

## Barley Variety Test

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### Materials and Methods

Twenty varieties were included in the 2001 barley test at Nashua, Iowa. Each variety was sown in three different plots in order to average soil variability effects. The varieties were planted April 20, 2001, at a rate of two bushels/acre. All barley plots were harvested on July 26.

### Results.

Barley yields averaged 96.1 bushels/acre in 2001, which is 28 bushels/acre more than in 2000 (Table 1). Excel and Kewaunee were the highest yielding lines based on three years of data (1999–2001) while MNBrite had the highest test weight across all locations for the three-year period.

Additional information on barley variety tests in the state can be found in the publication, "Iowa Crop Performance Tests—Oat and Barley, 1998–2001," available from county extension offices (Pm-1645).

**Table 1. Performance of spring barley varieties tested at Nashua, IA from 1999–2001.**

Variety	Yield <sup>1</sup>				Test weight <sup>2</sup> (lbs/bu)	Heading date <sup>3</sup> (June)	Plant height <sup>4</sup> (in.)	Straw yield <sup>5</sup> (T/A)	1999 lodging %
	1999	2000	2001	3-yr avg					
Azure	79.0	70.2	104.0	84.4	55.6	9	35.8	3.1	4
Bonanza	80.6	76.3	87.3	81.4	55.9	12	29.0	2.4	10
Bowers	75.5	60.6	96.5	77.5	55.8	11	32.8	2.5	7
Chilten	64.0	50.5	96.3	70.3	58.2	10	35.7	2.3	3
Conlon	-	-	101.0	-	59.6	8	35.6	2.6	-
Drummond	-	-	95.8	-	57.1	10	34.5	2.1	-
Excel	92.4	77.6	110.4	93.5	57.9	11	36.7	2.4	3
Finaska	-	-	69.6	-	50.6	10	34.9	2.0	-
Hazen	73.7	74.7	99.5	82.6	56.3	12	35.7	2.8	1
Kewaunee	90.2	74.5	110.0	91.5	56.5	11	32.5	3.1	-
Lacey	-	-	100.0	-	58.3	11	37.9	2.7	-
Legacy	-	-	101.3	-	55.7	13	33.2	2.5	-
MNBrite	77.1	76.7	91.1	81.6	57.7	11	36.6	3.5	-
Mahigan	-	-	89.3	-	54.3	9	32.9	1.9	-
PrimusII	74.7	69.2	90.8	78.2	56.7	7	35.0	2.1	13
Robust	74.1	72.0	95.5	80.5	58.3	11	38.3	2.6	2
Royal	77.8	56.7	97.6	77.4	55.9	11	35.0	2.3	2
Seebe	-	-	88.1	-	56.9	19	35.3	3.4	-
Stander	76.0	58.0	95.8	76.6	56.3	12	35.3	2.4	0
Vivar	-	-	103.0	-	55.1	14	32.9	2.8	-
Average	77.7	68.1	96.1	81.3	56.4	11	34.8	2.6	5
LSD(0.05) <sup>6</sup>	16.1	13.7	10.0	10.1	0.5	1.0	4.7	0.9	6

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

<sup>2</sup> Test weight – average from 3 sites.

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

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

<sup>5</sup> Straw yield – average from 3 sites.

<sup>6</sup> LSD = Least significant difference. When entries differ by an amount equal to one LSD or more, they are considered with 95% certainty to be in different classes.