2003

Oat Variety Test

Ronald Skrdla
Iowa State University

Jean-Luc Jannink
Iowa State University

Oat Variety Test

Abstract
Thirty-two varieties were included in the 2002 oat test at Crawfordsville, Iowa. Each variety was sown in three different plots in order to average the effects of soil variability. The varieties were planted March 20 at a rate of 3 bushels/acre. The oat plots were harvested July 19.

Keywords
Agronomy

Disciplines
Agricultural Science | Agriculture | Agronomy and Crop Sciences

Oat Variety Test

Ron Skrdla, ag research specialist
Jean-Luc Jannink, assistant professor
Department of Agronomy

Materials and Methods

Thirty-two varieties were included in the 2002 oat test at Crawfordsville, Iowa. Each variety was sown in three different plots in order to average the effects of soil variability. The varieties were planted March 20 at a rate of 3 bushels/acre. The oat plots were harvested July 19.

Results

Average oat grain yield at Crawfordsville in 2002 was 134 bushels/acre, 3 bushels/acre less than the average yield in 2001 (Table 1). Based on three years of data (2000–2002), Blaze and Chaps were the highest yielding varieties. 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—Oat and Barley, 1998–2002," which is available from county extension offices (Pm-1645) and at www.public.iastate.edu\~jjannink\.

Table 1. Performance of oat varieties tested at Crawfordsville 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	3-yr avg				
	bu/A							
Belle	89	117	123	110	18	28	2.1	33.7
Blaze	112	144	155	137	12	54	2.3	32.4
Brawn	112	135	158	135	14	39	2.2	31.6
Chaps	117	145	148	137	12	43	2.1	32.0
Cherokee	63	118	86	89	9	38	1.9	33.2
Classic	103	137	137	125	12	42	2.4	33.0
Dane	93	145	141	126	8	18	2.0	31.2
Don	87	135	142	121	9	58	2.2	34.2
Ebeltoft	121	129	134	128	19	35	2.0	29.9
Gem	104	141	127	124	13	28	2.2	33.1
IN09201	108	143	140	130	10	42	2.1	34.3
Jay	110	142	141	131	12	35	2.4	34.3
Jerry	105	123	154	127	13	49	2.6	35.2
Jim	106	143	142	130	10	48	1.9	34.5
Jud	112	134	148	131	16	35	2.2	32.5
Killdeer	100	157	152	136	15	37	2.7	31.7
Leonard	-	-	142	129	18	-	2.2	30.2
Moraine	111	133	129	125	11	40	1.9	33.9
Ogle	106	135	142	127	12	46	2.3	31.3
Paul	73	87	91	83	17	27	1.9	40.5
Reeves	-	121	134	117	11	-	2.1	36.4
Richard	100	130	131	120	13	28	2.0	31.3
Richland	52	104	96	84	11	56	1.6	29.8
Riser	98	117	119	111	6	65	1.7	34.6
Rodeo	116	123	146	128	14	38	2.4	30.7
Sesqui	118	132	147	132	17	-	2.2	32.9
Sheldon	86	117	128	110	11	75	2.1	33.0
Starter	83	115	131	110	9	65	2.1	35.4
Troy	105	127	143	125	16	79	2.3	31.8
Vista	102	120	129	117	14	44	2.1	32.8
Wabasha	102	130	134	122	15	-	2.3	32.2
Youngs	93	131	133	119	18	36	2.2	29.3
mean	99	131	134	121	13	43	2.1	32.9
LSD[5]	11	14	16	14	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.