1996 Kentucky Small Grain Variety Trials

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In 1996, Kentucky farmers harvested 28.1 million bushels of soft red winter wheat produced on 530,000 acres. The average yield of 53 bu/a was unchanged from last year. Barley yields were 70 bu/a, the same as 1995 yields.

Small grain performance tests were conducted in six of the seven agro-climatic regions of Kentucky (Fig. 1). Agricultural areas within each region are considered to have similar soil types and climatic conditions. Each region having a substantial acreage of a small grain commodity will have a trial conducted in that region for that commodity.

The objective of the Kentucky small grain variety trials is to evaluate varieties of barley and wheat that are commercially available or may soon be available to Kentucky farmers. New varieties are continually being developed by agricultural experiment stations and commercial firms. Annual evaluation of small grain varieties and selections provides seedsmen, farmers, and other agricultural workers with current information to help them select the varieties best adapted to their locality and individual requirements.

Since weather, soil and other environmental factors will alter varietal performance from one location to another, tests are grown in six locations (Fig. 1) in the state.

Experimental Methods

The plots were planted with a specially built multi-row cone seeder.

In 1996, Kentucky farmers harvested Table 1—Small Grain Harvested Acreage and Yields in Kentucky, 1994-1996.*

	<u>19</u>	<u>96</u>	<u>19</u>	<u>95</u>	<u>19</u>	<u>94</u>
Crop	Harvest 1000 A		Harvest 1000 A		Harvest 1000 A	Yield Bu/A
Wheat	530	53	460	53	450	57
Barley	20	70	16	70	14	75

* July 12, 1996, Kentucky Crop and Livestock Reporting Service.

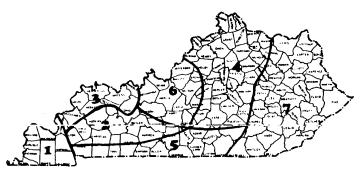


Figure 1—Agro-climatic regions of Kentucky small grain variety trials.

Region	1996 Location	Cooperator	Crop Tested
1. Purchase	Mayfield	Joe Lynch	Wheat
2. Ohio Valley	Owensboro	Bob Alvie	Wheat
3. Bluegrass	Lexington	Kentucky Agricultural Experiment Station	Barley, Wheat
4. Southern Tier	Hopkinsville Princeton (Limestone soil)	Donnie & Duane Moore Research and Education Center	Barley, Wheat Barley, Wheat
5. North Central	Hardinsburg	Gene David Shrewsbury	Wheat

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Each plot consisted of six rows to form a plot 4 feet wide, which was later trimmed to 10 feet in length. Each variety was grown in four replications, and the data presented are the average response from the four replications of 40 square feet harvested with a small plot combine. Planting dates of all trials for the past 3 years are listed in Table 2.

In some instances, uncontrollable factors — such as excessive rainfall, winter killing, high winds, hail, grazing cattle, etc.—adversely affected an experiment so that the results were judged unreliable. When this occurred, results are not given for that location and year. Data averaged over a period of years gives a more accurate picture of varietal performance than does annual data.

Results and Discussion

Since genetic expression of a variety is greatly influenced by environmental conditions, it is best to have several years' data from which to draw conclusions. Performance of a variety tested for only one year should not be compared with a 3-year average of another variety, since it is possible that results in one of the other years were extremely good or poor, and thus not comparable.

The yield of a variety is relative and should be compared with the yields of the other varieties in the same experiment and at the same location. 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 consistently out-yields another over a period of several years, the chances are that the differences are real.

Lodging data are very difficult to interpret. A highyielding variety should not necessarily be down-graded because of a high percentage of lodging for a given year at a given location. Local weather conditions, such as wind and rain, may cause a variety to lodge much more than it normally does. Variety trials normally have a greater degree of lodging than do farmer fields. It should also be emphasized that a variety reported to be 50% lodged does not imply that only 50% of the grain could be harvested. With good equipment, almost all of the grain can often be saved. Lodging data for a period of years should receive more consideration than annual lodging data since they will give a more accurate picture of varietal performance.

1996 Test Conditions

Favorable weather during October allowed for timely seeding of wheat and barley variety trials. November was cooler and drier than normal and the tests went into winter not having as much growth as would be desirable. December continued cooler and drier than normal with considerable temperature extremes with extended periods of highs in the 60s and 70s and extreme lows near zero degrees. Extreme up and down temperatures continued through January and the first part of February with the coldest temperatures of the winter occurring the first week of February. Above average precipitation and below average temperatures continued through March and the first half of April. The trials came out of the winter in quite poor condition having undergone three periods of burn down of vegetative growth due to extreme fluctuations in temperature. Diseases were very light at all locations with the exception of some head scab infection. Overall, yields were little affected by diseases.

The Princeton limestone (Table 7) and Lexington (Table 6) trials were treated with fungicides to control fungal diseases. Tests at all other locations were

			Precedin	ģ	<u>Pla</u>	unting l	Date
Region	Location		Crop	Crop	1996	1995	1994
Purchase	Mayfield Murray	1995-96 1994	Soybeans Corn	Wheat	11/21	10/25	10/13
Ohio Valley	Owensboro	1994-96	Corn	Wheat	10/23	10/17	10/26
Bluegrass	Lexington		Fallow	Barley Wheat	10/13 10/17	10/13 10/13	10/12 10/21
Southern Tier	Elkton Hopkinsville Princeton <i>(Limestone so</i>	1994 1995-96 il)	Corn Corn Fallow	Barley Wheat Barley Wheat	10/18 10/18 10/26 10/26	10/27 10/27 10/26 10/26	10/14 10/14 10/13 10/28
North Central	Hardinsburg	1994-96	Corn	Wheat	10/17	10/12	10/15

Table 2—Region, Location, Preceding Crop and Planting Dates of Kentucky Small Grain Trials, 1994-1996.

untreated so varieties could be rated for disease resistance. However, there was little opportunity for disease ratings due to the overall light disease pressure infections at the test locations.

Small Grain Varieties for 1997

Varieties eligible for certification include (1) varieties that may have potential for Kentucky and (2) older varieties that are still acceptable for production in Kentucky. The characteristics of the small grain varieties are summarized in Tables 3 and 10.

Soft Red Winter Wheat Varieties

Kentucky's climate and soils are well suited for the production of high quality soft red winter wheat. No single variety has all the desirable characteristics, but each has certain advantages. Yielding ability, straw strength, height, earliness, grain quality, and disease resistance are important in choosing a variety. Varietal performance is presented in Tables 4-8.

Winter Barley Varieties

Winter barleys are less winterhardy than winter wheat but more hardy than winter oats. The degree of winterhardiness, straw strength, and maturity are important characteristics when choosing a variety. Varietal performance data are presented in Tables 11-12A.

Certified Seed

Planting certified seed is one of the first steps in ensuring a good small grain crop. The extra cost of certified seed is justified in view of the high quality of seed obtained. Certified seed is seed which has been grown in such a way as to ensure 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 disease. The Kentucky Agricultural Experiment Station recommends that Kentucky-certified seed be used whenever possible for growing commercial crops of small grains. CHARACTERISTICS OF WHEAT VARIETIES TESTED IN 1996. **TABLE 3**

VARIETY	PROTECTED ³	SOURCE	RELEASE DATE	YIELD (BU/AC)	TEST WEIGHT (LB/BU)	LODGING (%)	PLANT HEIGHT (IN.)	SURVIVAL (%)	HEADING DATE 1996
2510	YES	PIONEER HI BRED INT.	1991	C 79	57 1	с с	0 02	1	
2540	YES	HI BRED	1995	63.8	56.2		0.2C	2.70	19-May
2552	YES		1994	61.1	57.3	0.0		C 01	17-May
2568	YES	PIONEER HI BRED INT.	1995	61.0	55.9	0.0	- C - C - C - C - C - C - C - C - C - C		14 - Max
AGRIPRO SHILOH	YES	AGRIPRO BIOSCIENCES	1994	59.5	56.7		20.75		17-Max
AGRIPRO CLEMENS	YES	AGRIPRO BIOSCIENCES	1994	59.4	57.5		7.77	10°4	
HOPEWELL	YES	OHIO	1995	59.4	55.8		1.00		
PATTERSON	YES	I ND I ANA	1994	58.6	5,4,5		0.4C		Vem-VI
COKER 9663	YES	NORTHRUP KING	1996	58.2	57.3		24.0	†	14-May
AGRIPRO ELKHART	YES	AGRIPRO BIOSCIENCES	1995	58.2	57.9		K	4 0 4 0 4	17-May
82W	YES	AGRA TECH	1994	58.0	55.7	0.0	7 72	1 1 1 1 1 1 1	15 - May
MADISON	YES	VIRGINIA	1990	57.4	56.8	0.0	35.1		
JUSTICE	YES	KENTUCKY AMERICAN SEEDS	1995	55.8	57.5	0.0	572		16-May
2628	YES	PIONEER HI BRED INT.	1994	54.5	57.2	0.0	31.9	35.4	17-May
FREEDOM	YES	OHIO	1991	54.4	54.2	0.0	7.45	1.72	10-Mov
GLORY	YES	OHIO	1994	53.6	57.1	0.0	2 22	2 H V	17-May
PATRIOT	YES	KENTUCKY AMERICAN SEEDS	1994	53.3	56.9	0-0	22 6	102	17-Mox
CLARK	YES	INDIANA	1988	53.3	55.9		26.0	0.70	
VERNE	YES	KENTUCKY	1990	52.0	56.2		2 22		ABM-41
2580	YES	PIONEER HI BRED INT.	1992	51.3	56.5		2.02	20.5	VEM-01
BECKER	YES	OHIO	1985	50.0	54.9		21.2	0.70	
DB 562W	YES	DIENER BROS.	1995	50.0	56.0		7.10		19-May
FFR 523W	YES	SOUTHERN STATES COOP.	1995	49.3	55.4		. 70	24.0	Vem-01
GRANT	YES	INDIANA	1994	48.8	54.0		20.02		
AGRIPRO FOSTER	YES	AGRIPRO BIOSCIENCES	1996	48.6	54.8		20.20	40.0 27.75	10-May
CARDINAL	YES	OHIO	1986	48.5	55.2	0.0	24.7	4.40 4.70	
AGRIPRO MASON	YES	AGRIPRO BIOSCIENCES	1995	48.1	55.5		1.00	0.02 27	CU-May
2684	YES	PIONEER HI BRED INT.	1994	47.8	56.5		20.4	2. 7 7	10-Mar
FFR 525	YES	SOUTHERN STATES COOP.	1994	7 27	56.0	0.0	20.00		19-May
COKER 9543	YES	NORTHRUP KING	1990	45.8	56.8	0.0	30.5		17-May
WAKEFIELD	YES	VIRGINIA	1990	44.0	54.4	0-0	7 72		21-Mov
FFR 555W	YES	SOUTHERN STATES COOP.	1990	43.9	53.9	0.0	30.3	24.6	10-May
EKNIE	YES		1994	41.9	55.9	0.0	202	20.02	17-May
AGRIPRO HICKORY	YES	AGRIPRO BIOSCIENCES	1994	41.6	57.2	0.0	33.6	21.7	18-May
CALDWELL	YES	I ND I ANA	1980	41.4	55.9	0.0	9 22	10 4	10-May
FEATHERSTONE	YES	FEATHERSTONE FARMS	1995	41.1	55.9		2. 2. 2.	24 20	70 More
JACKSON	YES	VIRGINIA	1993	38.5	55.2		אי 	0.12	
DB 494W	YES	DIENER BROS.	1994	37.8	56.3		202		VEM-U2
COKER 9803	YES		1990	36.2	56.9			4. U- 4	
2643	YES	PIONEER HI BRED INT.	1994	22.4	52.7		25.0	2	
FFR 502	YES	SOUTHERN STATES COOP.	1995	8.9	53.2	0.0	26.6	- r - r	21-May
								2	
MEAN = 49.5 BU/A									

