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Oat Variety Test, Triticale Variety Test

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Abstract
Includes:

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Oat Variety Test

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Materials and Methods

Twenty-eight varieties were included in the 2003 oat test at Lewis, Iowa. Each variety was sown in three different plots to average out the effects of soil variability. The varieties were planted April 1 at a rate of 3 bushels/acre. The oat plots were harvested on July 16.

Results

Average oat grain yield at Lewis in 2003 was 103 bushels/acre, 17 bushels/acre more than the average yield in 2002 (Table 1). Based on three years of data (2001–2003), Jay 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 spring triticale lines and nineteen winter triticale lines were tested at Lewis 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 Lewis from 2001 to 2003.

Variety	Grain yields 2001	2002	2003	3yr Avg	Head date (June)[1]	Lodging score[2]	Straw yield T/A[3]	Test weight lbs/bu[4]
	bu/A							
Belle	120	86	112	106	20	18	2.5	33.9
Blaze	137	93	105	112	16	45	2.3	33.2
Brawn	144	98	128	123	17	28	2.7	32.2
Buff	-	-	74	80	16	13	2.5	45.7
Chaps	147	109	114	123	17	33	2.5	32.2
Cherokee	127	41	64	77	13	45	2.2	32.7
Classic	157	106	114	126	17	28	2.6	34.6
Dane	142	98	124	121	12	23	2.5	31.6
Don	150	107	123	126	11	17	2.2	34.5
Gem	138	94	113	115	17	35	2.6	34.2
IN09201	152	115	108	125	14	27	2.2	34.1
Jay	149	106	126	127	17	42	2.5	35.5
Jerry	141	97	122	120	17	38	2.7	36.0
Jim	149	103	114	122	14	22	2.4	33.4
Jud	159	85	97	114	18	70	2.5	34.1
Killdeer	164	74	101	113	18	15	2.4	31.9
Leonard	-	72	107	103	21	18	2.5	32.7
Moraine	121	92	103	105	16	18	2.3	33.2
Ogle	134	98	110	114	18	25	2.7	31.1
Paul	81	39	54	58	21	40	2.8	40.7
Reeves	137	98	120	118	14	80	2.7	36.7
Richard	141	62	82	95	16	18	2.5	33.0
Richland	92	47	70	70	14	50	1.7	30.7
Riser	144	78	88	103	10	28	2.1	34.0
Sesqui	136	79	112	109	19	32	2.7	34.8
Starter	137	101	116	118	13	28	2.4	35.8
Troy	135	63	104	101	19	52	2.8	34.9
Wabasha	136	100	72	103	18	17	2.4	34.0
mean	136	86	103	108	16	32	2.5	34.3
LSD[5]	17	16	19	19	1	21	0.3	0.7

[1] Heading date at Ames, 2003.
[2] Lodging 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.