



RESULTS OF THE

*Kentucky Small Grain
Variety Trials-1968*

By C. R. Tutt, V. C. Finkner and R. H. Loe

UNIVERSITY OF KENTUCKY • AGRICULTURAL EXPERIMENT STATION

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Testing Locations Of
The Kentucky Small Grain Variety Trials



<u>Location</u>	<u>Cooperator</u>
1. Murray	Murray State University Agriculture Department
2. Princeton	West Kentucky Substation
3. Bowling Green	Western Kentucky University Agriculture Department
4. Lexington	Kentucky Agricultural Experiment Station

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RESULTS OF THE KENTUCKY SMALL GRAIN
VARIETY TRIALS IN 1968

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The purpose of the Kentucky small grain variety trials is to evaluate varieties of wheat, oats and barley which are commercially available or may soon be available to Kentucky farmers. New varieties are continuously being developed by the Kentucky Agricultural Experiment Station and other state experiment stations and commercial firms. New varieties that appear to have desirable characteristics are evaluated so farmers and agricultural workers may have the information to make an intelligent choice of varieties that best suit their needs.

The average acre yield of small grains in Kentucky in 1968 was wheat, 30 bushels; oats, 40 bushels and barley, 41 bushels per acre. These yields gave a production of 6.2 million bushels of wheat, 0.9 million bushels of oats, and 1.5 million bushels of barley.

The acreage devoted to small grain in Kentucky has been steadily decreasing for the last 20 years. However, yields per acre have been sharply increasing and high-yielding new varieties now deserve more careful consideration in cropping programs. The continued improvement of small grain and new cropping practices such as double cropping should result in small grain playing an increasingly important role in Kentucky agriculture.

EXPERIMENTAL METHODS

In 1968, the wheat, oat and barley variety trials were grown at four locations in the state; Murray, Princeton, Bowling Green, and Lexington. The response of a variety in one area of the state may be quite different from that in another owing to different environmental conditions, soil types and cultural practices. Because of this variability, trials are grown in different areas so that results may be obtained for local conditions.

Data are also collected for a period of years at each location since results vary from year to year. Two- and three-year results give a more accurate picture of performance than do annual data.

The experimental areas at Lexington and Princeton received no fertilizer treatments, and those at Murray and Bowling Green received a broadcast application of a complete fertilizer in the spring before plots were seeded in the fall. All areas were fallowed the previous year, and a green manure legume crop was turned under prior to the fall seeding.

The experimental plots consisted of 4 rows 1 foot apart and 13 feet long. Each variety was grown in four plots placed at random over the test area and the results given in the tables are the average response of the four plots. The plots were planted with a special built four-row seeder, and the data were taken from the two center rows of each plot.

Yield

Yields are taken by cutting 10 feet of the two center rows and threshing the grain through a stationary thresher. The weights of each plot were then converted to bushels per acre.

Lodged

Lodging is reported as the percentage of the total plants that are on the ground or are leaning at a 45-degree angle from the vertical. Lodging is reported when the grain is mature. The term "maturity" as used in this report refers to the date the grain is ready to be harvested.

Plant Height

Plant height is recorded as the number of inches from the ground to the tip of the grain head.

Date Headed

Date headed is reported as the number of days after March 31, at which 50 percent of the heads have emerged from the plants in each plot.

Survival

Survival is recorded as the percentage of plants which are estimated to have survived the winter when fall planted. This is a measure of winterhardiness and is an important factor to consider when selecting a small grain variety.

Test Weight

Test weight, or the weight of a bushel of grain, is a measure of the quality of grain. The higher the test weight the higher the quality and the higher the market value unless the grain has been downgraded because of another quality factor.

INTERPRETATION

In interpreting the results it is important to consider characteristics other than yield before choosing a variety. Factors such as height of straw, lodging resistance, earliness or lateness of maturity and grain quality should be weighted.

Small differences in yield of only a few bushels per acre between two varieties from an individual test should not be interpreted to indicate the superiority of one variety over another. However, if one variety is consistently outyielding another over a period of several years the chances are that the differences are real and should be considered important.

