

Table 1. Agronomic performance of oat genotypes grown at University of Wyoming, Powell Research and Extension Center, Powell, WY during 2008.

Variety	Plant height	Heading date	Lodging	Grain yield	Test weight
	inches	Days from Jan. 1		bu/acre	lb/bu
94Ab5818	45.7	186	1	207.2	37.6
02Ab5836	44.4	190	1	187.9	38.5
Maverick	42.5	187	1	187.2	39.4
98Ab6491	41.7	185	1	185.5	37.1
Powell	46.5	187	1	183.5	38.2
99Ab12057	40.8	190	1	180.7	36.1
96Ab8796	42	185	1	180.3	37.8
95Ab12770	47	186	1	172.3	40.4
99Ab11259	45.4	186	1	171.7	40.4
Rio Grande	46.7	186	1	171.3	39.5
96Ab8963	44.5	186	1	163.9	38
92Ab791	43.2	186	1	162.9	39.9
00Ab8118	46.7	184	1	160.4	39.2
99Ab11703	45.1	190	1	159.7	37.2
99Ab11963	47.4	190	1	157.5	40.5
99Ab10971	41.5	186	1	154.6	40.1
02HO-209	45.4	186	1	154.1	39.1
97Ab7767	45	190	1	153.7	36.6
99Ab11105	45	186	1	152.9	39.9
99Ab11974	42.4	184	1	150.9	39.6
96Ab8597	47.8	190	1	150.8	38.8
94Ab5469	48	186	1	150.8	39.7
Kildeer	43.8	183	1	144.5	38.3
87Ab5632	48.3	185	1	143.3	38.2
Ajay	38.6	186	1	141	37
99Ab11136	47.9	190	5	141	36.5
Monico	48	185	1	138.1	40.5
97Ab7761	45.1	190	1	136.2	38.3
Cayuse	48	184	1	131.5	38.3
OT382	53.4	186	1	131.1	40.1
00Ab6743	42.3	184	1	127.4	38.5
98Ab6646	45.1	185	1	126.8	38.2
99Ab10937	47.8	190	1	124.9	39.2
CDC Pacer (OT351)	51.4	186	1	118.5	39.5
97Ab8620	48.3	190	1	116.4	37.6
Souris	45.9	183	1	104.8	38.2
Monida	48.7	186	3	96.4	38
CDC Dancer (OT373)	53.8	186	1	79.2	38.5
Otana	51.2	186	1	70.1	39.8
Morton	55.1	184	1	65.6	38.3
Mean	46.2	187	1	145.9	38.7
LSD_{0.05}	4.7			32.7	1.5
CV%	6.3			13.8	2.4

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 2008. The soil was a Garland clay loam (fine, mixed, mesic; Typic Haplargid) and had a cropping history of: 2007, dry beans; 2006, small grains; and 2005, 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 180 pounds N and 75 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 07 April, 40 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 04 June. Furrow irrigations were 28 April, 15 June, 27 June, 10 July, and 25 July. Subplots, 5.33 by 8 feet, were harvested on 23 August, using a Wintersteiger plot combine.