CV = 17.1% LSD(0.05) = 3.9 BU/A

¹The CV is a measure of experimental error. The lower the CV the more reliable the results. ²The LSD (Least Significant Difference) is the minimum difference required for two varieties to be significantly different from one another. ³"Unauthorized propagation prohibited". Seed of these varieties must be sold by variety name only as a class of certified seed. This includes varieties for which protection has been applied and those for which protection has been granted.

VARIETY (BU/AC) 2552 57.6 2510 57.6 AGRIPRO ELKHART 57.6 AGRIPRO ELKHART 55.9 AGRIPRO CLEMENS 54.4 AGRIPRO SHILOH 53.1 AGRIPRO SHILOH 53.1 AGRIPRO SHILOH 53.1 AGRIPRO SHILOH 53.1 B2W 54.4 AGRIPRO SHILOH 53.1 B2W 53.1 B2W 53.1 PATTERSON 53.1 2628 52.9 VERNE 52.0 PATTERSON 53.1 2628 52.0 VERNE 52.0 PATRIOT 51.7 AGRIPRO FOSTER 52.0 PATRIOT 51.7 AGRIPRO FOSTER 52.0 AGRIPRO FOSTER 50.5 Z684 50.5 Z684 50.5 Z684 50.5 Z684 50.5 Z684 50.5 <td< th=""><th>(L8/8U) 56.9 55.2 55.2 55.3 56.7 55.7 55.7 55.1</th><th>(%) 0.0 0.0 0.0</th><th>(IN.)</th><th></th><th></th></td<>	(L8/8U) 56.9 55.2 55.2 55.3 56.7 55.7 55.7 55.1	(%) 0.0 0.0 0.0	(IN.)		
	56.2 57.5 57.5 57.5 57.5 57.5 57.5 57.5 57	0.0		(%)	1996
	56.2 57.4 55.2 55.2 55.2 55.2 55.2 55.2 55.2 55	0.00	33.3	74.0	17-Mav
	55.2 55.2 55.2 55.2 55.2 55.2 55.2 55.2	0.0	32.9	78.8	19-Mav
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	55.9 55.2 55.2 55.2 55.2 55.2 55.2 55.2		36.2	75.5	18-May
	55.2 56.5 55.7 55.7 55.7	0.0	32.4	75.2	17-May
	55.3 56.5 55.7 55.7	0.0	33.7	75.7	15-May
	56.2 56.5 55.7 55.1	0.0	33.0	73.0	17-May
	56.5 56.7 55.7 55.1	0.0	33.2	71.8	17-May
	56.7 55.7 55.1	0.0	34.3	75.2	14-May
	55.7 55.1	0.0	32.6	67.7	17-May
	55.1	0.1	36.7	69.6	18-May
		0.0	34.2	77.0	19-May
	56.4	0.0	33.3	69.8	17-May
	55.2	0.0	32.8	67.2	19-May
	56.5	0.0	31.0	65.7	19-May
	54.3	0.0	34.6	67.3	19-May
	55.6	0.0	31.5	69.8	16-May
	54.3	0.0	31.9	70.5	19-May
	56.3	0.0	32.5	60.7	18-May
	55.3	0.0	34.6	62.5	21-May
	54.7	0.0	36.5	64.3	20-May
	55.0	0.0	33.4	72.9	14-May
	53.9	0.0	31.4	62.3	19-May
	56.1	0.0	30.2	67.5	17-May
	54.4	0.0	27.9	67.5	16-May
	55.8	0.0	31.6	57.0	20-May
	56.5	0.0	33.6	60.8	18-May
	54.2	0.0	31.6	72.5	18-May
9803	56.8	0.0	29.7	58.8	19-May
	55.0	0.0	28.8	60.4	17-May
CALDWELL 41.0	55.5	0.0	33.7	59.8	19-May
	54.0	0.0	26.4	54.6	21-Mav

AVERAGE PERFORMANCE OF WHEAT VARIETIES TESTED IN 1995-1996. **TABLE 3a**

	YIELD	TEST WEIGHT	LODGING	PLANT HETCHT	SLIPVIVAL	HEADING DATE
VARIETY	(BU/AC)	(LB/BU)	(%)	(IN.)	(%)	1996
2510	67.0	56.2	0.0	34.0	83.2	19-Mav
AGRIPRO CLEMENS	64.8	57.3	1.0	37.8	82.7	18-May
MAD I SON	63.8	56.0	0.1	34.8	79.0	17-May
VERNE	63.7	56.2	0.3	38.3	77.9	18-May
2628	63.0	57.2	0.0	33.8	75.8	17-May
PATRIOT	62.9	56.6	0.0	34.1	78.3	17-May
2580	61.6	55.9	0.0	33.2	7.77	16-May
BECKER	61.5	54.5	0.0	33.4	78.8	19-May
WAKEFIELD	61.3	56.0	0.1	36.2	73.8	21-May
2684	61.3	57.2	0.1	32.7	74.9	19-May
FFR 555	61.1	54.8	0.0	32.8	72.6	19-May
AGRIPRO FOSTER	60.8	55.7	0.0	34.5	76.5	19-May
FREEDOM	60.5	54.9	0.3	36.0	75.8	19-May
FFR 525	60.0	56.7	0.9	34.2	71.9	18-May
JACKSON	59.2	56.3	1.7	33.7	69.2	20-May
CARD I NAL	57.5	55.6	0.3	38.1	72.6	20-May
AGRIPRO HICKORY	57.0	56.9	0.0	34.9	70.8	18-May
CLARK	55.5	55.6	0.0	34.6	78.8	14-May
GRANT	55.1	54.9	0.0	32.6	76.8	18-May
ERNIE	54.8	55.5	0.2	30.4	72.2	17-May
COKER 9803	53.1	57.4	0.3	30.9	66.3	19-May
COKER 9543	52.7	56.6	0.1	30.9	71.7	17-May
2643	50.8	55.6	0.0	27.8	67.8	21-May
CALDWELL	49.3	55.9	0.2	34.8	65.9	19-May