Lodging data are quite difficult to interpret. A high-yielding variety should not necessarily be down-graded because of a high percentage of lodging at a location. Local weather conditions, such as heavy winds and rains, may cause a variety to lodge much worse than it normally does. It should also be emphasized that a variety reported to be lodged 50 percent does not infer that only 50 percent of the grain can be harvested. With good equipment it may be expected that almost all of the grain could be saved. Lodging data for a period of years should receive more consideration than annual lodging data.

The ultimate test for any variety is how it performs on the individual farm. Therefore, to make a sound decision, it is wise to plant a few acres of a new variety and, thus, compare it with those presently used.

Kentucky Agricultural Experiment Station 1968-69 Recommended Small Grain Varieties

Barley

Barsoy	Harrison
Dayton	Jefferson

Wheat

Arthur	Blueboy	Monon
Ben Hur	Knox 62	Redcoat

Winter Oats

Compact	Norline
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Spring Oats

Brave

Certified Seed: Certified seed is seed which has been grown in such a way as to insure the genetic identity and purity of a variety. Certified seed also helps to maintain freedom from weed and other crop seed and, in some cases, freedom from diseases. The Experiment Station recommends that Kentucky certified seed be used whenever possible for growing commercial crops of small grains.

Table 1. Two-Year State Average Yields for Wheat, Barley and Oats in 1967-68.

Wheat		Barley		Oats	
Variety	Yield, Bu/A	Variety	Yield, Bu/A	Variety	Yield, Bu/A
Arthur	39.2	Barsoy	49.7	Compact	61.1
Benhur	31.2	Besbar	41.1	Norline	62.0
Blueboy	45.6	Dayton	40.7	Ky. 64-9504	62.6
Clarkan	23.8	Harrison	56.1		
Dual	29.7	Jefferson	42.5	Average	61.9
Fulton	28.0	Kenbar	40.0		
Knox	28.7	Pennrad	41.8		
Knox 62	29.0	Rogers	42.1		
Lewis	31.3	Will	47.9		
Monon	28.5	Ky 63-686	44.4		
Redcoat	33.6	N. Y. 5619B-3B-1	52.9		
Riley	28.8				
Riley 67	31.6	Average	45.4		
Stadler	30.1				
Triumph	32.1				
Trumbull	20.4				
Vermillion	28.4				
Vigo	27.6				
Average	30.4				

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Table 2. Annual State Average Yields for Wheat, Barley and Oats in 1968.

Wheat		Barley		Oats	
Variety	Yield, Bu/A	Variety	Yield, Bu/A	Variety	Yield, Bu/A
Arthur	43.9	Barsoy	61.5	Compact	59.4
Benhur	37.0	Besbar	45.4	Norline	68.2
Blueboy	54.6	Dayton	52.7	Ky 64-9504	64.8
Clarkan	24.9	Harrison	57.9		
Dual	31.3	Jefferson	49.6	Average	64.1
Fulton	28.7	Kenbar	49.7		
Knox	32.7	Kentucky 1	38.8		
Knox 62	31.7	Lakeland	62.3		
Lewis	35.5	Pennrad	47.6		
Monon	35.9	Rogers	41.5		
Redcoat	38.4	Will	54.7		
Riley	33.8	Ky 63-686	56.1		
Riley 67	36.6	N. Y. 5619B-3B-1	60.5		
Stadler	34.3				
Triumph	33.1	Average	52.2		
Trumbull	20.0				
Vermillion	32.7				
Vigo	29.7				
Average	34.2				

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Table 3. Two-Year Summary of Barley Varieties Evaluated at Lexington in 1967-68.

Varieties	Yield, Bu/A	Height at Maturity, Inches	Date Headed, No. Days After March 31	Test Wt., Lbs/Bu
Barsoy	57.9	34.3	22.3	49.1
Besbar	45.9	43.4	33.4	43.0
Dayton	40.7	38.8	27.8	43.7
Harrison	72.0	40.7	31.7	50.1
Jefferson	41.5	43.2	32.5	45.5
Kenbar	47.6	37.9	28.9	46.6
Pennrad	41.3	42.9	32.9	46.0
Rogers	60.1	38.8	36.7	47.7
Will	67.4	39.2	33.0	47.7
Ky 63-686	44.1	36.5	26.7	45.6
NY5619B-3B-1	82.9	36.6	39.6	43.4
Average	54.7	39.3	31.4	46.2

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Table 4. Two-Year Summary of Barley Varieties Evaluated at Princeton in 1967-68.

