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Barley Variety Test

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Abstract

Sixteen varieties were included in the 2005 barley test at Sutherland. Each variety was sown in three different plots to average the effects of soil variability. The varieties were planted on March 29 at a rate of 2 bushels/acre. All barley plots were harvested on July 11.

Keywords

Agronomy

Disciplines

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Barley Variety Test

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long-term average (Table 1). Lacey was the highest-yielding line based on the long-term average while Conlon had the highest test weight across all locations for the lines tested in 2005.

Materials and Methods

Sixteen varieties were included in the 2005 barley test at Sutherland. Each variety was sown in three different plots to average the effects of soil variability. The varieties were planted on March 29 at a rate of 2 bushels/acre. All barley plots were harvested on July 11.

Additional information on barley variety tests in the state can be found in the publication, "Iowa Crop Performance Tests—Oat and Barley, 2005," which is available from county extension offices (Pm-1645) and at www.public.iastate.edu/~jjannink/.

Results

Barley yields averaged 122 bushels/acre in 2005, which was 40 bushels/acre more than the

Table 1. Performance of spring barley varieties tested at Sutherland.

Variety	Yield ¹				
	2005	Long-term avg	Test weight ² (lb/bu)	Heading date ³ (May)	Plant height ⁴ (in.)
Azure	122	82	47.4	29	36.1
CDC Clyde	134	.	48.3	30	34.6
Conlon	116	79	49.5	29	34.2
Conrad	131	.	48.8	35	31.6
Drummond	113	81	48.2	32	35.3
Excel	124	86	48.1	31	34.8
Foster	119	80	47.2	29	34.9
Kewaunee	122	76	46.8	31	37.0
Lacey	128	86	48.5	31	34.5
Legacy	126	82	46.8	32	36.0
Logan	115	79	48.5	30	34.8
PrimusII	111	76	48.2	25	35.7
Robust	123	84	48.6	30	36.0
Stark	122	81	48.9	33	36.5
Steller	130	.	47.6	29	33.8
Average	122	82	48.1	30	35.0
LSD(0.05) ⁵	11	10	1.2	2	2.1

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

²Test Weight is an average from three sites.

³Data were collected at Ames only and were recorded after May 1.

⁴Height was 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.