AVERAGE PERFORMANCE OF WHEAT VARIETIES TESTED IN 1994-1996. **TABLE 3b**

MAT 55 55.7 55	International conditions 55.7	VARIETY	YIELD (BU/AC) 1996 1995 1994 MEAN	1995 (BU/AC 1994	C) Mean	TEST WT 1996 1995	(LB/BU) 1994 MFAN	PCT LODGED 1006 1005 1006 MEAN	PCT LODGED- 06 1005 1004	3ED	NA	PC 1006		PCT SURVIVAL		PLANT HEIGHT (IN)	HEADING DATE
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00 ELOMAT 35 7 55 56 65 55 55 7 55 56 65 55 55 55 7 55 56 55	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	JUSTICE	55			55	55.7	55.7	0	0	0	0	30			30	35	16-Mav
00 15 10 10 <td< td=""><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>ł</td><td>5</td><td>1</td><td></td><td>5</td><td></td><td>56.0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>30</td><td></td><td></td><td>20</td><td>33</td><td>11-Mav</td></td<>	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	ł	5	1		5		56.0	0	0	0	0	30			20	33	11-Mav
01 25 54 55 <td< td=""><td>101 25 44 9 25 54,4 10 <</td><td>80</td><td>23</td><td>57</td><td></td><td>55</td><td>28</td><td>57.5</td><td>0</td><td>0</td><td>0</td><td>0</td><td>15</td><td>100</td><td></td><td>58</td><td>35</td><td>16-Mav</td></td<>	101 25 44 9 25 54,4 10 <	80	23	57		55	28	57.5	0	0	0	0	15	100		58	35	16-Mav
Old Description Descriprote <thdescription< th=""> <thdes< td=""><td>01 5</td><td>2568</td><td>52</td><td></td><td></td><td>22</td><td></td><td></td><td>•</td><td>0</td><td>0</td><td>0</td><td>18</td><td></td><td></td><td>18</td><td>32</td><td>12-Mav</td></thdes<></thdescription<>	01 5	2568	52			22			•	0	0	0	18			18	32	12-Mav
International (1) 10	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2510	22	44	89	62	52.5		0	0	0	0	ß	100	3 5	R	32	10-Mav
ICOT 50 45 54,55,44,553,55,4 0 0 0 7 000 05 ICOT 50 45 55,55,44,553,55,4 0 0 0 27 000 57 33 ICOT 60 53 55,55,44,553,55,4 0 0 0 27 000 57 33 ICOT 57 53,12,52,55,53,5 0 0 0 10 0 57 33 33 34 35	ICOT 50 45 55,55,44,55,35,4 0	2628	50	22	87	63	55.1		0	0	0	0	21	100	96	ř	12	14-May
Rick 0	Rick 0	PATRIOT	ß	48	8	60	54.4		0	0	0	0	10	100	100	2	2 E	15-May
Nu 65 45 85 55.0.54.47.5.4.3 0	NM 65 45 65 55 <th< td=""><td>PATTERSON</td><td>50</td><td>5</td><td></td><td>48</td><td>55.4</td><td></td><td>0</td><td>0</td><td>0</td><td>c</td><td>77</td><td></td><td></td><td>2 0</td><td>27 72</td><td></td></th<>	PATTERSON	50	5		48	55.4		0	0	0	c	77			2 0	27 72	
No. Control Co	R 55 75 <th7< th=""> 75 75 75</th7<>	MAD I SON	49	40	88	59	50.4	ŝ	0	0	0		71	86	8	3 6	t K	ABM-41
16 73 74 74 74 74 74 74 74 74 75 <th< td=""><td>1 1</td><td>2580</td><td>49</td><td>43</td><td>83</td><td>28</td><td>52.4</td><td></td><td></td><td></td><td>• c</td><td></td><td>2 K</td><td>86</td><td>2 8</td><td>2 F</td><td></td><td>VBM-21</td></th<>	1 1	2580	49	43	83	28	52.4				• c		2 K	86	2 8	2 F		VBM-21
No. Control Co	No. C T T	2552	48	53		20	53.9			• c	• c) ¥	86	2	2 8	<u>.</u>	Vem-CI
RU 65 54.7 55.4 57.4 67 57.4 67 57.4 67 57.4 67 57.4	RU 64 54,2 54,3 54,	82W	47	47		47		52.0	• c	• c	• c	• c	2 2	86				
Hell 5 38 57 51 52.5 52.7 52.5 <td>Hell 6 33 51 32.5 32.7<!--</td--><td>DB 562W</td><td>46</td><td></td><td></td><td>797</td><td></td><td>54.4</td><td>• c</td><td>۰ c</td><td></td><td></td><td>35</td><td>3</td><td></td><td>35</td><td>40 1</td><td>12-May</td></td>	Hell 6 33 51 32.5 32.7 </td <td>DB 562W</td> <td>46</td> <td></td> <td></td> <td>797</td> <td></td> <td>54.4</td> <td>• c</td> <td>۰ c</td> <td></td> <td></td> <td>35</td> <td>3</td> <td></td> <td>35</td> <td>40 1</td> <td>12-May</td>	DB 562W	46			797		54.4	• c	۰ c			35	3		35	40 1	12-May
0.0663 5 55	0 0063 6 0 5 5 5 7 5 4 5 5 7 5 1 5 5 5 4 5 5 0 0 0 0 0 10 0 0 </td <td>HOPEWELL</td> <td>42 2</td> <td>38</td> <td></td> <td>6.5</td> <td>5</td> <td>- C - C - C - C - C - C - C - C - C - C</td> <td>• c</td> <td>) c</td> <td>o c</td> <td>o c</td> <td>- 2</td> <td>001</td> <td></td> <td>- 5</td> <td>40 1</td> <td>17-May</td>	HOPEWELL	42 2	38		6.5	5	- C - C - C - C - C - C - C - C - C - C	• c) c	o c	o c	- 2	001		- 5	40 1	17-May
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Ro File Vol Vol <td>Rev Foster 42 44 60 $52,153,85,053,55,55,55,55,55,55,55,55,55,55,55,55,5$</td> <td>AGRIPRO CLEMENS</td> <td>42</td> <td>46</td> <td>2</td> <td>55</td> <td>55.6</td> <td></td> <td>0</td> <td>0</td> <td>5</td> <td>ъ</td> <td>13</td> <td>8</td> <td>100</td> <td>1</td> <td>35</td> <td>10-Mav</td>	Rev Foster 42 44 60 $52,153,85,053,55,55,55,55,55,55,55,55,55,55,55,55,5$	AGRIPRO CLEMENS	42	46	2	55	55.6		0	0	5	ъ	13	8	100	1	35	10-Mav
RO FOSTER 40 45 76 54 52.2 53.7 55.7 56.7 <t< td=""><td>Ro Foster 40 45 76 54 52.2 53.7 55.7 53.2 55.7 53.2 55.7 53.2 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.5 55.7 55.5 55.7 55.5 55.7 55.5 55.7 55.5 55.7 55.5 55.7 55.5 55.6 0 0 10 11 100 100 73 35.7 R0 HICKNY 40 48 57.5 55.9 55.3 0 0 0 16 100 57 35<td>BECKER</td><td>42</td><td>44</td><td>8</td><td>58</td><td>53.8</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>2</td><td>100</td><td>100</td><td>12</td><td>32</td><td>18-May</td></td></t<>	Ro Foster 40 45 76 54 52.2 53.7 55.7 53.2 55.7 53.2 55.7 53.2 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.7 55.5 55.7 55.5 55.7 55.5 55.7 55.5 55.7 55.5 55.7 55.5 55.7 55.5 55.6 0 0 10 11 100 100 73 35.7 R0 HICKNY 40 48 57.5 55.9 55.3 0 0 0 16 100 57 35 <td>BECKER</td> <td>42</td> <td>44</td> <td>8</td> <td>58</td> <td>53.8</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>100</td> <td>100</td> <td>12</td> <td>32</td> <td>18-May</td>	BECKER	42	44	8	58	53.8		0	0	0	0	2	100	100	12	32	18-May
0543 40 48 79 56 55.7 53.2 57.6 55.5 5 55.7 53.5 57.6 55.5 53.5 57.6 55.7 53.5 53.5 57.6 55.7 53.5 53.5 53.5 53.5 53.7 53.5 53.5 53.5 53.5 53.5 53.5 53.5 53.5 53.5 53.5 53.5 53.5 53.5 53.5 53.5 53.5 53.7 53.5 53.7 53.5 53.7 54.7 54.7 57 53.8 53.7 54.7 54.7 56.7 53.8 53.7 54.4 53.7 54.7 54.7 56.7 58.8 57.7 54.7 56.7 53.7 54.7 56.7 58.8 57.7 54.7 56.7 58.8 57.7 56.7 55.6 0 0 0 0 0 0 0 0 58.8 57.7 55.7 55.7 55.7 55.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0	89543 40 48 77 55 55.7 55.5 0 0 0 14 100 81 65 37 Re HICKORY 40 54 77 55.5 55.6 55.1 55.5 50 55.3 57.6 55.5 57.6 55.5 57.6 55.3 57.6 55.7 55.7 55.6 55.7 55.6 57.7 55.7 55.7 55.7 55.6 0 0 0 100 77 35 37 40 57 55.7 55.6 0 0 0 0 16 100 56 37 37 40 0 54.7 55.6 0 </td <td>AGRIPRO FOSTER</td> <td>40</td> <td>5</td> <td>22</td> <td>54</td> <td>53.7</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>18</td> <td>0</td> <td>100</td> <td>R</td> <td>32</td> <td>18-May</td>	AGRIPRO FOSTER	40	5	22	54	53.7		0	0	0	0	18	0	100	R	32	18-May
Reduction 40 54 91 62 52.6 53.7 55.9 53.5 53.7 <	Red Hickory 40 54 91 62 52.6 52.4 56.3 0 0 0 13 100 10 71 35 Reo HICKORY 40 48 84 57 55.9 53.5 51.7 52.6 0 0 0 19 100 77 35 Reo SHILOH 40 48 87.7 57.7 57.0 57.0 57.1 55.8 57.1 55.5 57.1 55.5 57.1 55.5 57.1 55.5 57.1 55.5 57.1 57.6 57.0 58 57.1 57.6 57.6 57.6 57.7 57.6	COKER 9543	40	48	2	56	53.2		0	0	0	0	14	100	81	: 5	31 21	13-May
R00 HICKORY 40 48 57 55.9 53.5 51.7 52.6 0 0 0 16 100 55 71 55 R00 SHILOH 40 46 43 53.5 51.7 52.6 0 0 0 16 100 55 71 55 R00 SHILOH 40 46 43 53.5 51.7 52.6 0 0 0 0 9 100 95 71 55 716 37 46 90 53 54.4 56.8 53.7 54.4 55.3 9 0 0 0 9 100 95 71 32 7 ELL 34 41 68 48 53.7 54.4 55.3 9 0 0 0 9 100 95 71 32 8 61 73 34 47 68 53.5 55.7 55.4 55.0 0 0 0 13 100 95 57 54.5 55.5 55.7 54.5 </td <td>R00 HICKORY 40 48 57 55.9 53.9 50.0 56.3 0 0 0 10 95 71 35 R00 SHILOH 40 46 43 53.5 51.7 52.6 0 0 0 16 100 55 33 32 R00 SHILOH 40 46 43 53.5 51.7 52.6 0 0 0 0 9 00 53 33 33 54.7 50.0 54.4 55.3 9 9 31 46 90 33 54.4 55.3 55.3 0 0 0 0 9 100 56 33 54.4 55.5 30 56.7 55.3 55.5 9 0 0 0 0 0 0 5 0 5 33 57 55.7 54.4 55.5 50 55.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>VERNE</td> <td>40</td> <td>54</td> <td>2</td> <td>62</td> <td>2.6 52.4</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td><u>۳</u></td> <td>6</td> <td>100</td> <td>78</td> <td>- 90 M</td> <td>16-May</td>	R00 HICKORY 40 48 57 55.9 53.9 50.0 56.3 0 0 0 10 95 71 35 R00 SHILOH 40 46 43 53.5 51.7 52.6 0 0 0 16 100 55 33 32 R00 SHILOH 40 46 43 53.5 51.7 52.6 0 0 0 0 9 00 53 33 33 54.7 50.0 54.4 55.3 9 9 31 46 90 33 54.4 55.3 55.3 0 0 0 0 9 100 56 33 54.4 55.5 30 56.7 55.3 55.5 9 0 0 0 0 0 0 5 0 5 33 57 55.7 54.4 55.5 50 55.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	VERNE	40	54	2	62	2.6 52.4		0	0	0	0	<u>۳</u>	6	100	78	- 90 M	16-May
