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Abstract

Thirty-one varieties were included in the 2001 oat test at Calumet, Iowa. Each variety was sown in three different plots in order to average soil variability effects. The varieties were planted April 18 at a rate of 3 bushels/acre. All oat plots were harvested on July 30.

Keywords

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Disciplines

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Oat Variety Test

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Materials and Methods

Thirty-one varieties were included in the 2001 oat test at Calumet, Iowa. Each variety was sown in three different plots in order to average soil variability effects. The varieties were planted April 18 at a rate of 3 bushels/acre. All oat plots were harvested on July 30.

Results

Average oat grain yield at Calumet in 2001 was 101 bushels/acre, 29 bushels/acre more

than the average yield in 2000 (Table 1). The increase in yield was due to the cool, moist conditions during the early part of the growing season. Based on three years of data (1999–2001), Rodeo was the highest yielding variety. Jerry had the highest test weight among hulled (normal) oat varieties in 2001. Paul is a hull-less variety and thus had a higher test weight.

Additional information on oat variety tests in the state can be found in the publication, "Iowa Crop Performance Tests—Oat and Barley, 1998–2001," available from county extension offices (Pm-1645).

Table 1. Performance of oat varieties tested at Calumet, IA, 1999–2001.

Variety	Grain Yields ¹			3-yr. avg.	Head date (June) ¹	Lodging score ²	Straw yield T/A ³	Test weight lbs/bu ⁴
	1999	2000	2001 bu/A					
Belle	142	64	98	101	21	28	3.1	34.8
Blaze	130	82	109	107	17	54	3.2	34.7
Brawn	147	80	106	111	18	39	2.9	31.9
Chaps	134	77	109	107	17	43	3.1	34.1
Cherokee	88	47	82	73	13	38	3.0	34.1
Classic	138	71	99	102	17	42	3.3	34.1
Dane	140	70	99	103	11	18	2.7	31.4
Don	110	77	95	94	14	58	2.9	34.7
Ebeltoft	151	77	121	116	23	35	3.0	31.2
Gem	142	77	100	107	18	28	3.0	34.2
IN09201	149	76	107	111	13	42	2.8	34.4
Jay	144	76	112	111	18	35	3.4	34.9
Jerry	119	72	102	98	17	49	3.1	37.0
Jim	148	83	102	111	14	48	2.9	35.7
Jud	137	78	105	106	18	35	3.3	35.0
Killdeer	146	78	116	113	18	37	3.1	34.0
Loyal	136	73	101	103	22	27	3.3	34.3
Moraine	135	73	99	102	15	40	2.4	34.1
Ogle	129	83	103	105	18	46	3.0	32.5
Paul	95	54	65	71	21	27	3.4	41.1
Richard	128	70	103	100	16	28	3.0	33.9
Richland	68	45	78	64	15	56	2.5	30.7
Riser	118	56	71	82	9	65	2.6	35.3
Rodeo	140	86	120	115	19	38	2.9	32.0
Sesqui	-	78	104	105	21	-	3.4	34.2
Sheldon	107	70	103	93	15	75	3.1	32.7
Starter	104	53	92	83	12	65	2.7	35.8
Troy	125	74	106	101	20	79	3.5	33.6
Vista	133	75	107	105	18	44	2.7	32.9
Wabasha	-	71	98	98	19	-	3.2	33.7
Youngs	139	78	108	108	22	36	3.3	32.1
mean	127	72	101	100	17	43	3.0	34.0
LSD ⁵	14	9	11	13	1	26	0.5	1

¹ Heading date at Ames, 2001.

² Lodging – 1999 average from five sites.

³ Straw yield – 2001 average from five sites.

⁴ Test weight – 2001 average from five sites.

⁵ LSD = Least significant difference. When entries differ by an amount equal to one LSD or more, they are considered with 95% certainty to be in different classes.