Varieties	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Date Headed, No. Days After March 31	Survival, %	Test Wt., Lbs/Bu
Barsoy	41.9	21.3	29.2	19.5	100.0	44.9
Besbar	30.0	74.4	35.9	31.5	100.0	36.5
Dayton	30.3	80.0	34.3	25.1	100.0	36.1
Harrison	48.9	31.3	35.9	29.6	100.0	46.8
Jefferson	39.9	35.0	36.6	29.5	100.0	40.6
Kenbar	32.8	82.5	33.6	25.9	100.0	42.1
Pennrad	33.0	85.0	36.8	29.7	100.0	38.3
Rogers	32.5	80.7	34.5	33.7	100.0	41.6
Will	36.1	63.8	34.3	30.1	100.0	40.3
Ky 63-686	36.2	44.4	31.3	24.0	100.0	39.4
NY5619B-3B-1	39.6	38.8	30.5	35.9	100.0	37.6
Average	36.5	57.9	33.9	28.6	100.0	40.4

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Table 5. Two-Year Summary of Barley Varieties Evaluated at Murray in 1967-68.

Varieties	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Date Headed, No. Days After March 31	Survival, %	Test Wt., Lbs/Bu
Barsoy	61.1	0.0	31.7	12.3	100.0	48.8
Besbar	53.5	8.8	41.9	26.3	100.0	42.3
Dayton	52.4	19.4	37.7	19.2	100.0	46.0
Harrison	63.9	0.0	39.7	23.9	100.0	48.3
Jefferson	52.5	0.0	39.7	24.3	100.0	44.9
Kenbar	45.5	33.2	36.7	20.0	100.0	44.6
Pennrad	56.9	15.0	39.9	24.8	100.0	44.9
Rogers	38.9	47.5	37.9	27.4	100.0	44.9
Will	51.1	58.2	37.3	25.7	100.0	47.6
Ky 63-686	57.3	2.5	33.9	20.3	100.0	43.6
NY5619B-3B-1	57.8	0.0	33.7	29.9	100.0	44.7
Average	53.7	16.8	37.3	23.1	100.0	45.5

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Table 6. Two-Year Summary of Barley Varieties Evaluated at Bowling Green in 1967-68.

Varieties	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Date Headed, No. Days After March 31	Survival, %	Test Wt., Lbs/Bu
Barsoy	37.7	0.0	28.2	No Heading Notes Taken	100.0	47.1
Besbar	34.8	34.4	37.9		100.0	39.9
Dayton	39.5	57.5	32.4		100.0	36.1
Harrison	39.6	11.9	33.6		100.0	42.1
Jefferson	36.2	0.0	34.4		100.0	43.3
Kenbar	34.2	27.5	30.0		100.0	44.7
Pennrad	35.8	10.0	36.1		100.0	42.3
Rogers	37.0	16.3	34.5		100.0	46.7
Will	37.0	18.8	33.5		100.0	46.0
Ky 63-686	40.0	20.0	30.3		100.0	41.3
NY 5619B-3B-1	31.4	25.0	28.4		100.0	41.9
Average	36.7	20.1	32.7		100.0	42.9

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Table 5. Two-Year Summary of Barley Varieties Evaluated at Murray in 1967-68.

Varieties	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Date Headed, No. Days After March 31	Survival, %	Test Wt., Lbs/Bu
Barsoy	61.1	0.0	31.7	12.3	100.0	48.8
Besbar	53.5	8.8	41.9	26.3	100.0	42.3
Dayton	52.4	19.4	37.7	19.2	100.0	46.0
Harrison	63.9	0.0	39.7	23.9	100.0	48.3
Jefferson	52.5	0.0	39.7	24.3	100.0	44.9
Kenbar	45.5	33.2	36.7	20.0	100.0	44.6
Pennrad	56.9	15.0	39.9	24.8	100.0	44.9
Rogers	38.9	47.5	37.9	27.4	100.0	44.9
Will	51.1	58.2	37.3	25.7	100.0	47.6
Ky 63-686	57.3	2.5	33.9	20.3	100.0	43.6
NY5619B-3B-1	57.8	0.0	33.7	29.9	100.0	44.7
Average	53.7	16.8	37.3	23.1	100.0	45.5

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Table 6. Two-Year Summary of Barley Varieties Evaluated at Bowling Green in 1967-68.