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TIELD 37 4.6 90 58 54.8 55.3 0 0 0 9 100 100 70 33 AELL 34 41 68 48 53.7 53.7 54.4 53.9 0 0 0 9 100 70 33 AFLL 34 41 68 48 53.7 55.7 54.4 53.9 0 0 0 9 100 70 33 31 41 75 49 51.5 52.7 53.8 0 0 0 0 5 51.6 52.7 55.7	Tello 37 46 90 58 54.8 54.4 56.8 55.3 0 0 0 0 9 100 70 33 FELL 3 4 1 68 48 53.7 53.7 54.4 53.9 0 0 0 0 9 100 84 64 34 57 59 58.9 0 0 0 0 9 100 84 64 34 57 59 58.9 0 0 0 0 13 100 93 67 29 67 35 29 47 83 53 54.9 55.7 57.6 53.5 99.5 38 67 36 57 57.4 55.0 0 0 0 10 100 99 67 30 20 20 20 20 14 14 54.0 55.5 52.8 0 0 0 0 10 100 99 70 29 26 26 50 14 54.0 55 55.4 0 0 0 10 100 99 70 29 26 26 54.1 14 54.0 54.0 54.0 0 0 0 10 100 99 70 29 26 23 30 30 27 57.4 55.0 0 0 0 0 10 100 99 70 29 26 26 51.1 52.9 56.2 53.4 0 0 0 10 100 99 70 29 26 26 51.1 52.9 56.2 53.4 0 0 0 10 100 99 70 29 26 26 51.1 52.9 56.2 53.4 0 0 0 10 100 99 70 29 29 26 20 114 14 54.0 54.0 54.0 0 0 0 10 100 99 70 29 29 26 25 51.1 52.9 56.2 53.4 0 0 0 10 10 0 99 70 29 29 20 20 20 20 20 114 14 54.0 54.0 54.0 0 0 0 10 100 99 70 29 29 26 25 51.1 52.9 56.2 53.4 0 0 0 0 0 10 100 99 70 29 29 26 25 51.1 52.9 56.2 53.4 0 0 0 0 0 0 10 100 99 70 29 20 29 20 100 58 71 3.0 59 54.2 50.0 51.0 51.0 51.5 54.7 0 0 1 0 10 100 98 71 32 30 20 20 20 20 20 20 20 20 20 20 20 20 20	DB 494W	39			39			0	0	0	0	0			0	31	16-Mav
Tell 34 41 68 48 53.7 53.7 53.7 54.4 53.7 55.7 56.9 0 0 0 9 100 84 64 34.7 8903 33 50 54 57.5 55.5 56.9 0	Tell 34 41 68 48 53.7 53.7 53.7 53.7 54.4 53.7 55.7 54.4 53.7 55.7 55.9 56.9 0 <	WAKEFIELD	37	46	8	58	54.4		0	0	0	0	0	100	100	2	33	15-Mav
7 9803 33 50 80 54 57.6 53.5 59.5 56.9 0 0 0 8 100 93 67 29 1 NAL 31 41 75 49 511.5 52.0 57.9 53.8 0 0 0 5 100 93 67 35 1 1 31 41 75 49 511.5 52.0 57.9 53.8 0 0 0 13 100 96 67 35 29 47 85 53 54.9 52.7 57.4 55.0 0 0 0 13 100 89 67 30 255 28 47 90 55 51.1 57.9 55.5 52.8 0 0 0 10 100 69 70 29 50 27 50 55 51.1 55.9 56.2 53.4 0 0 0 10 100 69 70 29 50 27 50 55 51.1 55.9 56.2 53.4 0 0 0 2 29 29 50 14 42 45 14 54.0 </td <td>7 803 33 50 80 54 57.6 55.9 0 0 0 0 31 47 85 57.6 55.9 56.9 0 0 0 51 57.6 55.7 55.3 57.9 57.6 57.6 57.7 55.7 57.5 57.7 57.5 57.7 $57.$</td> <td>CALDWELL</td> <td>34</td> <td>41</td> <td>68</td> <td>48</td> <td>53.7</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>100</td> <td>84</td> <td>5</td> <td>34</td> <td>18-May</td>	7 803 33 50 80 54 57.6 55.9 0 0 0 0 31 47 85 57.6 55.9 56.9 0 0 0 51 57.6 55.7 55.3 57.9 57.6 57.6 57.7 55.7 57.5 57.7 57.5 57.7 $57.$	CALDWELL	34	41	68	48	53.7		0	0	0	0	0	100	84	5	34	18-May
IMAL 31 42 80 51 51.6 52.0 57.9 53.0 67 35.5 57.7 55.2 57.5 5	IMAL 31 42 80 51 51.6 52.0 57.9 53.3 51 51.6 52.7 53.3 53.5 53	COKER 9803	23	20	8	54	53.5		0	0	0	0	80	100	63	67	29	13-Mav
$\begin{bmatrix} & 31 & 41 & 75 & 49 & 51.5 & 52.7 & 54.5 & 52.9 & 0 & 0 & 0 & 13 & 100 & 89 & 67 & 30 \\ 29 & 47 & 83 & 53 & 54.9 & 57.5 & 57.4 & 55.0 & 0 & 0 & 0 & 6 & 100 & 100 & 69 & 26 \\ 30 & 27 & 50 & 85 & 54 & 51.10 & 55.5 & 52.8 & 0 & 0 & 0 & 10 & 100 & 99 & 70 & 29 \\ 14 & 14 & 54.0 & 54.0 & 0 & 0 & 31 & 10 & 5 & 100 & 100 & 68 & 30 \\ 18.1x & 42 & 45 & 83 & 57 & 54.4 & 53.1 & 56.5 & 54.7 & 0 & 0 & 1 & 0 & 15 & 100 & 96 & 71 & 32 \\ 18.1x & 18.1x & 18.1x & 110 & 51 & 54.4 & 53.1 & 56.5 & 54.7 & 0 & 0 & 1 & 0 & 15 & 100 & 96 & 71 & 32 \\ 10.13 & 18.1x & 10 & 15 & 100 & 96 & 71 & 32 \\ 18.1x & 42 & 45 & 83 & 57 & 54.4 & 53.1 & 56.5 & 54.7 & 0 & 0 & 1 & 0 & 15 & 100 & 96 & 71 & 32 \\ 18.1x & 42 & 45 & 83 & 57 & 54.4 & 53.1 & 56.5 & 54.7 & 0 & 0 & 1 & 0 & 15 & 100 & 96 & 71 & 32 \\ 18.1x & 42 & 45 & 83 & 57 & 54.4 & 53.1 & 56.5 & 54.7 & 0 & 0 & 1 & 0 & 15 & 100 & 96 & 71 & 32 \\ 18.1x & 42 & 45 & 83 & 57 & 54.4 & 53.1 & 56.5 & 54.7 & 0 & 0 & 1 & 0 & 15 & 100 & 96 & 71 & 32 \\ 18.1x & 42 & 45 & 83 & 57 & 54.4 & 53.1 & 56.5 & 54.7 & 0 & 0 & 1 & 0 & 15 & 100 & 96 & 71 & 32 \\ 18.1x & 42 & 45 & 83 & 57 & 54.4 & 53.1 & 56.5 & 54.7 & 0 & 0 & 1 & 0 & 15 & 100 & 96 & 71 & 32 \\ 18.1x & 42 & 45 & 83 & 57 & 54.4 & 53.1 & 56.5 & 54.7 & 0 & 0 & 1 & 0 & 15 & 100 & 96 & 71 & 32 \\ 18.1x & 42 & 45 & 83 & 57 & 54.4 & 53.1 & 56.5 & 54.7 & 0 & 0 & 1 & 0 & 15 & 100 & 96 & 71 & 32 \\ 18.1x & 42 & 45 & 83 & 57 & 54.4 & 53.1 & 56.5 & 54.7 & 0 & 0 & 1 & 0 & 15 & 100 & 96 & 71 & 32 \\ 18.1x & 42 & 45 & 45 & 45 & 45 & 54.4 & 53.1 & 56.5 & 54.7 & 0 & 0 & 1 & 0 & 15 & 100 & 96 & 71 & 32 \\ 18.1x & 42 & 45 & 45 & 45 & 54.4 & 53.1 & 56.5 & 54.7 & 0 & 0 & 1 & 0 & 15 & 100 & 96 & 71 & 32 \\ 18.1x & 42 & 45 & 45 & 45 & 45 & 55.1 & 56.5 & 54.7 & 0 & 0 & 1 & 0 & 15 & 100 & 96 & 71 & 32 \\ 18.1x & 42 & 45 & 45 & 45 & 45 & 45 & 45 & 45$	7 31 41 75 49 51.5 52.7 54.5 52.9 0 0 0 13 100 89 67 30 55 29 47 83 53 54.9 55.7 57.4 55.0 0 0 0 6 100 69 26 <	CARDINAL	ñ	42	80	5	52.0		0	0	0	0	Ś	100	96	67	35	22-Mav
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	55 29 47 83 53 54,9 52.7 57.4 55.0 0 0 0 6 100 69 26 28 51 28 47 90 55 52.0 51.0 55.5 52.8 0 0 0 10 100 99 70 29 50N 27 50 85 54 51.1 52.9 56.2 53.4 0 0 31 10 5 100 99 70 29 502 14 54.0 54.10 0 0 0 0 2 29 1 18.1% 42 45 83 57 54.4 53.1 56.5 54.7 0 0 15 100 96 71 32 18.1% 42 45 83 57 54.4 53.1 56.5 54.7 0 0 15 100 96 71 32 205) = 8.3 BU/A 3 3 3 0 1 0 1 0 15 100 96 71 32 105) = 8.3 BU/A 3 3 3 0 1<	GRANT	N M	41	Ю	49	52.7		0	0	0	0	13	9	89	67	30	19-Mav
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	55 28 47 90 55 52.0 51.0 55.5 52.8 0 0 0 10 99 70 29 30 50N 27 50 85 54 51.1 52.9 53.4 0 0 31 10 5 100 100 99 70 20 30 502 14 54.0 54.0 0 0 0 0 2 29 30 18.1% 42 45 83 57 54.4 53.1 56.5 54.7 0 0 15 100 96 71 32 18.1% 42 45 83 57 54.4 53.1 56.5 54.7 0 0 15 100 96 71 32 105) = 8.3 80/A 36 56.5 54.7 0 0 15 100 96 71 32 105) = 8.3 80/A 36 54.4 55.5 54.7 0 0 15 100 96 71 <td>2643</td> <td>5</td> <td>47</td> <td>83</td> <td>53</td> <td>52.7</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>9</td> <td>100</td> <td>100</td> <td>69</td> <td>28</td> <td>17-May</td>	2643	5	47	83	53	52.7		0	0	0	0	9	100	100	69	28	17-May
SON 27 50 85 54 51.152.9 56.2 53.4 0 0 31 10 5 100 68 30 502 14 14 54.0 54.0 0 0 0 2 2 29 18.1% 42 45 83 57 54.4 53.1 56.5 54.7 0 0 1 0 15 100 96 71 32 18.1% 13.1 50.5 54.4 53.1 56.5 54.7 0 0 1 0 15 100 96 71 32	SON 27 50 85 54 51.152.956.253.4 0 0 31 10 5 100 68 30 502 14 54.0 54.0 54.0 0 0 0 2 29 1 18.1% 42 45 83 57 54.4 53.1 56.5 54.7 0 0 1 0 15 100 96 71 32 18.1% 42 45 83 57 54.4 53.1 56.5 54.7 0 0 1 0 15 100 96 71 32 18.1% 42 45 83 57 54.4 53.1 56.5 54.7 0 0 1 0 15 100 96 71 32 2.05) = 8.3 BU/A 3 3 3 3 3 3 3 3 ATION: Graves County 5 54.4 5	FFR 555	28	47	8	55	51.0		0	0	0	0	10	10	8	2	29	18-Mav
02 14 14 54.0 54.0 0 0 0 0 2 2 29 17- 18.1% 42 45 83 57 54.4 53.1 56.5 54.7 0 0 1 0 15 100 96 71 32 3.05) = 8.3 BU/A	02 14 14 54.0 54.0 0 0 0 2 2 29 17- 18.1% 42 45 83 57 54.4 53.1 56.5 54.7 0 0 1 0 15 100 96 71 32 3.05) = 8.3 BU/A CATION: Graves County	JACKSON	27	20	8	24	52.9	ŝ	0	0	31	10	Ś	100	100	68	30	19-May
18.1% 42 45 83 57 54.4 53.1 56.5 54.7 0 0 1 0 15 100 96 71 J.05) = 8.3 BU/A	18.1% 42 45 83 57 54.4 53.1 56.5 54.7 0 0 1 0 15 100 96 71 2.05) = 8.3 BU/A CATION: Graves County	FFR 502	14			14	54.0	54.0	0	0	0	0	2			2	29	17-May
18.1% 13.1\% 13.1\%	18.1% 13.1% 19.1% 19.1% 19.1% 19.1% 19.1% 19.1% 19.1% 19.1% 19.1% 19.1% 19.1% 19.1% 19.1% 19.1% 19.1% 19.1% 19. 2.05) = 8.3 BU/A CATION: Graves County	MEAN	42	45	83	57	4 53.1	5 54	c	c	*	c	ţ	001	č	i	F	
LSD(0.05) = 8.3 BU/A	LSD(0.05) = 8.3 BU/A * LOCATION: Graves County	CV = 18.1%	!	2	}	i		2	2	>	-	5	<u>1</u>	3	0	τ	X	
		LSD(0.05) = 8.3 BU/	A															

