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1974 PRELIMINARY REPORT OF KENTUCKY SMALL GRAIN VARIETY TRIALS AT BOWLING GREEN AND LEXINGTON

By

Charles R. Tutt, Morris J. Bitzer, and Verne C. Finkner

Each year the small grain variety trials are conducted at Princeton, Murray, Bowling Green and Lexington. In 1974, the plots at Princeton and Murray were severely infected with a complex of diseases including Barley Yellow Dwarf, Septoria glume blotch, wheat scab and an unidentified disease in the wheat. As a result of the intensity of these diseases, the data obtained from these plots was very erratic and the results were not considered to be experimentally valid. The data obtained at Bowling Green and Lexington were quite valid and representative of the general situation in Kentucky.

BOWLING GREEN

Recommended Varieties	WHEAT VARIETIES		Test Wt	
	Yield		Lbs/Bu	
	1973	1974	1973	1974
Abe	46.3	38.5	56.4	53.7
Arthur	37.0	37.2	56.5	55.8
Arthur 71	45.4	31.5	57.0	56.2
McNair 4823	34.7	37.1	54.5	54.6

Other Varieties

Benhur	37.3	28.7	56.0	55.5
Blueboy	31.8	26.8	50.7	48.2
Blueboy II	43.6	30.7	53.0	44.6
Coker 68-15	33.3	31.9	58.0	54.2
Frederick	37.4	29.3	55.2	52.3
Knox 62	32.2	24.6	56.1	55.5
Lewis	36.4	30.0	54.9	53.7
McNair 701	37.3	25.4	53.9	44.5
McNair 1587	29.7	21.0	52.4	48.8
Monon	31.3	23.7	53.2	52.7
Oasis	43.5	35.9	57.5	55.7

BARLEY VARIETIES

Recommended Varieties	Yield		Test Wt.	
	Bu/A		Lbs/Bu	
	1973	1974	1973	1974
Barsoy	52.4	20.4	46.2	37.7
Harrison	50.4	36.5	47.1	37.5
Knob	40.6	28.1	42.1	38.0

Other Varieties

Dayton	34.3	21.2	38.2	32.8
Jefferson	64.5	34.9	44.4	37.2
Keowee	39.0	16.9	43.1	36.9
Lakeland	34.2	16.5	41.7	32.2
McNair 601	48.0	25.1	43.1	37.6
Paoli	52.3	30.5	45.3	37.0
Schuyler	44.4	16.3	40.6	28.4

OAT VARIETIES

Recommended Varieties	Yield		Test Wt.	
	Bu/A		Lbs/Bu	
	1973	1974	1973	1974
Coker 66-22		40.5		30.9
Compact		48.4		30.1
Dubois		22.1		29.2
Norline		34.7		31.6
Walken		38.8		28.7

Other Varieties

Chilocco		36.5		31.0
Pennlan		39.2		32.9

Agricultural and Home Economics Extension Service of the University of Kentucky, the United States Department of Agriculture, cooperating. Charles E. Barnhart, Director. Issued in furtherance of the Acts of May 8 and June 30, 1914.

LEXINGTON

WHEAT VARIETIES

<u>Recommended Varieties</u>	<u>Yield Bu/A</u>		<u>Test Wt. Lbs/Bu</u>	
	1973	1974	1973	1974*
Abe	57.2	46.8	58.3	57.2
Arthur	49.5	49.1	57.9	56.5
Arthur 71	52.0	38.7	58.5	55.8
McNair 4823	42.7	52.5	53.2	59.8
<u>Other Varieties</u>				
Benhur	33.3	44.2	53.1	55.6
Blueboy	45.6	41.0	53.8	--
Blueboy II	38.9	34.5	51.5	54.5
Coker 68-15	37.5	40.0	56.1	57.8
Frederick	36.9	53.2	54.5	58.2
Knox 62	27.1	43.5	57.6	57.3
Lewis	27.6	47.0	50.8	55.6
McNair 701	43.6	30.8	54.2	52.3
McNair 1587	45.2	34.0	52.8	--
Monon	34.1	42.7	54.3	55.6
Oasis	39.4	45.6	56.6	56.5

BARLEY VARIETIES

<u>Recommended Varieties</u>	<u>Yield Bu/A</u>		<u>Test Wt. Lbs/Bu</u>	
	1973	1974	1973	1974
Barsoy	55.5	45.2		43.2
Harrison	56.2	42.2		44.5
Knob	46.8	33.3		42.7
<u>Other Varieties</u>				
Dayton	46.0	43.4		40.5
Jefferson	47.7	42.6		41.6
Keowee	51.3	52.9		44.6
Lakeland	57.1	50.1		42.7
McNair 601	54.1	41.3		42.7
Paoli	47.3	48.6		44.1
Schuyler	51.2	56.4		46.0

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*Average of 2 replications

OAT VARIETIES

<u>Recommended Varieties</u>	<u>Yield Bu/A</u>		<u>Test Wt. Lbs/Bu</u>	
	1973	1974	1973	1974
Coker 66-22		75.7		37.7
Compact		64.4		37.8
Dubois		56.4		37.2
Norline		58.0		37.3
Walken		71.6		37.8
<u>Other Varieties</u>				
Chilocco		56.7		35.1
Coker 70-16		100.5		37.5
Pennlan		97.8		36.8

WINTERKILLED

WINTERKILLED