Varieties	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Date Headed, No. Days After March 31	Survival, %	Test Wt., Lbs/Bu
Barsoy	37.7	0.0	28.2	No Heading Notes Taken	100.0	47.1
Besbar	34.8	34.4	37.9		100.0	39.9
Dayton	39.5	57.5	32.4		100.0	36.1
Harrison	39.6	11.9	33.6		100.0	42.1
Jefferson	36.2	0.0	34.4		100.0	43.3
Kenbar	34.2	27.5	30.0		100.0	44.7
Pennrad	35.8	10.0	36.1		100.0	42.3
Rogers	37.0	16.3	34.5		100.0	46.7
Will	37.0	18.8	33.5		100.0	46.0
Ky 63-686	40.0	20.0	30.3		100.0	41.3
NY 5619B-3B-1	31.4	25.0	28.4		100.0	41.9
Average	36.7	20.1	32.7		100.0	42.9

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NOT APPROVED

Table 7. Two-Year Summary of Wheat Varieties Evaluated at Lexington in 1967-68.

Varieties	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Date Headed, No. Days After March 31	Test Wt., Lbs/Bu
Arthur	39.7	35.0	43.5	37.9	59.9
Benhur	29.6	16.3	39.8	35.7	60.3
Blueboy	56.4	2.5	38.8	39.9	55.4
Clarkan	23.6	43.8	51.3	48.7	57.8
Dual	26.7	31.3	47.4	48.7	58.4
Fulton	25.9	40.0	46.9	48.1	56.3
Knox	27.2	42.5	41.7	35.4	59.4
Knox 62	29.6	45.0	44.2	35.5	60.0
Lewis	35.0	25.0	41.3	36.5	59.2
Monon	28.8	33.8	41.2	34.9	59.9
Redcoat	28.6	30.0	45.4	46.4	58.3
Riley	31.9	20.0	42.2	39.8	59.9
Riley 67	31.9	33.8	43.6	38.8	59.6
Stadler	30.7	23.8	45.1	37.9	60.4
Triumph	33.3	45.0	41.4	35.2	59.8
Trumbull	22.2	43.8	49.2	49.0	57.4
Vermillion	28.0	27.5	45.2	37.6	60.0
Vigo	24.3	45.0	49.1	47.2	57.2
Average	30.7	32.5	44.3	40.7	58.8

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Table 8. Two-Year Summary of Wheat Varieties Evaluated at Princeton in 1967-68.

Varieties	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Date Headed, No. Days After March 31	Survival, %	Test Wt., Lbs/Bu
Arthur	43.0	35.7	37.7	32.1	100.0	57.8
Benhur	35.4	38.2	39.2	31.2	100.0	56.6
Blueboy	46.2	14.4	38.3	34.9	100.0	52.1
Clarkan	27.9	45.0	47.4	41.8	100.0	55.1
Dual	35.4	33.8	44.8	42.6	100.0	56.6
Fulton	34.1	31.3	45.4	42.2	100.0	55.5
Knox	33.0	51.9	41.7	30.7	100.0	57.6
Knox 62	33.1	43.8	41.9	30.5	100.0	57.0
Lewis	33.3	37.5	38.2	31.9	100.0	56.3
Monon	29.7	39.4	39.8	31.5	100.0	55.7
Redcoat	43.0	13.2	45.0	40.8	100.0	56.3
Riley	32.5	37.5	39.9	34.2	100.0	55.9
Riley 67	33.5	42.5	39.9	34.0	100.0	55.7
Stadler	33.4	38.2	40.9	32.3	100.0	56.7
Triumph	31.6	58.8	38.6	30.3	100.0	56.8
Trumbull	23.9	40.0	45.4	43.0	100.0	54.7
Vermillion	32.3	43.8	42.3	33.6	100.0	56.8
Vigo	34.8	42.5	47.6	43.7	100.0	56.0
Average	34.2	38.2	41.9	35.6	100.0	56.1

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Table 9. Two-Year Summary of Wheat Varieties Evaluated at Bowling Green in 1967-68.