WHEAT PERFORMANCE TRIALS FOR PURCHASE REGION*, 1994-1996. **TABLE 4**

WHEAT PERFORMANCE TRIALS FOR OHIO VALLEY REGION*, 1994-1996. **TABLE 5**

VARIETY	YIELD (1996 1995	1995	(BU/A	YIELD (BU/AC) 1996 1995 1994 MEAN	TE: 1996	TEST WT (LB/ 1996 1995 1994	(LB/BU) 1994 MEAN	PCT LODGED 1996 1995 1994 M	LODGED- 5 1994		PCT 1996 15	<u>ج جا</u>	SURVIVAL 995 1994 MEA	MEAN	PLANT HEIGHT (IN) 1996	HEADING DATE 1996
	2	ŝ			5 C J	C7 0 C7 7					27	•	0	ł		10-M-01
2510	8 3	2 0	2	6 %	- × C						1 6		6	: 4	7C	15-May
COKER 9663	53	5		33	59.3	Ş	59.3	0	.0	0	3 F			ň	37	16-May
HOPEWELL	63	46	<u>ب</u>	55	59.2	52.6	55.9				77	100		22	34	16-May
2540	63			63	57.8		57.8				28	~		28	34	16-May
VORIS 6040	62			62	56.8		56.8				45			45	35	11-May
FREEDOM	61	ŝ	1 84		57.8	52.4 55.	6 55.3				62		84	7	34	17-May
82W	61	24			58.4	54.2	56.3				45			74	34	11-May
AGRIPRO CLEMENS	60	55	5 92	69	59.2	58.5 55.	1 57.6				46	5 100	5	80	37	15-May
AGRIPRO SHILOH	60		~	61	58.7	54.7	56.7				Ň			9 9	33	16-May
JUSTICE	58			58	59.8		59.8				6			5	34	13-May
PATTERSON	58		10	56	59.5	55.9	57.7				41			7	34	11-May
GLORY	58	58	م	58	58.4	2	56.4				5	100		7	33	16-May
AGRIPRO ELKHART	57		_	59	59.4	60.1	59.8				ž			64	35	14-May
VORIS 6044	56			56	57.9		57.9				46			46	34	12-May
CLARK	56				57.5	56.5 53.					3	100	81	22	33	11-May
MAD I SON	55				59.1	52.0 55.	4 55.5				ž		86	R	35	15-May
2580	54		9 88		58.3	54.4 54.					Ň		6	۴	33	12-May
CARD I NAL	54				58.7	53.1 55.	4 55.7				5		£	63	37	17-May
PATRIOT	53			5 65	58.8	55.8 52.					ž		93	74	33	14 - May
2568	53			23	56.7		56.7				15			19	32	15-May
BECKER	52		1 88		57.4	53.4 53.0					S		91	72	31	17-May
FFR 523	51				58.5	51.2					21	100		61	28	12-May
VERNE	51	60	0 78		57.1	56.0 54.	5 55.9				*		8	68	36	16-May
DB 562W	50			50	57.4		57.4				54	.+		54	33	15-May
AGRIPRO MASON	49				56.0		56.0							<u>ۍ</u>	33	15-May
CALDWELL	48			9 52	58.7	52.6 56.					7 i	100	3 i	8 <u>5</u>	34	17-May
GRANT	48				56.6	51.9					Μ.		2	88 i	33	17-May
AGRIPRO FOSTER	45		1 78		55.5	54.4	7 54.5				N		80	2:	32	16-May
2628	4				57.2	55.5					- 3		80	8;	50	14-May
FFR 525	£3				55.1	58.4					= :		83	67	32	15-May
WAKEFIELD	£1			9 61	26.7	55.8					5.	200	52	66 !	55 5	20-May
FFR 555	42				57.9	52.2					- :		8	6	50	18-May
COKER 9543	38	22			57.6	51.9					- `	001 00	80	ະ:	29	16-May
JACKSON	38				4.70	7.55					-		ŝ	8 :	20	19-May
DB 494W	88				59.3						= ;		č	2 t	<u>31</u>	19-May
2684	37			76 61	60.3	57.8 54.	N					100	84	3	53	VaM-CI
ERNIE	33		56 7		54.9	56.7 53.	\sim				'	-	8	99 90	29	16-May
FEATHERSTONE	32				58.3									6	31	20-May
AGRIPRO HICKORY	ß			80 56	58.4							•	2	62	31	18-May
COKER 9803	23		62 6		58.6	55.2 5	ŝ				- '	-	8	63	27	20-May
2643	14			7 47	49.1	54.5 5	8 53.1					2 100	88	5	8	20-May
FFR 502	e			•								-		-	20	20-May
MEAN	8./		5 7	76 60	57 B	24 7 54 4	4 55 A	c	c	0	76	100	86	70	6 2	
MEAN rv = 20 0%							2	5	>		ŭ				ł	
LSD(0.05) = 10.7 BU/A																
* LOCATION: Davie	Daviess County	Inty									•					

VARIETY	<u>γ</u> 1996	ELD (1995	YIELD (BU/AC) 1996 1995 1994 M	() MEAN	TEST WT 1996 1995	(LB/BU) 1994 mean	PCT LODGED 1996 1995 1994 MEAN	LODGED	MEAN	PC 1996	CT SUR 1995	PCT SURVIVAL 1996 1995 1994 MEA	MEAN	PLANT HEIGHT (IN) 1996	HEADING DATE 1996
2510	81	60	76	72	57.1 57.9	58.7 57.9	0			86	100	100	95	34	19-May
2568	78			78	55.5		0	0	0	54			54	32	17-May
2552	17	47		62	58.2 58.3		0			63	100		8	34	18-May
AGRIPRO SHILOH	εI	6 29	i	57	56.8 57.3	:	0			92	100		88	۲ X	18-May
AGRIPRO CLEMENS	21	47	74	7 9	57.1 59.5	59.9	0 (8	001	100	5	37	18-May
GLORY	21	22	ł	29 97	57.6 58.5		- o			i o		00.	56	55	18-May
MAD I SON	2	20	£	5	57.0 58.6	58.1	0			8	100	100	<u>5</u>	<u>8</u> 1	18-May
2540	69			69	i		0			€ I			÷	<u>53</u>	19-May
HOPEWELL	69	44		56	55.8 56.4		0			78	100		89	35	19-May
FREEDOM	67	45	67	60	ŝ	58.2	0			60	100	100	87	34	19-May
COKER 9663	67			67	56.5		0			69			69	38	20-May
FFR 523	66	41		53	55.4 56.2		0			2	100		85	30	18-May
82W	66	47		56	55.4 57.5		0			74	100		87	34	17-May
JUSTICE	99				57.1		0			52			£	34	19-May
2628	65	₽	71		55.9 58.6	59.4	0			61	100	100	87	32	18-May
VERNE	64				58.3 57.9	58.8	0			86	100	100	35	37	18-May
AGRIPRO FOSTER	64				53.7 58.0	59.1	0			61	100	100	87	33	19-May
PATTERSON	64			52	54.7 58.7		0			68	100		84	35	16-May
2580	63				54.5 58.3	58.7	0			68	100	100	89	32	18-May
BECKER	62				53.7 56.8	56.8	0			69	100	100	60	32	19-May
WAKEFIELD	61		77		56.2 58.5	59.4 58.0	0			77	100	100	81	35	21-May
GRANT	59				57	58.7	0			02	100	100	90	32	19-May
AGRIPRO ELKHART	59	37		48	55.7 60.1		0			59	100		62	34	19-May
AGRIPRO MASON	59						0			55			55	34	18-May
2684	58	43	76		S CO	61.2	0			68	100	100	89	32	19-May
FFR 525	58				n	59.8	0			41	100	100	80	34	19-May
CLARK	57					58.1	0			58	100	100	86	34	16-May
PATRIOT	57	77	92		m	58.8	0			61	100	100	87	33	19-May
COKER 9543	56				Ś	59.7	0			59	100	100	86	32	18-May
FEATHERSTONE	55			55	55.2	55.2	0			31			31	33	19-May
FFR 555	54	45	80		53.6 57.3	59.5	0			34	100	100	78	31	20-May
DB 562W	52						0			36			36	33	20-May
AGRIPRO HICKORY	52	39	2			58.7	0			38	100	100	62	34	19-May
JACKSON	49					60.3	0			18	100	100	R	31	20-May
CARDINAL	48					59.2	0			40	100	100	80	36	21-May
COKER 9803	45	40			56.1 60.9	60.7	0			24	100	100	5	30	18-May
ERNIE	43					58.1	0			41	100	100	80	29	18-May
CALDWELL	32		58		54.2 56.7	59.5	0			18	100	100	R	32	21-May
2643	31			-	~	61.2	0			11	100	100	02	28	21-May
DR 494W	19			19	~	55.3	0			10			10	31	20-May
FFR 502	10			10	49.9	6.9.9	0			6			6	29	23-May
	I				1					1			;	;	
MEAN	58	44	20) 57	55.0 58.2	2 59.2 57.5	0	D	0	74 74	100	100	85	55	
CV = 19.1%															
	N/A														
* LOCATION: Lexin	Lexington, Spindletop	Spind	lletop	o farm											

