

Agronomic performance of oat genotypes grown at University of Wyoming, Powell Research and Extension Center, Powell, WY during 2009.

Variety	Plant height inches	Grain yield bu/acre	Test weight lb/bu
99Ab12057	34.0	224.3	37.2
98Ab6491	37.5	223.2	36.5
Powell	33.5	222.6	36.9
94Ab5818	33.6	218.4	37.6
Maverick	34.5	217.9	38.1
92Ab791	37.1	217.3	38.4
99Ab11136	37.1	217.3	37.7
00Ab8118	36.2	214.3	39.5
97Ab7761	38.1	213.7	38.1
00Ab6743	34.6	211.5	36.8
99Ab11963	36.6	211.4	40.2
99Ab11703	37.8	209.3	37.4
97Ab7767	36.2	209.1	36.5
02HO-209A	37.9	207.2	37.0
97Ab8620	37.1	205.4	39.3
02Ab5836	34.8	204.2	37.1
Rio Grande	37.5	204.0	39.3
99Ab10971	35.2	201.0	40.6
96Ab8963	34.9	199.8	38.6
99Ab11105	36.1	199.4	39.7
OT382	44.9	198.6	39.7
ND930122	37.1	197.6	38.0
94Ab5469	39.0	196.9	38.1
96Ab8796	34.3	195.1	38.5
87Ab5632	37.9	192.5	39.6
02HO-209	39.0	190.0	38.3
99Ab10937	38.5	189.7	39.4
Monida	40.7	187.3	38.2
99Ab11974	37.1	181.2	39.5
Cayuse	34.9	181.1	36.4
ND961161	38.3	179.8	37.5
95Ab12770	38.6	177.8	38.5
96Ab8597	38.8	175.4	38.1
Ajay	31.6	173.6	38.6
98Ab6646	36.4	171.7	37.9

Monico	38.7	168.7	39.7
99Ab11259	36.6	161.0	39.9
CDC Pacer (OT351)	42.3	159.3	39.6
CDC Dancer (OT373)	41.9	154.2	35.1
Otana	42.4	147.6	38.4
Morton	45.8	129.9	37.7
Mean	37.4	194.6	38.2
LSD_{0.05}	2.7	38.8	1.9
CV%	4.4	12.3	3.1

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 2009. The soil was a Garland clay loam (fine, mixed, mesic; Typic Haplargid) and had a cropping history of: 2008, dry beans; 2007, small grains; and 2006, dry beans. The soil was fertilized for a yield goal of 100 bushels of grain per acre. Fertilizer was applied on 24 March, at the rate of 120 pounds N and 70 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 20 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 29 April, 15 June, 26 June, 10 July, 22 July and 4 August. Subplots, 5.33 by 8 feet, were harvested on 28 August, using a Wintersteiger plot combine.