Varieties	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Date Headed, No. Days After March 31	Survival, %	Test Wt., Lbs/Bu
Arthur	34.9	1.3	33.5	No Heading Notes Taken	100.0	58.2
Benhur	28.7	8.8	35.7		100.0	56.9
Blueboy	34.2	0.7	35.6		100.0	54.0
Clarkan	19.9	21.9	45.4		100.0	53.3
Dual	27.1	0.0	42.5		100.0	54.4
Fulton	24.1	16.3	45.1		100.0	54.7
Knox	25.9	25.7	41.4		100.0	57.7
Knox 62	24.2	46.3	38.2		100.0	57.6
Lewis	25.5	22.5	36.0		100.0	52.9
Monon	26.9	10.0	37.8		100.0	55.3
Redcoat	29.3	1.3	42.0		100.0	54.9
Riley	21.9	50.0	38.7		100.0	54.3
Riley 67	29.5	28.2	37.5		100.0	56.1
Stadler	26.3	33.8	40.4		100.0	56.2
Triumph	31.5	28.2	37.7		100.0	58.1
Trumbull	15.1	17.5	42.2		100.0	53.3
Vermillion	25.0	26.3	42.1		100.0	56.6
Vigo	23.8	11.3	46.6		100.0	53.0
Average	26.3	19.5	39.9		100.0	55.4

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Table 10. Two-Year Summary of Winter Oat Varieties Evaluated at Lexington in 1967-68.

Varieties	Yield, Bu/A	Ht., In.	Date Headed, No. Days After March 31	Survival, %	Test Wt., Lbs/Bu
Compact	73.0	31.4	54.2	77.5	37.1
Norline	73.7	46.2	49.3	75.1	36.6
Ky 64-9504	72.1	37.3	60.4	78.2	33.5
Average	72.9	38.3	54.6	76.9	35.7

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Table 11. Two-Year Summary of Winter Oat Varieties Evaluated at Princeton in 1967-68.

Varieties	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Date Headed, No. Days After March 31	Survival, %	Test Wt., Lbs/Bu
Compact	67.5	46.3	35.0	44.8	91.3	37.0
Norline	58.3	83.2	43.0	44.3	87.5	35.1
Ky 64-9504	61.8	40.7	39.9	51.7	93.8	34.1
Average	62.5	56.7	39.3	46.9	90.9	35.4

Table 12. Two-Year Summary of Winter Oat Varieties Evaluated at Murray in 1967-68.

Varieties	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Date Headed, No. Days After March 31	Survival, %	Test Wt., Lbs/Bu
Compact	64.5	55.7	32.8	39.4	98.8	33.8
Norline	64.2	86.3	40.8	37.4	98.8	32.2
Ky 64-9504	72.9	46.9	41.8	47.8	98.8	32.6
Average	67.2	63.0	38.5	41.5	98.8	32.9

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Table 13. Two-Year Summary of Winter Oat Varieties Evaluated at Bowling Green in 1967-68.

Varieties	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Survival, %	Test Wt., Lbs/Bu
Compact	39.4	51.3	31.5	100.0	35.2
Norline	51.6	89.4	37.8	100.0	33.2
Ky 64-9504	43.5	65.0	35.7	100.0	32.3
Average	44.8	68.6	35.0	100.0	33.6

Table 14. Annual Summary of Barley Varieties Evaluated at Lexington in 1968.

Variety	Yield, Bu/A	Ht., In.	Date Headed, No. Days After March 31	Survival, %	Test Wt., Lbs/Bu
Barsoy	66.7	35.0	27.5	100.0	49.5
Besbar	57.6	48.0	35.3	100.0	43.2
Dayton	55.6	40.3	31.8	92.5	46.6
Harrison	64.4	40.3	32.5	100.0	50.2
Jefferson	48.1	43.0	33.0	100.0	46.3
Kenbar	70.0	40.3	31.5	100.0	48.7
Kentucky 1	51.4	47.5	39.0	100.0	47.7
Lakeland	80.6	41.0	36.0	100.0	49.3
Pennrad	52.9	46.0	34.0	100.0	46.9
Rogers	49.3	39.3	37.8	88.8	48.3
Will	69.6	41.3	35.0	100.0	49.0
Ky 63-686	66.3	38.0	31.5	95.0	45.8
NY 5619B-3B-1	86.7	37.3	39.3	100.0	49.2
Average	63.0	41.3	34.2	98.2	47.7

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Table 15. Annual Summary of Barley Varieties Evaluated at Princeton in 1968.