The 1994, 1995 and 1996 tests at this location were treated with fungicides at the Feekes growth stages 8 and 10.5.

 TABLE 6
 WHEAT PERFORMANCE TRIALS FOR BLUEGRASS REGION*, 1994-1996.

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1994-1996.
TIER REGION*,
TIER
PERFORMANCE TRIALS FOR SOUTHERN
FOR
TRIALS
IANCE
PERFORM
WHEAT P
TABLE 7

VARIETY	YIELD (BU/AC) 1996 1995 1994 MEAN	ELD (1995	(BU/A) 1994	C) MEAN	TEST 1996 19	1995 1995	(LB/BU) 1994 MEAN	PCT LODGED- 1996 1995 1994	LODGED- 95 1994	MEA		PCT 1996 19	1995 15	PCT SURVIVAL 1996 1995 1994 MEAN	- N	PLANT HEIGHT (IN) 1996	HEADING DAIE 1996
2540	76			76	56.2		56.2	0	0	0	0	51			51	34	16-May
COKER 9663	72			22	58.7		58.7	0	0	0	0		:		34	39	18-May
AGRIPRO SHILOH	21	47	ł	5 26	56.8	53.2		0 0	0 0	0 0	- 0				53	55 55	10-May
AGRIPRO CLEMENS	5	49	92		58.4 57.4	~ ~	5.74 L.8	- -				1 r		001	<u>م</u> د	00 72	15-May
VUKIS DU4U 2510		5	23		 	5 8 5 5	α Γ	- c				•	100	100	. 6	25	18-Mav
AGRIPRO FIKHART	69	57	3		59.7	57.0	2	00	0	0	0	•			67	36	16-May
2568	65	5		65	55.5		55.5	0	0	0	0	41			41	33	15-May
JUSTICE	64			64	57.0		57.0	0	0	0	0	43			43	36	15-May
2552	64	60		62	57.3	55.1	56.2	0	0	0	0	84	8		74	33	17-May
82W	64	47			55.7	53.0		0	0	0	0	32			68	35	15-May
2628	64	48	88		58.4	54.5	58.7 57.2	0	0	0	0	53	8	100	92	33	16-May
VERNE	62	ß			57.7	54.0		-	0	4	5	58		8	26	39	17-May
MAD I SON	62	52		68	56.3	50.6		0	0	0	0	м М		00	82	81	17-May
HOPEWELL	62	44		23	57.0	53.2	55.1	0	0	0	0	9 i 8			89	51	ZU-May
PATTERSON	62	47		54	57.8	55.1	(0 0	0 0	0 0	0 0		88	0	81	8:	15-May
PATRIOT	61	51	92		2.72	54.1	60.2 57.5	- (5 0	- o			B	201	::	0,5	
VORIS 6044	61	i			57.2			0 0	0 0	0 0	0 0	4 r	ç	00	31	8 8 8	12 May
FFR 525	29	22			7.7 7.7	55.8 8	Ωr	- 0	- o	5 0	-	2 0		200	2 F	2 2	
COKER 9543	5	41	80 80		58.0	4. r	27.75 2.85	5 0	- c	- c		ວ ຕ			42	20	10-May
2684	5	ទ		. 63	56.9	55.1	50.7 57.6 57.5	- 0	- 0	- c	-	22	<u> </u>	nni	20	5	10-May
GLORY	5	58		2	1.95	2.46	2.44	- 0	-	-		00	201		36	20	
AGRIPRO MASON	ያ፤				7.4C	Р С 1	7.40	-	- c				001		З К	72	20-May
FREEDOM	71	÷.			40.4	22.5	1.20 0.00	- c	- c	- c		4 C	36		2 4	00	16-May
ERNIE	* i				0.70	4 C	2.00 0.00	- c	- c			<u>, t</u>	36		2 2	- P	20-May
CARDINAL	* u	9 F			n 9 7	1.41						2 9	35	80	208	ς Υ	14-Mav
ULAKK ACDIDDA EASTED	t [5.45	1.04	56.2 55.2		, o	, o	, o	2	88	80	24	3 23	20-May
CPANT COSICI	3.5	۲ %			55.6	48.7	56.3 53.5	0	0	0	. 0	16	18	100	26	34	17-May
	12				56.5	55.3	56.4 56.1	0	0	0	0	16	100	100	72	32	19-May
	5				58.2	56.1	i in	0	0	M	-	14	100	100	71	35	19-May
	5	5 12			54.5	54.6		0	0	0	0	23	100	100	74	31	19-May
	50			20	56.4			0	0	0	0	20			20	34	19-May
DB 494W	49			49	56.5		56.5	0	0	0	0	16			16	33	19-May
FEATHERSTONE	48			48	57.4			0	0	0	0	19			19	. 32	20-May
COKER 9803	47		5		57.9	54.6	58.1 56.9	0	0	0	0	5	100	100	22	30	18-May
AGRIPRO HICKORY	46				58.4	54.2		0	0	0	0	15	100	100	22	34	18-May
BECKER	43				54.3	53.4	57.6 55.1	0	0	0	0	21	100	100	74	31	10-May
WAKEFIELD	43				53.3	55.2		0	0	m	•	14	100	8	21	36	22-May
2580	42	5	88		55.7	53.6	58.6 56.0	0	0	0	0	20	<u>10</u>	00	で :	32	17-May
FFR 523	41				55.3	51.6	5	0	0	0	0	21	8		61	27	15-May
2643	20		83		53.0	53.7	59.6 55.4	0	0	0	0	ы С	100	100	68 0	<u>ی</u>	20-May
FFR 502	9			10	54.0	_	54.0	0	0	0	o	N			2	27	zu-may
MEAN	55	49	94	4 63	56.3	53.7	57.7 55.9	0	0	0	0	28	100	100	92	33	
~ 0	:																
~	(A		0004	1:00													
* LUCALION: PLINCE	Princeton, Limestone soit	r I lle:	stone	2011													

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The 1994, 1995 and 1996 tests at this location were treated with fungicides at the Feekes growth stages 8 and 10.5.

MTTERING FT <	SHILOH SHILOH CLEMENS CLEMENS		. 20 8 8		8.5		c								
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	V = 10.0%														

