

Table 1. Agronomic performance of oat genotypes grown at University of Wyoming, Powell Research and Extension Center, Powell, WY during 2007.

Variety	Plant height	Heading date	Lodging	Grain yield	Test weight
	inches	Days from Jan. 1		bu/acre	lb/bu
99Ab11136	39.4	178	1.0	201.9	34.8
94Ab5818	34.4	175	1.0	196.0	35.7
02Ab5836	32.5	175	1.7	194.9	34.4
Powell	35.0	176	2.3	194.7	33.6
Ajay	31.6	176	1.0	187.2	35.9
96Ab8963	37.1	175	1.0	186.8	36.5
96Ab8796	35.0	175	2.3	186.7	35.4
Maverick	35.8	175	1.0	186.2	38.3
94Ab5469	37.8	175	1.0	186.0	36.5
Cayuse	41.9	172	1.7	185.2	35.2
96Ab8597	41.5	176	1.0	182.4	35.7
99Ab12057	31.6	175	1.0	182.1	35.8
99Ab10971	35.7	175	1.0	181.4	38.7
99Ab11703	38.3	174	1.0	180.4	34.9
99Ab11974	35.6	172	1.0	179.9	38.1
97Ab7767	39.1	175	2.0	178.7	32.9
02HO-209	39.2	174	1.7	177.5	36.8
92Ab791	38.8	175	2.0	175.1	35.7
99Ab11798	38.2	175	1.0	174.3	36.1
98Ab6491	35.7	174	2.0	174.2	32.7
99Ab11136	38.5	178	2.7	172.2	33.7
99Ab11963	39.2	175	1.0	171.2	39.6
95Ab12770	39.2	175	2.7	170.5	37.5
99Ab11259	37.3	173	1.0	169.7	39.0
Monida	42.3	175	1.7	164.4	36.6
87Ab5632	39.9	174	1.0	163.3	37.5
OT382	44.1	175	1.0	158.3	38.0
Rio Grande	39.1	173	2.0	157.2	37.9
95Ab10854	37.7	177	2.3	156.3	39.2
97Ab7761	38.3	178	1.0	152.1	34.7
Kildeer (ND 930122)	36.4	172	1.3	150.5	36.3
Monico	39.0	174	1.0	149.6	37.8
97Ab8081	37.7	175	1.7	144.0	35.5
94Ab5943	38.1	174	1.0	140.6	38.1
97Ab8620	38.1	178	2.3	140.3	36.4
98Ab6646	37.9	175	1.0	134.3	37.6
CDC Pacer (OT351)	44.1	175	1.3	122.8	38.5
Souris (ND961161)	37.8	172	1.0	121.9	36.6
Otana	45.4	173	1.3	115.6	37.9
CDC Dancer (OT373)	42.5	175	1.3	100.1	37.4
Morton	45.0	174	1.0	94.6	35.7
Mean	38.3	174.9	1.43	164.4	36.5
LSD_{0.05}	3.6		NS	26.3	1.6
CV%	5.8		62.5	9.8	2.8

NS=non significant

Lodging (1=upright, 9=flat)

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UW-REC (POWELL): The experiment was located at the University of Wyoming Research and Extension Center in Powell, Wyoming during 2007. The soil was a Garland clay loam (fine, mixed, mesic; Typic Haplargid) and had a cropping history of: 2006, dry beans; 2005, small grains; and 2004, dry beans. The soil was fertilized for a yield goal of 100 bushels of grain per acre. Fertilizer was applied on 19 March, at the rate of 150 pounds N and 65 pounds P₂O₅, in the form of urea (46-0-0) and diammonium phosphate (11-52-0). The soil in the study area was prepared for planting by fall plowing, roller harrowing and leveling. On 16 April, 41 spring oat varieties were established in plots 7.3 by 20 feet using double disk openers set at a row spacing of 7 inches. The seeding depth was 1.5 inches, and the seeding rate was 100 pounds of seed per acre. Weeds were controlled by a post application of a tank mixture of bromoxynil and MCPA (Bronate) broadcast at 0.50 and 0.50 pounds active ingredient per acre on 16 May. Furrow irrigations were 20 May, 5 June, 21 June, 03 July, and 15 July. Subplots, 5.33 by 8 feet, were harvested on 23 August, using a Wintersteiger plot combine.