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Oat Variety Test

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Abstract

Twenty-two varieties were included in the 2006 oat variety test at Crawfordsville. Each variety was sown in three different plots to average out the effects of soil variability. The varieties were planted April 13 at a rate of 3 bushels/acre. The oat plots were harvested on July 19.

Keywords

Agronomy

Disciplines

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Oat Variety Test

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Materials and Methods

Twenty-two varieties were included in the 2006 oat variety test at Crawfordsville. Each variety was sown in three different plots to average out the effects of soil variability. The varieties were planted April 13 at a rate of 3 bushels/acre. The oat plots were harvested on July 19.

Results

Average oat grain yield at Crawfordsville in 2006 was 138 bushels/acre, 15 bushels/acre less

than the long-term average yield (Table 1). Based on several years of data, Stallion was the highest yielding variety. Reeves had the highest test weight among hulled (normal) oat varieties in 2006. Buff is a hull-less variety and thus had a higher test weight.

Additional information on oat and 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 oat varieties tested at Crawfordsville.

Variety	Grain yield bu/A							
	2006	Long-term avg.	Head date (June) ¹	Lodging score ²	Groat % ³	CR ⁴	BYD ⁴	Test weight ⁵
Baker	141	167	12	59.2	73.7	2.0	3.8	32.5
Blaze	120	155	12	67.1	73.5	1.8	3.2	33.4
Buff	102	118	11	43.4	100.0	5.1	3.4	43.8
Chaps	132	148	13	51.3	73.5	2.0	3.6	31.3
Cherokee	82	88	8	19.7	72.8	3.5	3.3	31.7
Drumlin	147	163	13	80.3	72.7	5.5	6.5	32.8
Esker	146	167	10	51.3	74.8	2.2	2.7	32.7
Hi-Fi	129	146	16	40.8	72.7	2.7	4.3	32.1
IN09201	136	155	8	24.9	72.7	2.2	3.7	33.3
Jay	147	161	11	38.1	71.5	2.0	4.3	34.5
Jerry	129	147	11	19.7	75.9	0.9	3.7	34.3
Jim	141	157	9	48.7	76.8	2.4	3.5	33.9
Kame	135	155	8	17.0	77.6	1.2	3.4	31.6
Ogle	134	150	12	23.6	75.1	2.8	4.3	30.8
Reeves	134	147	9	80.3	74.8	3.4	3.7	35.1
Richland	97	96	10	56.6	73.3	1.5	3.6	31.0
Robust	153	163	13	17.0	72.8	2.0	3.8	34.6
Spurs	150	164	10	27.6	74.6	3.3	3.9	34.5
Stallion	144	169	14	80.3	74.0	1.5	3.8	34.5
Wabasha	140	158	13	38.1	74.5	4.4	3.5	32.9
Winona	144	156	8	18.4	76.3	1.6	3.4	33.5
Woodburn	151	163	8	53.9	74.6	6.0	5.9	34.1
Average	138	153	11	43.6	75.2	3.0	4.0	33.7
LSD ⁶	16	19	2	28.4	3.7	2.5	1.5	1.2

¹Heading date at Ames, 2006.

²Lodging from Crawfordsville where significant lodging occurred in 2006. This number therefore does not reflect average lodging across environments but only worst-case lodging.

³Groat %—2006 average from two sites.

⁴CR, crown rust and SR data from 2005, 0=resistant, 9=highly infected; BYD, barley yellow dwarf virus data from 2004.

⁵Test weight—2006 average from five sites.

⁶LSD=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.