

Oat Variety Test

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Materials and Methods

Thirty-three varieties were included in the 2001 oat test performed at Lewis, Iowa. Each variety was sown in three different plots to average out the effects of soil variability. The varieties were planted April 17, 2001, at a rate of three bushels/acre. The oat plots were harvested July 25.

Results

Average oat grain yield at Lewis in 2001 was 136 bushels/acre, 54 bushels/acre more than the average yield in 2000 (Table 1). Based on three years of data (1999–2001), Brawn 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 and barley 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 the Armstrong Research and Demonstration Farm, Lewis, IA, 1999-2001.

Variety	Grain Yields ¹				Head Date (June) ¹	Lodging Score ²	Straw Yield T/A ³	Test Weight lbs/bu ⁴
	1999	2000	2001	3yr Avg				
Belle	97	89	120	102	21	28	3.1	34.8
Blaze	108	93	137	113	17	54	3.2	34.7
Brawn	120	107	144	124	18	39	2.9	31.9
Chaps	108	94	147	117	17	43	3.1	34.1
Cherokee	69	38	127	78	13	38	3.0	34.1
Classic	123	82	157	121	17	42	3.3	34.1
Dane	108	86	142	112	11	18	2.7	31.4
Don	103	87	150	113	14	58	2.9	34.7
Ebeltoft	123	81	123	109	23	35	3.0	31.2
Gem	101	96	138	112	18	28	3.0	34.2
IN09201	99	90	152	114	13	42	2.8	34.4
Jay	125	88	149	121	18	35	3.4	34.9
Jerry	111	90	141	114	17	49	3.1	37.0
Jim	120	86	149	119	14	48	2.9	35.7
Jud	94	89	159	114	18	35	3.3	35.0
Killdeer	114	88	164	122	18	37	3.1	34.0
Loyal	99	80	122	101	22	27	3.3	34.3
Moraine	90	93	121	101	15	40	2.4	34.1
Ogle	104	95	134	111	18	46	3.0	32.5
Paul	70	52	81	68	21	27	3.4	41.1
Richard	93	85	141	106	16	28	3.0	33.9
Richland	51	29	92	58	15	56	2.5	30.7
Riser	99	64	144	102	9	65	2.6	35.3
Rodeo	107	90	126	108	19	38	2.9	32.0
Sesqui	-	106	136	118	21	-	3.4	34.2
Sheldon	93	70	137	100	15	75	3.1	32.7
Starter	89	77	137	101	12	65	2.7	35.8
Troy	95	85	135	105	20	79	3.5	33.6
Vista	94	94	113	100	18	44	2.7	32.9
Wabasha	-	91	136	111	19	-	3.2	33.7
Youngs	108	79	147	112	22	36	3.3	32.1
Mean	98	82	136	107	17	43	3.0	34.0
LSD ⁵	25	21	17	17	1	26	0.5	1.0

¹ Heading date at Ames, 2001.² Lodging – 1999 average from 5 sites.³ Straw yield – 2001 average from 5 sites.⁴ Test weight – 2001 average from 5 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.