Variety	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Date Headed, No. Days After March 31	Survival, %	Test Wt., Lbs/Bu
Barsoy	58.8	25.0	35.5	23.5	100.0	49.4
Besbar	31.6	86.3	42.8	34.0	100.0	38.0
Dayton	43.8	97.5	43.0	27.8	100.0	40.1
Harrison	51.6	50.0	43.3	32.3	100.0	48.6
Jefferson	42.4	65.0	45.3	32.5	100.0	40.2
Kenbar	37.3	97.5	41.3	29.5	100.0	46.1
Kentucky 1	33.3	98.8	42.8	34.8	100.0	44.1
Lakeland	52.7	45.0	42.5	35.0	100.0	45.8
Pennrad	35.6	87.5	43.3	33.5	100.0	40.1
Rogers	33.7	86.3	39.5	35.3	100.0	42.6
Will	46.0	80.0	41.0	32.8	100.0	43.4
Ky 63-686	48.0	41.3	38.0	28.0	100.0	44.1
NY 5619B-3B-1	54.8	52.5	37.5	36.3	100.0	41.5
Average	43.8	70.2	41.2	31.9	100.0	43.4

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Table 16. Annual Summary of Barley Varieties Evaluated at Murray in 1968.

Variety	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Date Headed, No. Days After March 31	Survival, %	Test Wt., Lbs/Bu
Barsoy	51.8	0.0	33.0	18.0	100.0	50.1
Besbar	47.9	15.0	44.0	28.8	100.0	43.1
Dayton	51.9	3.8	42.0	22.5	100.0	44.1
Harrison	62.9	0.0	42.5	27.0	100.0	50.1
Jefferson	52.9	0.0	42.3	26.5	100.0	46.5
Kenbar	45.5	20.0	38.5	23.5	100.0	46.3
Kentucky 1	31.4	27.5	46.3	30.8	100.0	51.1
Lakeland	53.8	0.0	36.3	28.5	100.0	49.6
Pennrad	54.2	0.0	42.3	27.0	100.0	46.7
Rogers	37.8	12.5	38.5	30.8	100.0	48.6
Will	49.5	23.8	37.3	28.5	100.0	49.1
Ky 63-686	49.0	0.0	35.8	23.8	100.0	44.0
NY 5619B-3B-1	54.0	0.0	34.3	31.8	100.0	46.6
Average	49.4	7.9	39.5	26.7	100.0	47.3

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Table 17. Annual Summary of Barley Varieties Evaluated at Bowling Green in 1968.

Variety	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Survival, %	Test Wt., Lbs/Bu
Barsoy	68.5	0.0	37.0	100.0	50.3
Besbar	44.6	68.8	45.0	100.0	39.9
Dayton	59.5	90.0	39.5	100.0	41.5
Harrison	52.8	23.8	39.8	100.0	48.7
Jefferson	55.0	0.0	43.3	100.0	45.1
Kenbar	45.9	55.0	36.5	100.0	46.3
Kentucky 1	39.1	97.5	42.8	100.0	45.6
Lakeland	62.0	0.0	39.8	100.0	49.9
Penrad	47.6	20.0	43.3	100.0	44.0
Rogers	45.3	32.5	39.0	100.0	47.2
Will	53.7	37.5	42.5	100.0	46.6
Ky 63-686	61.1	40.0	38.5	100.0	44.1
NY 5619B-3B-1	46.3	50.0	34.8	100.0	43.4
Average	52.4	39.6	40.1	100.0	45.6

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Table 18. Annual Summary of Wheat Varieties Evaluated at Lexington in 1968.

