

Barley Variety Test

Ron Skrdla, ag research specialist
Jean-Luc Jannink, assistant professor
Department of Agronomy

Materials and Methods

Sixteen varieties were included in the 2006 barley variety test at Nashua. Each variety was sown in three different plots to average out the effects of soil variability. The varieties were planted March 29 at a rate of 2 bushels/acre. All barley plots were harvested on July 25.

Results and Discussion

Barley yields averaged 59 bushels/acre in 2006, which is 17 bushels/acre less than the long-term average (Table 1). Excel was the highest yielding line based on the long-term average. 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/.

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

Variety	Yield ¹					
	2006	Long-term avg	Test weight ² (lb/bu)	Heading date ³ (June)	Plant height ⁴ (in.)	Number of rows
CDC Clyde	60	81	48.4	5	29.2	6
Conlon	58	79	49.5	5	28.8	2
Conrad	58	81	49.2	17	25.5	2
Drummond	59	77	47.2	6	29.8	6
Excel	59	82	47.4	5	27.3	6
Kewaunee	59	80	45.7	6	31.5	6
Lacey	59	79	48.2	6	29.2	6
Legacy	59	80	46.8	8	30.3	6
Logan	57	75	48.7	8	30.3	2
Rawson	59	78	47.4	5	30.5	2
Robust	59	77	47.5	6	30.8	6
Stark	59	80	48.8	14	30.2	2
Steller	59	78	46.3	6	29.4	6
Tradition	58	73	47.2	8	30.5	6
Average	59	76	47.8	7	29.3	
LSD(0.05) ⁵	5	8	1.2	3	2.0	

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

²Test weight—average from three sites.

³Data collected at Ames only recorded as date after June 1.

⁴Height—measured at Ames.

⁵LSD=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.