

Oat Variety Test

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Materials and Methods

Twenty-eight varieties were included in the 2005 oat test at Crawfordsville. Each variety was sown in three different plots to average the effects of soil variability. The varieties were planted on March 17 at a rate of 3 bushels/acre. The oat plots were harvested on July 14.

Results and Discussion

Average oat grain yield at Crawfordsville in 2005 was 185 bushels/acre, 58 bushels/acre

more than the long-term average yield (Table 1). Based on several years of data, Baker was the highest-yielding variety. Reeves had the highest test weight among hulled (or normal) oat varieties in 2005. Buff, however, 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, 2005," 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/acre		Head date (June) ¹	Lodging score ²	Groat % ³	CR ⁴	BYD ⁴	Test weight ⁵
	2005	Long-term avg.						
Baker	200	147	8	43.3	74.3	2.0	3.8	34.1
Blaze	201	139	9	40.9	75.9	1.8	3.2	34.4
Brawn	192	135	10	32.0	74.7	5.1	3.4	32.5
Buff	146	98	7	30.4	91.0	2.0	3.6	44.3
Chaps	179	133	8	35.7	74.3	3.5	3.3	32.7
Cherokee	114	79	4	42.9	71.9	5.5	6.5	33.7
Classic	188	132	10	32.4	70.3	2.2	2.7	34.0
Dane	177	130	2	36.7	73.1	2.7	4.3	31.8
Drumlin	183	140	12	50.8	74.7	2.2	3.7	33.7
Esker	193	145	6	41.8	74.7	2.0	4.3	33.5
Gem	176	128	9	32.5	70.3	0.9	3.7	33.6
IN09201	185	136	5	32.1	71.1	2.4	3.5	34.6
Jay	198	136	8	30.2	72.3	1.2	3.4	34.4
Jerry	180	127	9	36.5	74.3	2.8	4.3	35.9
Jim	203	136	5	39.7	74.3	3.4	3.7	34.8
Jud	180	136	11	31.9	71.5	1.5	3.6	34.2
Kame	178	133	6	30.7	73.1	2.0	3.8	32.4
Killdeer	179	131	11	33.8	71.9	3.3	3.9	33.2
Moraine	184	130	6	34.0	75.1	1.5	3.8	34.5
Ogle	193	132	10	38.7	74.7	4.4	3.5	31.3
Reeves	179	122	6	51.5	73.9	1.6	3.4	36.9
Richland	125	77	8	59.0	68.7	6.0	5.9	31.6
Robust	183	136	11	22.8	71.9	0.1	1.4	35.1
Sesqui	188	138	12	38.3	71.5	1.4	3.9	34.2
Spurs	197	140	6	41.2	73.9	1.9	3.7	35.3
Wabasha	183	130	10	29.4	73.1	1.4	3.1	33.3
Winona	189	132	4	38.3	73.1	2.2	4.0	34.8
Woodburn	191	139	5	31.6	72.7	0.1	0.9	35.5
Average	185	127	8	39.0	73.6	3.0	4.0	34.5
LSD ³	19	16	2	20.3	4.9	2.5	1.5	1.2

¹Heading date at Ames, 2005.²Lodging from Lewis, 2004.³Groat % is a 2005 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 is a 2005 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.