WHEAT PERFORMANCE TRIALS FOR SOUTHERN TIER REGION*, 1994-1996. **TABLE 7a**

SAU FI TA TA <thta< th=""> TA TA TA<</thta<>	II. 51 77.0 77	VARIETY	YI 1996	YIELD (BU/AC) 1996 1995 1994 MEAN	3U/AC) 16AN	TEST WT 1996 1995	(LB/BU) 1994 MEAN	PCT LODGED 1996 1995 1994	LODGE 95 199	PCT LODGED 1995 1994 MEAN		PCT SURVIVAL 1996 1995 1994	SURVI 95 19	RVIVAL 1994 MEAN	PLANT HEIGHT 1996	(IN)
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0 FOSTER 40 59 56.0 56.6 57.3 56.6 0 0 0 58 100 83 80 5 40 55 91 62 56.0 58.0 56.5 56.8 0 0 0 0 58 73 9803 39 56 65 53 55.0 58.4 57.5 57.0 0 0 0 45 70 26 57 8810NE 38 57.0 55.0 55.1 55.1 55.0 0 0 0 0 45 77 45 57.0 55.1 57.0 0 0 0 0 45 73 58 <t< td=""><td>0 FOSTER 40 59 80 55 55.0 56.6 57.3 56.6 0 0 0 0 58 100 83 80 5 40 55 91 62 56.0 58.0 56.5 56.8 0 0 0 0 57 57 58 57 57 58 57 57 58 57</td><td>GRANT</td><td>40</td><td></td><td>78</td><td>52</td><td></td><td>55.2</td><td>0</td><td>0</td><td></td><td>_</td><td>•</td><td>8</td><td>61</td><td></td><td></td></t<>	0 FOSTER 40 59 80 55 55.0 56.6 57.3 56.6 0 0 0 0 58 100 83 80 5 40 55 91 62 56.0 58.0 56.5 56.8 0 0 0 0 57 57 58 57 57 58 57 57 58 57	GRANT	40		78	52		55.2	0	0		_	•	8	61		
5 4.0 55 91 6.2 56.0 58.0 568 0 0 8 3 35 100 85 73 9803 39 56 65 53 55.0 58.4 57.5 57.0 0 0 0 45 700 85 73 RSTONE 38 77 54 57.0 55.0 0 0 0 0 45 700 85 73 1L 31 36 71 46 55.0 55.1 55.2 0 0 0 0 45 700 85 73 1L 31 36 71 46 55.0 55.1 55.2 57.0 0 0 0 0 45 57.0 25 57.0 25	5 4.0 55 91 6.2 56.0 58.0 568 0 0 0 8 3 35 100 85 73 9803 39 56 65 53 55.0 58.4 57.5 57.0 0 0 0 45 77 54 57.0 55.0 0 0 0 45 700 85 73 1L 31 36 71 46 55.0 55.1 55.2 0 0 0 0 45 73 58 73 1L 31 36 71 46 55.0 55.1 57.0 0 0 0 0 45 73 58 1 31 56 97 61 57.0 57.0 0 0 0 0 25 <	AGRIPRO FOSTER	40		80	59		57.3	0	0		_	•	8	83		
9803 39 56 65 53 55.0 58.4 57.5 57.0 0 0 45 100 26 57 RSTONE 38 77 54 57.0 55.0 0 0 0 0 45 45 31 36 77 54 57.0 55.1 55.2 0 0 0 0 45 45 31 36 71 46 55.0 57.0 0 0 0 0 34 100 86 73 31 37 57 57.0 57.1 57.0 0 0 0 0 36 73 58 73 58 73 58 73 58 73 58 73 58 73 58 73 58 73 58 73 58 73 58 73 58 73 58 73 58 73 58 73 58 73 58 73 58 73 58 58 58 58 58	9803 39 56 65 53 55.0 58.4 57.0 0 0 0 45 100 26 57 RSTONE 38 77 54 57.0 55.0 0 0 0 0 45 45 31 36 77 54 57.0 55.1 55.2 0 0 0 0 45 45 31 36 71 46 55.0 55.1 57.2 0 0 0 0 34 100 86 73 31 31 56 97 61 57.0 57.1 0 0 0 0 25 25 25 30 56 97 61 57.0 57.1 0 0 0 28 100 78 68 23 53 84 53 57.1 0 0 0 0 26 100 78 68 68 68 68 68 68 68 55.0 16 16 16	FFR 525	40		2	62		56.5	0	0			22	00	85		
RSTONE 38 55.0 55.0 0 0 0 45 45 36 48 77 54 57.0 55.1 55.4 56.0 0 0 0 34 100 86 73 11 31 36 71 46 57.0 55.1 55.2 55.1 55.2 57.0 34 100 86 73 11 31 57.0 57.0 57.1 55.1 55.2 57.0 0 0 0 23 100 43 58 11 31 57.0 57.0 57.4 57.3 0 0 0 25 25 25 12 31 57.0 57.0 57.4 57.3 0 0 26 100 43 58 13 53 57.0 56.1 55.0 0 0 0 26 100 78 68 16 16 55.0 55.0 0 0 0 0 16 16 16 16	RSTONE 38 55.0 0 0 0 0 45 45 36 48 77 54 57.0 55.1 55.2 55.1 55.2 55.1 55.2 67 45 31 36 71 46 55.0 55.1 55.2 57.0 0 0 0 34 100 86 73 31 31 57.0 57.0 57.1 55.1 55.2 57.0 0 0 0 23 58 73 57.0 25 26 16 16 <td< td=""><td>COKER 9803</td><td>39</td><td></td><td>65</td><td>53</td><td></td><td>57.5</td><td>0</td><td>0</td><td></td><td>~</td><td>Ωţ</td><td>8</td><td>26</td><td></td><td></td></td<>	COKER 9803	39		65	53		57.5	0	0		~	Ωţ	8	26		
11 36 48 77 54 57.0 55.7 55.4 56.0 0 0 0 34 100 86 73 11 31 36 71 46 55.0 55.1 55.2 0 0 0 0 36 77 54 100 86 73 11 31 57.0 57.0 57.0 0 0 0 0 36 73 58 73 58 73 58 73 58 75 26 26 100 78<	11 36 48 77 54 57.0 55.1 55.2 0 0 0 34 100 86 73 11 31 36 71 46 55.0 55.1 55.2 0 0 0 0 0 34 100 86 73 11 31 57.0 57.0 57.0 0 0 0 30 34 100 86 73 13 57.0 57.0 57.0 0 0 0 0 25 25 25 14 53 57.0 57.1 0 0 0 28 100 86 73 15 16 16 55.0 55.1 55.1 0 0 26 10 78 68 16 16 55.0 55.0 55.0 0 0 0 16 16 16 55.0 55.0 0 0 0 0 0 16 16 15 8.0 8.0 0 <td>FEATHERSTONE</td> <td>38</td> <td></td> <td></td> <td>38</td> <td></td> <td></td> <td>0</td> <td>Þ</td> <td></td> <td>_</td> <td>6</td> <td></td> <td></td> <td></td> <td></td>	FEATHERSTONE	38			38			0	Þ		_	6				
IL 31 36 71 46 55.0 55.1 55.2 0 0 0 0 30 100 43 58 N 31 57.0 57.0 57.0 0 0 0 25 25 N 30 56 97 61 57.0 57.4 57.3 0 0 0 25 25 25 N 23 53 57.0 57.6 57.4 57.3 0 0 0 28 100 80 69 N 23 53 57.0 56.1 58.3 57.1 0 0 0 26 100 78 68 16 16 16 55.0 55.0 0 0 0 0 16	IL 31 36 71 46 55.0 55.1 55.2 0 0 0 0 30 100 43 58 W 31 57.0 57.0 0 0 0 0 25 25 25 N 30 56 97 61 57.0 57.0 0 0 0 23 23 23 25 26 26 100 78 68 68 26 26 100 78 26 26 16	ERNIE	36		77	54	55.	55.4	0	0		~	34	00	86		
31 31 57.0 57.0 0 0 0 25 25 25 30 56 97 61 57.0 57.4 57.3 0 0 0 0 28 100 80 69 23 53 84 53 57.0 56.1 58.3 57.1 0 0 0 28 100 78 68 16 16 55.0 55.0 55.0 0 16 16 16 45 51 84 60 56.1 56.1 56.4 56.2 0 0 0 7 0 7 58 100 72 76 33 = 8.0 BU/A	31 57.0 57.0 25 25 25 30 56 97 61 57.0 57.4 57.3 0 0 0 28 100 80 69 23 53 84 53 57.0 56.1 58.3 57.1 0 0 0 28 100 78 68 16 16 55.0 55.1 58.3 57.1 0 0 1 26 100 78 68 45 51 84 60 56.1 56.1 56.4 56.2 0 0 0 7 16 16 16	CALDWELL	31		12	46	55.	55.1	0	0		~	02	00	43		
30 56 97 61 57.057.657.457.3 0 0 0 28 100 80 69 23 53 84 53 57.056.158.357.1 0 0 0 26 100 78 68 16 16 55.0 55.0 55.0 0 1 16 16 45 51 84 60 56.156.156.456.2 0 0 0 70 78 100 72 76 .8%	30 56 97 61 57.057.657.457.3 0 0 0 28 100 80 69 23 53 84 53 57.056.158.357.1 0 0 0 26 100 78 68 16 16 55.0 55.0 55.0 0 16 16 16 45 51 84 60 56.156.156.456.2 0 0 0 70 78 78 5) = 8.0 BU/A 10N: Breckinridae County	DB 494W	31			31	57.0	57.0	0	0		~	22				
23 53 84 53 57.0 56.1 58.3 57.1 0 0 0 0 26 100 78 68 502 16 16 55.0 55.0 0 0 0 0 16 16 15.8% 15.8%	23 53 57.0 56.1 58.3 57.1 0 0 26 100 78 68 502 16 55.0 55.0 55.0 0 0 0 16 16 16 15.8% 45 51 84 60 56.1 56.4 56.2 0 0 0 16 16 16 16 15 15 15 88 16 15 35 10 72 76 15 36.5 36.1 56.1 56.4 56.2 0 0 0 0 72 76 15.8% 3.05 8.0 BU/A 58 100 72 76 3.05 5 8.0 BU/A 58 100 72 76 3.05 8.0 BU/A 56.1 56.4 56.2 0 0 0 0 76 76 3.05 5 8.0 BU/A 58 100 72 76 3.05 16 0 0 0 0 <td< td=""><td>JACKSON</td><td>30</td><td></td><td>26</td><td>61</td><td>57.</td><td>57.4</td><td>0</td><td>0</td><td></td><td>~</td><td>58 58</td><td>00</td><td>80</td><td></td><td></td></td<>	JACKSON	30		26	61	57.	57.4	0	0		~	58 58	00	80		
02 16 16 55.0 55.0 0 0 0 0 16 16 16 45 51 84 60 56.1 56.1 56.4 56.2 0 0 0 0 58 100 72 76 15.8% 1.05) = 8.0 BU/A	502 16 16 55.0 55.0 0 0 0 16 16 16 45 51 84 60 56.1 56.1 56.4 56.2 0 0 0 0 58 100 72 76 15.8% 15.8% 15.8% 15.8% 15.8% 15.8%	2643	23		84	23	56.	58.3	0	0		~	592	00	78		
45 51 84 60 56.156.156.456.2 0 0 0 0 58 100 72 76 15.8% 1.05) = 8.0 BU/A	45 51 84 60 56.1 56.1 56.4 56.2 0 0 0 0 58 100 72 76 15.8% 0.05) = 8.0 BU/A 24TION: Breckinnidae County	FFR 502	16			16	55.0	55.0	0	0		~	16			16 29	
15.8% 1.05) = 8.0 BU/A	15.8% 3.05) = 8.0 BU/A ArtioN: Breckinnidae County	MEAN	45		84	60	.1 56	56.4 56.	0	0	0	~	58	00	72		
. 11	ал 11 г.	CV = 15.8%															
		ш	N/A														

WHEAT PERFORMANCE TRIALS FOR NORTH CENTRAL REGION*, 1994-1996. **TABLE 8**

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ATINGS
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- DISE/
TABLE 9

