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Oat Variety Test

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Abstract

Twenty-three varieties were included in the 2007 oat variety test at Lewis. 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 3 bushels/acre. The oat plots were harvested on July 17.

Keywords

Agronomy

Disciplines

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Oat Variety Test

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Materials and Methods

Twenty-three varieties were included in the 2007 oat variety test at Lewis. 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 3 bushels/acre. The oat plots were harvested on July 17.

Results and Discussion

Average oat grain yield at Lewis in 2007 was 133 bushels/acre, 9 bushels/acre less than the

long-term average yield (Table 1). Based on several years of data, Esker was the highest yielding variety. Reeves had the highest test weight among hulled (normal) oat varieties in 2007. 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, 2007" which is available from county extension offices (Pm-1645) and at www.croptesting.iastate.edu/.

Table 1. Performance of oat varieties tested at Lewis.

Variety	Grain yield bu/A		Head date (June) ¹	Height (in.)	Lodging score ²	Groat % ³	Test weight ⁴
	2007	Long-term avg.					
Baker	147	147	16	34.4	59.2	71.0	33.2
Blaze	123	141	16	34.3	67.1	72.7	34.1
Buff	107	108	16	33.7	43.4	100.0	44.9
Chaps	129	136	16	34.7	51.3	74.0	32.3
Cherokee	73	90	13	33.3	19.7	72.7	32.4
Drumlin	142	135	19	34.3	80.3	71.5	33.2
Esker	157	158	15	35.0	51.3	74.0	32.5
Excel	164		15	35.0	30.2	71.6	33.3
Hi-Fi	124	133	19	34.8	40.8	70.5	33.0
IN09201	133	139	14	33.7	24.9	71.3	33.1
Jay	134	146	18	32.9	38.1	69.7	34.1
Jerry	120	132	17	36.2	19.7	73.0	35.1
Jim	136	142	14	34.4	48.7	73.7	34.0
Kame	127	136	14	34.3	17.0	72.8	32.3
Ogle	135	148	17	34.8	23.6	72.5	31.5
Reeves	127	133	15	35.2	80.3	74.4	36.8
Richland	91	102	16	34.0	56.6	72.0	31.1
Robust	143	140	19	33.3	17.0	72.1	35.4
Spurs	149	151	16	33.9	27.6	71.6	35.5
Stallion	124	138	18	36.2	80.3	71.8	35.7
Wabasha	129	131	17	35.8	38.1	72.3	33.8
Winona	134	144	14	35.5	18.4	73.8	34.1
Woodburn	136	143	13	35	53.9	73.0	34.7
Average	133	142	15	34.4	43.6	72.7	34.1
LSD (0.05) ⁵	24	20	2	2.3	28.4	2.8	1.5

¹Heading date at Ames 2007.

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 % – 2007 average from two sites.

⁴Test weight – 2007 average from four sites.

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.