

Oat Variety Test

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Materials and Methods

Twenty-eight varieties were included in the 2003 oat test at Crawfordsville. Each variety was sown in three different plots to average out the effects of soil variability. The varieties were planted March 27 at a rate of 3 bushels/acre. The oat plots were harvested on July 23.

Results

Average oat grain yield at Crawfordsville in 2003 was 138 bushels/acre, 4 bushels/acre less than the average yield in 2002 (Table 1). Based on three years of data (2001–2003), Brawn was the highest yielding variety. Reeves had the highest test weight among hulled (normal) oat varieties in 2003. Buff and Paul are hull-less varieties and thus had higher test weights.

Additional information on oat variety tests in the state can be found in the publication, "Iowa Crop Performance Tests—Oat and Barley, 1999–2003," which is available from county extension offices (PM-1645).

Table 1. Performance of oat varieties tested at Crawfordsville from 2001 to 2003.

Variety	Grain yields			3yr avg	Head date (June) ¹	Lodging score ²	Straw yield T/A ³	Test weight lbs/bu ⁴
	2001	2002	2003					
Belle	117	123	146	129	20	18	2.5	33.9
Blaze	144	155	142	147	16	45	2.3	33.2
Brawn	135	158	163	152	17	28	2.7	32.2
Buff	-	-	109	105	16	13	2.5	45.7
Chaps	145	148	154	149	17	33	2.5	32.2
Cherokee	118	86	66	90	13	45	2.2	32.7
Classic	137	137	163	145	17	28	2.6	34.6
Dane	145	141	133	139	12	23	2.5	31.6
Don	135	142	119	132	11	17	2.2	34.5
Gem	141	127	156	141	17	35	2.6	34.2
IN09201	143	140	159	147	14	27	2.2	34.1
Jay	142	141	154	146	17	42	2.5	35.5
Jerry	123	154	150	142	17	38	2.7	36.0
Jim	143	142	143	143	14	22	2.4	33.4
Jud	134	148	159	147	18	70	2.5	34.1
Killdeer	157	152	143	151	18	15	2.4	31.9
Leonard	-	142	156	147	21	18	2.5	32.7
Moraine	133	129	144	136	16	18	2.3	33.2
Ogle	135	142	158	145	18	25	2.7	31.1
Paul	87	91	112	96	21	40	2.8	40.7
Reeves	121	134	124	126	14	80	2.7	36.7
Richard	130	131	140	134	16	18	2.5	33.0
Richland	104	96	85	95	14	50	1.7	30.7
Riser	117	119	115	117	10	28	2.1	34.0
Sesqui	132	147	157	145	19	32	2.7	34.8
Starter	115	131	123	123	13	28	2.4	35.8
Troy	127	143	145	138	19	52	2.8	34.9
Wabasha	130	134	159	141	18	17	2.4	34.0
mean	131	134	138	134	16	32	2.5	34.3
LSD ⁵	14	16	14	18	1	21	0.3	0.7

¹ Heading date at Ames, 2003.

² Lodging data from Ames, 2003.

³ Straw Yield – 2003 average from five sites.

⁴ Test weight – 2003 average from five sites.

⁵ 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.