

Oat Variety Test

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Materials and Methods

Twenty-eight varieties were included in the 2003 oat test at Nashua. Each variety was sown in three different plots to average out the effects of soil variability. The varieties were planted April 2 at a rate of 3 bushels/acre. The oat plots were harvested on July 28.

Results

Average oat grain yield at Nashua in 2003 was 120 bushels/acre, 32 bushels/acre less than the average yield in 2002 (Table 1). Based on three years of data (2001–2003), Sesqui 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 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, 2001–2003; Barley, 1999–2003; and Spring Triticale, 2003," which is available from county extension offices (PM-1645) and at www.public.iastate.edu/~jjannink/.

Triticale Variety Test

Nineteen winter triticale lines and nineteen spring triticale lines were tested at Nashua in 2003. Only one year of data are available; thus, no table is presented. Triticale is being evaluated as a possible feed grain crop. Additional information on the triticale tests grown in the state can be found in the publication, "Iowa Crop Performance Tests—Oat, 2001–2003; Barley, 1999–2003; and Spring Triticale, 2003," which is available from county extension offices (PM-1645), and at www.public.iastate.edu/~jjannink/.

Table 1. Performance of oat varieties tested at Nashua 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 bu/A					
Belle	113	144	116	124	20	18	2.5	33.9
Blaze	117	172	131	140	16	45	2.3	33.2
Brawn	118	153	135	135	17	28	2.7	32.2
Buff	-	-	90	98	16	13	2.5	45.7
Chaps	138	165	130	144	17	33	2.5	32.2
Cherokee	102	117	58	92	13	45	2.2	32.7
Classic	126	157	124	136	17	28	2.6	34.6
Dane	122	137	115	125	12	23	2.5	31.6
Don	96	154	121	124	11	17	2.2	34.5
Gem	122	151	129	134	17	35	2.6	34.2
IN09201	127	167	132	142	14	27	2.2	34.1
Jay	129	158	144	144	17	42	2.5	35.5
Jerry	108	163	129	133	17	38	2.7	36.0
Jim	122	151	132	135	14	22	2.4	33.4
Jud	136	146	139	140	18	70	2.5	34.1
Killdeer	137	163	132	144	18	15	2.4	31.9
Leonard	-	172	126	142	21	18	2.5	32.7
Moraine	106	160	127	131	16	18	2.3	33.2
Ogle	120	155	144	140	18	25	2.7	31.1
Paul	81	99	78	86	21	40	2.8	40.7
Reeves	121	147	124	131	14	80	2.7	36.7
Richard	119	159	110	129	16	18	2.5	33.0
Richland	86	129	65	93	14	50	1.7	30.7
Riser	116	141	97	118	10	28	2.1	34.0
Sesqui	124	165	149	146	19	32	2.7	34.8
Starter	107	130	116	118	13	28	2.4	35.8
Troy	113	146	123	128	19	52	2.8	34.9
Wabasha	116	162	128	135	18	17	2.4	34.0
mean	120	152	120	128	16	32	2.5	34.3
LSD ⁵	14	20	14	17	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.