

## Small Grain Demonstration Plots

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### Materials and Methods

Five barley varieties and nine oat varieties were included in the 2006 small grain demonstration plots at Kanawha. Each variety was sown in three different plots to average out the effects of soil variability. The varieties were planted April 12 with the barley seeded at a rate of 2 bushels/acre and the oats seeded at a rate of 3 bushels/acre. All plots were harvested on July 24.

### Results and Discussion

Barley yields averaged 86.6 bushels/acre in 2006 (Table 1). Conrad had the highest test weight for the lines that were tested in 2006.

Oat yields for the demonstration averaged 121.2 bushels/acre. Woodburn had the highest oat yield and Spurs had the highest test weight (Table 2).

Additional information on barley variety tests in the state can be found in the publication, "Iowa Crop Performance Tests—Oat and Barley, 2006," which is available from county extension offices (Pm-1645) and at [www.public.iastate.edu/~jjannink/](http://www.public.iastate.edu/~jjannink/).

**Table 1. Performance of spring barley varieties tested at Kanawha in 2006.**

Variety	Yield <sup>1</sup> (bu/A)	Test weight <sup>2</sup> (lb/bu)	Moisture (%)	Number of rows
CDC Clyde	90.7	47.2	11.3	6
Conrad	86.4	48.4	11.9	2
Excel	86.3	46.3	11.1	6
Stark	90.9	47.4	11.5	2
Steller	79.0	44.8	10.9	6
Average	86.6	46.8	11.4	
LSD (0.05) <sup>2</sup>	12.8	1.3	0.7	

<sup>1</sup>Grain yields are based on 48 lb/bushel test weight.

<sup>2</sup>LSD=least significant difference. When entries differ by an amount equal to one LSD or more, they are considered to be in different classes with 95% certainty.

**Table 2. Performance of oat varieties tested at Kanawha in 2006.**

Variety	Yield <sup>1</sup> bu/A	Test weight <sup>2</sup> (lbs/bu)	Moisture %
Baker	117.0	32.7	10.6
Blaze	110.5	34.0	10.5
Brawn	129.8	30.9	10.5
Esker	118.3	32.2	10.0
Kame	118.4	32.3	10.3
Killdeer	124.9	34.0	11.0
Spurs	122.0	34.9	10.3
Winona	116.9	33.7	10.0
Woodburn	133.2	34.0	10.9
Average	121.2	33.2	10.4
LSD (0.05) <sup>2</sup>	14.9	1.3	1.2

<sup>1</sup>Grain yields are based on 32 lb/bushel test weight.

<sup>2</sup>LSD=least significant difference. When entries differ by an amount equal to one LSD or more, they are considered to be in different classes with 95% certainty.