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Abstract

Twenty-two varieties were included in the 2006 oat 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 three bushels/acre. The oat plots were harvested on July 24.

Keywords

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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 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 three bushels/acre. The oat plots were harvested on July 24.

Results and Discussion

Average oat grain yield at Sutherland in 2006 was 74 bushels/acre, 49 bushels/acre less than the long-term average yield (Table 1). Based on several years of data, Stallion and Spurs were the highest yielding varieties. 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 Sutherland.

Variety	Grain yield bushels/acre 2006	Long term avg.	Head date[1]	Lodging score[2] (June)[1]	Groat %[3]	CR[4]	BYD[4]	Test weight[5]
Baker	75	129	12	59.2	73.7	2.0	3.8	32.5
Blaze	79	128	12	67.1	73.5	1.8	3.2	33.4
Buff	64	104	11	43.4	100.0	5.1	3.4	43.8
Chaps	71	123	13	51.3	73.5	2.0	3.6	31.3
Cherokee	63	89	8	19.7	72.8	3.5	3.3	31.7
Drumlin	75	126	13	80.3	72.7	5.5	6.5	32.8
Esker	69	126	10	51.3	74.8	2.2	2.7	32.7
Hi-Fi	75	125	16	40.8	72.7	2.7	4.3	32.1
IN09201	83	130	8	24.9	72.7	2.2	3.7	33.3
Jay	78	126	11	38.1	71.5	2.0	4.3	34.5
Jerry	67	115	11	19.7	75.9	0.9	3.7	34.3
Jim	78	129	9	48.7	76.8	2.4	3.5	33.9
Kame	68	118	8	17.0	77.6	1.2	3.4	31.6
Ogle	72	124	12	23.6	75.1	2.8	4.3	30.8
Reeves	78	119	9	80.3	74.8	3.4	3.7	35.1
Richland	66	96	10	56.6	73.3	1.5	3.6	31.0
Robust	79	129	13	17.0	72.8	2.0	3.8	34.6
Spurs	75	132	10	27.6	74.6	3.3	3.9	34.5
Stallion	78	132	14	80.3	74.0	1.5	3.8	34.5
Wabasha	75	127	13	38.1	74.5	4.4	3.5	32.9
Winona	71	126	8	18.4	76.3	1.6	3.4	33.5
Woodburn	72	127	8	53.9	74.6	6.0	5.9	34.1
Average	74	123	11	43.6	75.2	3.0	4.0	33.7
LSD[6]	13	17	2	28.4	3.7	2.5	1.5	1.2

[1]Heading date at Ames, 2006.
[2]Lodging from Crawfordsville where significant lodging occurred in 2006. This number therefore does not reflect average lodging across environments but only worst-case lodging.
[3]Groat %, 2006 average from two sites.
[4]CR, crown rust and SR data from 2005, 0=resistant, 9=highly infected; BYD, barley yellow dwarf virus data from 2004.
[5]Test weight, 2006 average from five sites.
[6]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.