	LEAF Duct ³		GLUME	POWDERY	LICCM114
VARIETY ²	RUST	BLOTCH	BLOTCH	MILDEW	- AMSSMA
CALDWELL	S	SV	SV	NS	s
PATTERSON	SV	S	SM	:	:
VERNE	SV	S	S	SM	œ
CARDINAL	SV	SV	S	SV	s
CLARK	۸S	SV	SV	s	~
BECKER	SV	SV	SV	SV	~
MAD I SON	۸S	S	SW	SM	Α
WAKEFIELD	SN	S	S	SM	s
FREEDOM	~	SW	SW	SM	W
JACKSON	SV	MR	:	Å	S
GRANT	MR	S	SM	S	:
ERNIE	SN	s	S	:	:
PATRIOT	æ	s	S	:	:
LIBERTY	œ	S	W	;	;
2510	S	SM	W	N	MR
2552	SV	VS	æ	:	:
2684	W	æ	æ	M	M
2643	æ	s	W	:	;
2628	SV	SV	Æ	:	;
2580	W	s	s	s	SV
	s	s	SM	SV	S
AGRIPRO CLEMENS	M	SV	MR	:	:
AGRIPRO HICKORY	MR	s	SM	:	:
AGRIPRO SHILOH	œ	W	SM		:
AGRIPRO ELKHART	MR	s	Æ	;	:
AGRIPRO FOSTER	s	Æ	SW	ж Ж	:
M 06	SV	SM	SM	:	;
82W	SV	SW	SH	:	:
FFR 555W	SV	SV	S	W	W
FFR 568W	s	S	S	Æ	SW
FR 523W	æ	S	Æ	:	:
FFR 525	SV	Æ	Æ	:	:
COKER 9803	s	s	Æ	¥	S
COKER 9543	W	SN	S	s	W
COKER 9474	æ	S	S	SN	S
VI GORO 934	NS	s	WS	:	;
VIGORO 941	M	s	SM SM	:	:
VIGORO EXPT. 951	S	s	W	:	:
DB 941	SV	s	W	:	:
DB 494	W	N	s	:	:
GLORY	SV	s	W	:	:
	Me	VC	v	;	:

¹VS=VERY SUSCEPTIBLE; R=RESISTANT; MR=MODERATELY RESISTANT; S=SUSCEPTIBLE; MS=MODERATELY SUSCEPTIBLE; (--)=INSUFFICIENT OPPORTUNITY TO RATE IN PRESENCE OF DISEASE. In general, varieties with a VS or S reaction to a given disease will not perform well if that disease becomes severe, while varieties rated R or MR will perform well in those situations. Varieties with an MS reaction will have an intermediate response. ²Ratings of newly released varieties based on 1 yr. and 1 location. ³Based on disease progress and final disease level. ⁴Wheat spindle streak mosaic virus. ⁵Disease pressure was not sufficient in 1996 to make ratings. Data shown on the table are the 1995 ratings.

IN 1996.
TESTED
ARIETIES
RLEY
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TABLE 10

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VADICTV	BBOTECTED ³	Collare	RELEASE	VIELD	TEST NEIGHT	LODGING	PLANT HEIGHT	SURVIVAL	HEADING
		SUURCE	DAIE	(BU/AC)	(LB/BU)	(2)	(IN.)	(%)	DATE
WY SOR	NO	VIRGINIA	1985	70.9	44.4	0.0	33.5	26.3	04-Mav
STARLING	YES	VIRGINIA	1993	66.5	44.2	0.0	34.0	16.9	07-Mav
CALAO	YES	VIRGINIA	1994	61.6	47.2	0.0	24.4	12.6	04-Mav
PIKE	YES	INDIANA	1975	58.3	45.1	0.0	30.0	10	03-Mav
INIMON	YES	VIRGINIA	1992	44.6	43.6	0.0	31.4	2.0	05-Mav
PAMUNKEY	YES	VIRGINIA	1993	40.3	43.5	0.0	20.4	4.1	08-May
BARSOY		KENTUCKY	1966	30.6	44.8	0.0	28.5	6.6	30-Apr
MEAN = 53.3 BU/A CV = 16.8%									
LSD(0.05) = 7.5 BU/	V.								

¹The CV is a measure of experimental error. The lower the CV the more reliable the results. ²The LSD (Least Significant Difference) is the minimum difference required for two varieties to be significantly different from one another. ³"Unauthorized propagation prohibited". Seed of these varieties must be sold by variety name only as a class of certified seed. This includes varieties for which protection has been applied and those for which protection has been granted.

VARIETY	γιί 1995	YIELD (BU/AC) 1995 1994 1993 MEAN	1/AC)-	tean	TEST W 1995 19	TEST WT (LB/BU) 1995 1994 1993 MEAN	PCT LODGED 1995 1994 1993 MEAN	L00G	ED	- AN	PCT SURVIVAL 1995 1994 1993 MEAN	SURV 1994	1993 I	MEAN	PLANT HEIGHT (IN) 1995	HEADING DATE 1995
STARLING	69	116	98	64	38.8 48	1.0 44.1 43.6	м	0	89	30	100	100	100	100	31	24-Apr
PIKE	99	100	76	80	40.0 51	.0 45.4 45.5	-	Ś	35	54	100	10	100	100	28	22-Apr
UYSOR	65	108	93	89	41.2.48	3.7 45.4 45.1	14		89	35	100	100	100	100	32	24-Apr
PAMUNKEY	61	105	98	88	44 8 49	7.7 48.6 47.7		0	74	26	100	100	100	100	32	21-Apr
SCHOCHOH	59	8	69	76	40-9 49	7.7 47.6 46.1	20	0	5	54	100	100	100	100	28	22-Apr
CALLAO	58	<u> </u>		11	45.4 51	1.4 48.4		m	0	80	100	100		100	24	18-Apr
INIMON	26		98	1	39.2	45.0 42.1			85	45	100		100	100	33	23-Apr
BARSOY	53	102	84	80	40.9 52	40.9 52.5 48.2 47.2	1	0	89	33	100	100	100	100	27	21-Apr
MEAN 61 103 88 83 41.450 CV = 8.23% LSD(0.05) = 6.1 BU/A * LOCATION: Lexington The 1996 test was not harvested due to winterkill	61 8U/A ngton s not he	103 arvesto	ed due	83 e to wi	41.4 50 nterkill.	.4 50.1 46.6 45.7 kill.	24.1	-	2	36	100	100	100	100	6 2	

BARLEY PERFORMANCE TRIALS FOR BLUEGRASS REGION*, 1993-1995. **TABLE 11**

TABLE 12 BARLEY PERFORMANCE TRIALS FOR SOUTHERN TIER REGION*, 1994-1996.	BARL	EY]	PERI	ORN	IANCI	E TR	IALS F	OR SO	UTH	ERN	TIE	R RE	GIG	N,	1994	-1996.	
VARIETY	<u>/1</u> 1996	ELD (YIELD (BU/AC) 1996 1995 1994 MEAN	EAN	TEST 1996 1	285 C	TEST WT (LB/BU) 1996 1995 1994 MEAN	PCT LODGED 1996 1995 1994 MEAN	T LOD	36 ME	: N	PCT SURVIVAL	SURV 1995	PCT SURVIVAL	EAN	PLANT HEIGHT (IN) 1996	HEADING DATE 1996
WYSOR STARLING CALAO CALAO PIKE NOMINI PAMUNKEY BARSOY MEAN CV = 20.1% LSD(0.05) = 10 * LOCATION: P	68 88 105 8 62 79 100 8 53 69 100 7 41 76 107 6 31 80 100 7 31 80 100 7 31 80 100 7 18 57 108 6 45 71 103 7 45 71 103 7 10.7 BU/A Princeton, Limestone soil	88 79 69 69 76 76 71 71 71 71	105 100 100 107 107 108 108 103 cone so	⁵¹ 31 5.758,528	42.4 45.3 57.1 4 43.0 43.8 57.5 4 45.4 48.2 56.4 5 45.6 45.1 58.7 4 42.0 45.5 5 38.1 48.6 57.9 4 44.8 45.1 58.7 4 44.8 45.1 58.7 4 43.2 45.9 57.7 4	ດດີດ ເຊີຍ ເຊີຍ ເຊີຍ ເຊີຍ ເຊີຍ ເຊີຍ ເຊີຍ ເຊີຍ	42.4 45.3 57.1 48.3 43.0 43.8 57.5 48.1 46.4 48.2 56.4 50.3 45.6 45.1 58.7 49.8 42.0 45.5 43.8 43.8 38.1 48.6 57.9 48.2 44.8 45.1 58.7 49.5 44.8 45.1 58.7 48.9			0000000 0	000000 0	о иилаат 1000 000 0	5555555 5	8888 88 8 8888 88 8	2 5538834	882858588	11-487 11-487 07-487 01-487 11-487 08-487 08-487

TABLE 12a BARLEY PERFORMANCE TRIALS FOR SOUTHERN TIER REGION [*] , 1994-1996.	BARI	ΈY	PEI	LFOR	MANC	E TR	UALS F	OR SO	HTU	IER	V THER	REC	lOI	i*, 19	94-1996.	
VARIETY	9661 1996	32 (YIELD (BU/AC) 1996 1995 1994 MEAN) MEAN	TEST 1996 1	MT (LE	TEST WT (LB/BU) 1996 1995 1994 MEAN	PCT LODGED 1996 1995 1994 MEAN	PCT LODGED			PCT SURVIVAL	IRVI VA	L	PLANT HEIGHT (IN) 1996	HEADING DATE 1996
WYSOR PIKE STARLING CALAO PAMUNKEY NOMINI BARSOY	777 777 777 777 777 777 777 777 777 77	87 63 101 95 67	111 121 125 113 113	8886868	442 442 442 442 442 442 442 442 442 442	2 2 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5	46.4 44.5 45.5 45.5 44.6 42.4 48.5 45.2 45.3 40.3 44.1 43.2 48.0 46.0 42.1 45.4 48.9 46.5 47.6 47.7 45.2 44.9 45.1 44.8 44.8 50.2 46.6	0000000	\$0\$2-60	won400+	NONEONO	1 9 6 100 1 9 6 100 1 9 100 1 9 100 1 000 1 0000 1 000 1 0000 1000 1 0000 1000 1000 10000 10000 1000000 10000 10000 10000 1000	<u> </u>	*****	*****	04 - Hay 064 - Hay 064 - Hay 064 - Hay 065 - Hay 30 - Apr
MEAN 61 87 CV = 14.4% 61 87 LSD(0.05) = 11.0 BU/A * LOCATION: Christian county	61 BU/A stian col	61 87 county	116	8	46.2 4	4.2 46	46.2 44.2 46.3 45.6	C	52	ۍ ۲	0	18 100	86	8	32	

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