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Oat Variety Test

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Abstract
Twenty-nine varieties were included in the 2008 oat variety test at Nashua, IA. Each variety was sown in three different plots to average out the effects of soil variability. The varieties were planted April 16 at a rate of 3 bushels/acre. The oat plots were harvested on July 28.

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Materials and Methods

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Results and Discussion

Average oat grain yield at Nashua in 2008 was 132 bushels/acre, 7 bushels/acre more than the three-year average yield (Table 1). Based on three years of data, Stallion was the highest yielding variety. Tack had the highest test weight among hulled (normal) oat varieties in 2008. 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, 2008," which is available from county extension offices (Pm-1645) and at www.croptesting.iastate.edu/.

Table 1. Performance of oat varieties tested at Nashua in 2008.

	Bushels/acre[1]			Yield[1]	Date	Height	Lodging	Groat	Test
Variety	2006	2007	2008	3-yr avg	(June)[2]	(in.)[2]	score[3]	%[4]	weight[5]
Baker	124	135	139	133	21	37.5	59.2	73	33.9
Blaze	114	129	145	129	22	35.7	67.1	73	34.7
Buff	90	92	107	96	22	35.4	43.4	89	42.5
Chaps	122	125	140	129	22	36.5	51.3	74	33.0
Cherokee	67	99	97	88	18	35.4	19.7	75	32.9
Classic			115		24	37.0			33.2
Don			130		18	32.0			34.4
Drumlin	125	131	140	132	26	36.5	80.3	73	33.0
Esker	125	143	132	133	21	36.2	51.3	77	33.6
Excel		130	145		21	35.7	30.2	72	35.0
Hi-Fi	136	124	144	135	26	35.9	40.8	69	33.6
IN09201	110	138	138	129	19	34.4	24.9	72	34.3
Jay	117	117	131	122	22	34.6	38.1	71	35.4
Jerry	106	125	138	123	23	38.6	19.7	72	35.4
Jim	116	128	129	124	20	37.8	48.7	75	34.9
Kame	130	133	130	131	19	34.4	17.0	73	32.7
Morton			127		27	38.9		69	32.0
Ogle	126	143	132	134	21	37.8	23.6	72	32.2
Reeves	109	117	130	119	20	39.4	80.3	73	35.9
Richland	91	100	120	104	21	36.2	56.6	73	32.3
Riser			115		16	33.9		73	35.9
Robust	133	133	138	135	28	33.6	17.0	67	33.4
Souris			147		24	34.4		75	34.5
Spurs	127	129	144	133	20	34.9	27.6	72	36.2
Stallion	135	127	148	137	25	39.9	80.3	73	36.3
Tack			128		21	31.5		74	37.6
Wabasha	118	115	132	122	24	38.1	38.1	74	34.1
Winona	119	121	131	124	18	36.5	18.4	75	35.3
Woodburn	127	140	125	131	18	36.2	53.9	75	35.7
Average	117	125	132	125	22	36.0	42.9	73	34.6

[1] Grain yields are based on a 32 lb/bushel test weight.
[2] Heading date at Ames, 2008.
[3] Lodging from Crawfordsville where significant lodging occurred in 2006.
This number does not reflect average lodging across environments but only worst-case lodging.
[4] Groat % 2008 average from three sites.
[5] Test weight–2008 average from three sites.