

## Barley Variety Test

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long-term average (Table 1). Excel was the highest-yielding line based on the long-term average, while Stander had the highest test weight across all locations for the lines that were tested in 2004.

### Materials and Methods

Sixteen varieties were included in the 2004 barley variety test at Nashua. Each variety was sown in three different plots to average the effects of soil variability. The varieties were planted on April 2 at a rate of 2 bushels/acre. All barley plots were harvested on July 27.

Additional information on barley variety tests in the state can be found in the publication, "Iowa Crop Performance Tests—Oat, 1997–2004 and Barley, 1998–2004," which is available from county extension offices (Pm-1645) and at [www.public.iastate.edu/~jjannink/](http://www.public.iastate.edu/~jjannink/).

### Results

Barley yields averaged 74.8 bushels/acre in 2004, which is 3.3 bushels/acre less than the

**Table 1. Performance of spring barley varieties tested at Nashua in 2004.**

Variety	Yield <sup>1</sup>				
	2004	Long-term avg.	Test weight <sup>2</sup> (lb/bu)	Heading date <sup>3</sup> (June)	Plant height <sup>4</sup> (in.)
Azure	73.9	78.0	46.3	7.3	33.2
Bowers	76.1	80.3	46.0	8.0	32.6
Conlon	76.9	82.4	49.6	7.0	30.9
Drummond	76.8	78.6	48.0	8.3	32.2
Excel	77.3	85.1	48.7	8.0	32.2
Foster	70.9	78.5	46.7	7.6	33.1
Hazen	74.9	84.3	46.8	8.3	33.3
Kewaunee	77.4	83.8	49.0	7.6	32.2
Lacey	78.6	83.5	48.4	8.9	33.1
Legacy	73.1	79.7	50.2	8.6	31.9
Logan	75.1	78.1	47.2	3.2	32.7
PrimusII	76.1	80.4	49.4	8.0	33.8
Robust	70.2	74.0	47.6	8.6	26.9
Royal	70.3	75.1	48.2	7.6	31.3
Stander	76.7	81.4	50.3	9.9	32.9
Stark	72.6	77.3	48.9	8.0	32.7
Average	74.8	78.1	48.2	7.8	32.2
LSD(0.05) <sup>5</sup>	6.8	8.3	1.8	1.3	2.3

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

<sup>2</sup> Test weight – average from two sites.

<sup>3</sup> Data collected at Ames only.

<sup>4</sup> Height – measured at Ames.

<sup>5</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.