Variety	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Date Headed, No. Days After March 31	Survival, %	Test Wt., Lbs/Bu
Arthur	53.0	70.0	48.0	40.0	100.0	59.4
Benhur	40.0	32.5	47.5	39.0	100.0	60.0
Blueboy	81.5	5.0	44.0	42.5	100.0	56.2
Clarkan	26.9	87.5	50.5	48.8	100.0	55.0
Dual	28.0	62.5	51.8	48.5	100.0	56.9
Fulton	26.1	80.0	51.8	47.8	100.0	53.2
Knox	33.2	85.0	47.3	39.5	100.0	58.3
Knox 62	33.5	90.0	48.3	40.0	100.0	59.0
Lewis	40.5	50.0	46.8	40.0	100.0	59.2
Monon	38.7	67.5	48.0	39.0	100.0	59.6
Redcoat	32.6	60.0	52.0	46.3	100.0	57.1
Riley	44.5	40.0	47.8	42.0	100.0	59.3
Riley 67	41.3	67.5	48.8	42.3	100.0	58.8
Stadler	40.4	47.5	50.8	41.5	100.0	61.2
Triumph	41.1	90.0	47.8	39.0	100.0	58.9
Trumbull	26.1	87.5	50.8	49.0	100.0	55.0
Vermillion	33.0	55.0	52.0	41.8	100.0	60.5
Vigo	27.7	90.0	54.8	49.0	100.0	55.1
Average	38.2	64.9	49.4	43.1	100.0	57.9

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Table 19. Annual Summary of Wheat Varieties Evaluated at Princeton in 1968.

Variety	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Date Headed, No. Days After March 31	Survival, %	Test Wt., Lbs/Bu
Arthur	37.0	71.3	43.5	37.3	100.0	57.8
Benhur	34.3	76.3	43.8	36.5	100.0	57.1
Blueboy	44.7	28.8	41.8	42.0	100.0	49.5
Clarkan	23.5	90.0	48.3	42.5	100.0	55.0
Dual	34.2	67.5	46.3	44.3	100.0	56.0
Fulton	28.7	62.5	47.5	44.3	100.0	55.5
Knox	29.3	88.8	44.0	36.0	100.0	57.6
Knox 62	28.9	70.0	45.8	35.5	100.0	57.3
Lewis	32.4	75.0	42.3	37.3	100.0	56.3
Logan	45.8	30.0	44.3	43.8	100.0	57.4
Monon	27.7	73.8	43.0	36.5	100.0	55.4
Redcoat	43.9	26.3	47.5	43.5	100.0	57.1
Riley	29.8	75.0	43.3	41.5	100.0	55.2
Riley 67	32.8	82.5	44.0	41.5	100.0	55.2
Stadler	34.9	71.3	45.5	39.0	100.0	57.0
Timwin	39.1	71.3	37.8	41.8	100.0	53.9
Triumph	26.3	72.5	41.3	35.0	100.0	57.1
Trumbull	20.7	80.0	47.3	45.5	100.0	54.2
Vermillion	31.1	87.5	46.0	39.8	100.0	56.6
Vigo	32.3	85.0	49.3	46.8	100.0	54.9
Average	32.9	69.3	44.6	40.5	100.0	55.8

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Table 20. Annual Summary of Wheat Varieties Evaluated at Murray in 1968.

Variety	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Date Headed, No. Days After March 31	Survival, %	Test Wt., Lbs/Bu
Arthur	41.1	0.0	40.3	32.0	100.0	59.6
Benhur	37.1	1.3	44.5	32.0	100.0	60.0
Blueboy	44.6	0.0	38.5	33.0	100.0	56.0
Clarkan	20.3	55.0	51.3	39.3	100.0	56.3
Dual	25.8	31.3	49.0	43.0	100.0	55.3
Fulton	28.9	28.8	51.5	41.8	100.0	58.2
Knox	31.4	50.0	48.8	32.0	100.0	59.4
Knox 62	30.6	45.0	47.0	32.0	100.0	60.5
Lewis	33.1	12.5	45.0	32.5	100.0	58.8
Logan	37.1	23.8	45.3	40.8	100.0	58.5
Monon	37.0	12.5	45.3	32.0	100.0	59.1
Redcoat	43.1	0.0	49.8	40.5	100.0	59.6
Riley	26.1	35.0	45.0	34.5	100.0	57.8
Riley 67	33.0	37.5	45.5	34.0	100.0	58.4
Stadler	31.0	10.0	48.3	33.5	100.0	59.9
Timwin	33.4	30.0	37.0	37.3	100.0	56.0
Triumph	31.8	30.0	42.8	32.0	100.0	60.1
Trumbull	13.8	66.3	48.0	41.3	100.0	53.4
Vermillion	32.8	20.0	50.0	33.5	100.0	59.0
Vigo	26.2	38.8	50.3	42.5	100.0	55.1
Average	31.9	26.4	46.2	36.0	100.0	58.1

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Table 21. Annual Summary of Wheat Varieties Evaluated at Bowling Green in 1968.

