2 <sup>4/</sup> 74	29.3 <sup>3/</sup> 67
Johnston (O) Murray Jr. College	1	Bu. / A. % of Forkedeer	15.1 108	14.0 100	10.3 74	8.8 63	23.7 169	16.9 121	--- --
Mayes (S) Adair	3	Bu. / A. % of Forkedeer	52.6 89	58.9 100	64.1 109	56.0 95	50.3 85	53.0 90	69.3 118
Muskogee (S) Bacone College	6	Bu. / A. % of Forkedeer	58.1 89	65.3 100	63.7 98	62.8 96	68.4 <sup>5/</sup> 104	62.0 <sup>5/</sup> 94	70.7 <sup>4/</sup> 117
Muskogee(O) Connor Jr. College	2	Bu. / A. % of Forkedeer	51.3 98	52.4 100	61.1 117	49.9 95	56.3 107	60.4 115	--- --
Tulsa (O) Liberty	3	Bu. / A. % of Forkedeer	31.2 76	40.9 100	40.3 99	39.6 97	39.8 97	42.5 104	17.8 <sup>1/</sup> 130
Wagoner (S) &(O) Coweta & Broken Arrow	5	Bu. / A. % of Forkedeer	51.5 92	55.9 100	48.5 87	46.6 83	52.7 94	45.8 82	60.3 <sup>3/</sup> 95
34 tests, 11 loc. av. % of Forkedeer Test Wt. Av.			55.7 93 29.2	59.9 100 29.7	58.1 97 28.7	53.1 89 30.0	59.7 <sup>31/</sup> + 94 28.1	52.5 <sup>31/</sup> 91 30.6	57.9 <sup>18/</sup> 103 28.2

\*(S) = Supervised tests; (O) = Observational tests.

\*\* 1/, 2/, etc. = The number of times a variety was grown in a location or area.

/ Mustang averaged 59.7 bushels per acre in 31 tests, compared to 63.2 bushels for Forkedeer in the same 31 tests.

Arkwin averaged 52.5 bushels per acre in 31 tests, compared to 57.8 bushels for Forkedeer in the same 31 tests.

Bronco averaged 57.9 bushels per acre in 18 tests, compared to 56.2 bushels for Forkedeer in the same 18 tests.



Barley  
Eastern Oklahoma  
Table VIII. -Average Yields for 5 Winter Barley Varieties Grown in the Oklahoma  
State-wide Small Grain Test Plots; Eastern Oklahoma, 1953-1957.

County Location	No. Yrs. Grown		Harbine	Rogers	Tenkow	Ward	Cordova
Byran (O) * Bokchito	1	Bu. /A.	24.3	24.5	28.1	24.5	30.0
		% of Harbine	100	101	116	101	123
Craig (S) Welch	1	Bu. /A.	49.0	42.8	52.9	36.5	57.8
		% of Harbine	100	87	108	74	118
Garvin (S) Stratford	4	Bu. /A.	47.4	57.0	37.6	48.0	36.8 <sup>2</sup> / <sup>**</sup>
		% of Harbine	100	120	79	101	63
Hughes (S) Holdenville	5	Bu. /A.	27.7	31.9	28.2	25.0	28.7 <sup>3</sup> / <sub>/</sub>
		% of Harbine	100	115	102	90	115
Mayes (S) Adair	3	Bu. /A.	29.5	38.5	29.2	27.4	29.5 <sup>2</sup> / <sub>/</sub>
		% of Harbine	100	131	99	93	93
Muskogee (S) Bacone College	5	Bu. /A.	35.6	39.8	32.6	36.9	39.3 <sup>3</sup> / <sub>/</sub>
		% of Harbine	100	112	92	104	100
Wagoner (S) Coweta & Broken Arrow	3	Bu. /A.	27.4	31.8	24.8	25.1	41.0 <sup>2</sup> / <sub>/</sub>
		% of Harbine	100	116	91	92	118
22 tests, 7 loc. av.			34.1	39.3	31.7	32.7	36.2 <sup>14</sup> / <sub>/</sub>
% of Harbine			100	115	93	96	98
Test Wt. Av.			43.5	46.2	43.2	43.0	42.4

\* (S) = Supervised tests; (O) = Observational tests.

\*\* 1/, 2 /, etc. = The number of times a variety was grown in a location or area.

/ Cordova averaged 36.2 bushels per acre in 14 tests, compared to 36.9 bushels for Harbine in the same 14 tests.