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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

Thirty-two varieties were included in the 2002 oat test at Nashua, Iowa. Each variety was sown in three different plots in order to average the effects of soil variability. The varieties were planted March 28 at a rate of 3 bushels/acre. The oat plots were harvested July 17.

Results

Average oat grain yield at Nashua in 2002 was 152 bushels/acre, 27 bushels/acre more than the average yield in 2001 (Table 1). Based on three years of data (2000–2002), Killdeer was the highest yielding variety. Reeves had the highest test weight among hulled (normal) oat varieties in 2002. Paul 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—Oats and Barley, 1998–2002," which is available from county extension offices (Pm-1645) and at www.public.iastate.edu\~jjannink\.

Triticale Variety Test

Twenty-four winter triticale lines were tested at Nashua in 2002. 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—Winter Wheat, 1999–2002 and Winter Triticale, 2002," which is available from county extension offices (AG-6) and at www.public.iastate.edu\~jjannink\.

Table 1. Performance of oat varieties tested at Nashua from 2000 to 2002.

Variety	Grain Yields				Head date (June)[1]	Lodging score[2]	Straw yield T/A[3]	Test weight lbs/bu[4]
	2000	2001	2002	3yr avg				
	bu/A							
Belle	88	113	144	115	18	28	2.1	33.7
Blaze	99	117	172	129	12	54	2.3	32.4
Brawn	101	118	153	124	14	39	2.2	31.6
Chaps	112	138	165	138	12	43	2.1	32.0
Cherokee	70	102	117	97	9	38	1.9	33.2
Classic	91	126	157	125	12	42	2.4	33.0
Dane	111	122	137	124	8	18	2.0	31.2
Don	81	96	154	110	9	58	2.2	34.2
Ebeltoft	93	126	159	126	19	35	2.0	29.9
Gem	95	122	151	123	13	28	2.2	33.1
IN09201	90	127	167	128	10	42	2.1	34.3
Jay	99	129	158	129	12	35	2.4	34.3
Jerry	83	108	163	118	13	49	2.6	35.2
Jim	103	122	151	125	10	48	1.9	34.5
Jud	107	136	146	130	16	35	2.2	32.5
Killdeer	116	137	163	139	15	37	2.7	31.7
Leonard	-	-	172	141	18	-	2.2	30.2
Moraine	114	106	160	127	11	40	1.9	33.9
Ogle	93	120	155	123	12	46	2.3	31.3
Paul	59	81	99	79	17	27	1.9	40.5
Reeves	-	121	147	121	11	-	2.1	36.4
Richard	98	119	159	125	13	28	2.0	31.3
Richland	61	86	129	92	11	56	1.6	29.8
Riser	99	116	141	119	6	65	1.7	34.6
Rodeo	99	127	173	133	14	38	2.4	30.7
Sesqui	108	124	165	132	17	-	2.2	32.9
Sheldon	90	118	149	119	11	75	2.1	33.0
Starter	82	107	130	106	9	65	2.1	35.4
Troy	85	113	146	115	16	79	2.3	31.8
Vista	94	110	163	122	14	44	2.1	32.8
Wabasha	96	116	162	125	15	-	2.3	32.2
Youngs	108	128	150	129	18	36	2.2	29.3
mean	92	120	152	121	13	43	2.1	32.9
LSD[5]	18	14	20	13	1	26	0.3	1.1

[1]Heading date at Ames, 2002.
[2]Lodging – 1999 average from five sites.
[3]Straw yield – 2002 average from five sites.
[4]Test weight – 2002 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.