Variety	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Survival, %	Test Wt., Lbs/Bu
Arthur	44.4	0.0	40.5	100.0	59.8
Benhur	36.5	12.5	40.0	100.0	58.5
Blueboy	47.7	1.3	41.3	100.0	52.7
Clarkan	28.8	26.3	55.0	100.0	56.0
Dual	37.2	0.0	49.5	100.0	57.4
Fulton	31.2	32.5	53.3	100.0	56.0
Knox	36.7	21.3	49.3	100.0	59.8
Knox 62	33.9	47.5	43.3	100.0	59.8
Lewis	36.1	35.0	42.5	100.0	56.6
Logan	50.0	0.0	48.0	100.0	58.4
Monon	40.3	0.0	42.5	100.0	58.6
Redcoat	34.0	2.5	48.0	100.0	57.5
Riley	34.7	20.0	45.3	100.0	58.0
Riley 67	39.2	56.3	43.5	100.0	56.9
Stadler	30.7	45.0	47.8	100.0	57.1
Timwin	38.7	23.8	39.0	100.0	54.6
Triumph	33.0	46.3	42.5	100.0	59.3
Trumbull	19.5	30.0	48.0	100.0	55.1
Vermillion	34.0	17.5	50.3	100.0	59.2
Vigo	32.4	15.0	54.3	100.0	54.8
Average	36.0	21.6	46.2	100.0	57.3

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Table 22. Annual Summary of Winter Oat Varieties Evaluated at Lexington in 1968.

Variety	Yield, Bu/A	Ht., In.	Date Headed, No. Days After March 31	Survival, %	Test Wt., Lbs/Bu
Compact	46.2	27.5	58.8	60.0	35.7
Norline	65.4	42.0	48.8	68.8	37.8
Ky 64-9504	61.5	34.8	61.3	63.8	35.6
Average	57.7	34.8	56.3	64.2	36.4

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Table 23. Annual Summary of Winter Oat Varieties Evaluated at Princeton in 1968.

Variety	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Date Headed, No. Days After March 31	Survival, %	Test Wt., Lbs/Bu
Compact	65.5	70.0	39.5	50.0	100.0	36.7
Norline	62.0	88.8	46.0	48.8	100.0	33.8
Ky 64-9504	59.5	51.3	45.5	55.5	100.0	32.3
Average	62.3	70.0	43.7	51.4	100.0	34.3

Table 24. Annual Summary of Winter Oat Varieties Evaluated at Murray in 1968.

Variety	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Date Headed, No. Days After March 31	Survival, %	Test Wt., Lbs/Bu
Compact	77.2	96.3	35.0	42.5	100.0	36.8
Norline	82.2	97.5	45.0	40.0	100.0	34.8
Ky 64-9504	74.9	91.3	42.8	47.8	100.0	33.1
Average	78.1	95.0	40.9	43.4	100.0	34.9

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Table 25. Annual Summary of Winter Oat Varieties Evaluated at Bowling Green in 1968.

Variety	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Survival, %	Test Wt., Lbs/Bu
Compact	48.5	98.8	38.0	100.0	34.8
Norline	63.3	98.8	43.0	100.0	33.6
Ky 64-9504	63.4	87.5	42.5	100.0	32.7
Average	58.4	95.0	41.2	100.0	33.7

Table 26. Annual Summary of Spring Oat Varieties Evaluated at Lexington in 1968.

Variety	Yield, Bu/A	Lodged At Maturity, %	Ht., In.	Date Headed, No. Days After March 31	Test Wt., Lbs/Bu
Andrew	87.3	45.0	38.3	69.5	31.3
Brave	88.1	62.5	39.0	69.0	35.4
Clintford	75.3	25.0	35.3	69.0	35.9
Clintland 64	62.8	62.5	38.3	70.5	31.8
Iowa E68	68.7	60.0	37.5	65.0	34.4
Iowa E69	66.4	77.5	37.5	65.5	34.6
Jaycee	74.8	82.5	35.5	67.8	35.1
Nodaway	62.4	62.5	40.0	67.0	33.7
Tyler	78.1	12.5	34.8	69.0	33.8
Average	73.8	54.4	37.4	68.0	34.0

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