

2004

Oat Variety Test, Triticale Variety Test

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Recommended Citation

Skrdla, Ronald and Jannink, Jean-Luc, "Oat Variety Test, Triticale Variety Test" (2004). *Iowa State Research Farm Progress Reports*. 1361.
http://lib.dr.iastate.edu/farms_reports/1361

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Abstract

Includes:

Oat Variety Test

Triticale Variety Test

Keywords

Agronomy

Disciplines

Agricultural Science | Agriculture | Agronomy and Crop Sciences

Oat Variety Test

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Materials and Methods

Twenty-eight varieties were included in the 2003 oat test at Calumet. 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. All oat plots were harvested on July 29.

Results and Discussion

Average oat grain yield at Calumet in 2003 was 102 bushels/acre, 13 bushels/acre more than the

average yield in 2002 (Table 1). The increase in yield was due to better weather conditions during the growing season. Based on three years of data (2001–2003), Ogle 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).

Triticale Variety Test

Nineteen winter triticale lines were tested at Calumet 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—Winter Wheat, 2000–2003 and Winter Triticale, 2003" which is available from county extension offices (AG-6) and at www.public.iastate.edu/~jjannink/.

Table 1. Performance of oat varieties tested at Calumet from 2001–2003.

Variety	Grain yields			3-yr avg	Head date (June) ¹	Lodging score ²	Straw yield T/A ³	Test weight lbs/bu ⁴
	2001	2002 bu/A	2003					
Belle	98	90	106	98	20	18	2.5	33.9
Blaze	109	96	120	108	16	45	2.3	33.2
Brawn	106	98	121	108	17	28	2.7	32.2
Buff	-	-	84	78	16	13	2.5	45.7
Chaps	109	99	109	105	17	33	2.5	32.2
Cherokee	82	62	64	69	13	45	2.2	32.7
Classic	99	100	100	99	17	28	2.6	34.6
Dane	99	91	100	97	12	23	2.5	31.6
Don	95	86	86	89	11	17	2.2	34.5
Gem	100	95	102	99	17	35	2.6	34.2
IN09201	107	98	110	105	14	27	2.2	34.1
Jay	112	94	116	107	17	42	2.5	35.5
Jerry	102	93	106	100	17	38	2.7	36.0
Jim	102	96	111	103	14	22	2.4	33.4
Jud	105	88	110	101	18	70	2.5	34.1
Killdeer	116	92	110	106	18	15	2.4	31.9
Leonard	-	100	123	112	21	18	2.5	32.7
Moraine	99	93	105	99	16	18	2.3	33.2
Ogle	103	105	121	110	18	25	2.7	31.1
Paul	65	41	85	64	21	40	2.8	40.7
Reeves	93	96	82	90	14	80	2.7	36.7
Richard	103	85	99	96	16	18	2.5	33.0
Richland	78	65	65	69	14	50	1.7	30.7
Riser	71	77	94	81	10	28	2.1	34.0
Sesqui	104	97	120	107	19	32	2.7	34.8
Starter	92	72	91	85	13	28	2.4	35.8
Troy	106	94	98	99	19	52	2.8	34.9
Wabasha	98	90	109	99	18	17	2.4	34.0
mean	101	89	102	96	16	32	2.5	34.3
LSD ⁵	11	11	9	12	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.