

## Barley Variety Test

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### Materials and Methods

Fourteen varieties were included in the 2006 barley variety test at Sutherland. Each variety was sown in three different plots to average the effects of soil variability. The varieties were planted April 11 at a rate of 2 bushels/acre. All barley plots were harvested on July 24.

### Results and Discussion

Barley yields averaged 60 bushels/acre in 2006, which is 17 bushels/acre lower than the long-term average (Table 1). Excel and Conrad were the highest yielding lines based on the long-term average while Conlon had the highest test weight across all locations for the lines that were tested in 2006.

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 Sutherland in 2006.**

Variety	Yield <sup>1</sup>		Test weight <sup>2</sup> (lb/bu)	Heading date <sup>3</sup> (May)	Plant height <sup>4</sup> (in.)	Number of rows
	2006	Long-term avg				
CDC Clyde	54	81	48.4	5	29.2	6
Conlon	49	74	49.5	5	28.8	2
Conrad	66	83	49.2	17	25.5	2
Drummond	64	78	47.2	6	29.8	6
Excel	61	83	47.4	5	27.3	6
Kewaunee	59	74	45.7	6	31.5	6
Lacey	56	82	48.2	6	29.2	6
Legacy	60	78	46.8	8	30.3	6
Logan	58	76	48.7	8	30.3	2
Rawson	58	78	47.4	5	30.5	2
Robust	56	80	47.5	6	30.8	6
Stark	58	78	48.8	14	30.2	2
Steller	62	81	46.3	6	29.4	6
Tradition	55	76	47.2	8	30.5	6
Average	60	77	47.8	7	29.3	
LSD(0.05) <sup>5</sup>	18	9	1.2	3	2.0	

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

<sup>2</sup>Test weight are averages from three sites.

<sup>3</sup>Data collected at Ames only recorded as date after May 1.

<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.