

Table 1. Agronomic performance of spring barley genotypes grown at Powell, WY during 2008.

Variety	Row Type	Grade	Plant height inches	Heading date Days from Jan. 1	Lodge 1-9	Grain yield bu/acre	Test weight lb/bu	Plumpness	
								6/64	5.5/64
Malt Use									
Moravian 69	2	M	30.9	184	1	141.3	49.0	98.4	99.3
2B99-2316	2	M	34.7	181	2	123.2	48.9	97.1	99.2
2ND22182	2	M	35.6	176	2	120.9	49.4	98.9	99.2
2B02-2925	2	M	36.8	181	3	119.6	51.2	98.4	99.5
Metcalf	2	M	38.0	180	3	119.5	50.2	98.9	99.5
Hocket	2	M	36.8	180	4	119.5	51.7	98.8	99.5
2ND21867	2	M	36.5	181	2	119.3	49.1	98.9	99.3
2ND22927	2	M	39.1	182	2	118.6	49.0	99.1	99.4
2B03-3719	2	M	38.5	181	4	118.2	51.5	99.3	99.7
MT010158	2	F/M	34.9	177	4	118.1	51.4	99.0	99.7
MT020155	2	F/M	38.3	176	5	117.2	50.1	95.9	98.8
MT030042	2	F/M	33.8	181	4	116.5	52.9	97.6	99.4
MT020204	2	F/M	38.3	181	3	116.4	51.5	96.8	99.0
Conrad	2	M	35.2	182	2	115.7	51.0	98.6	99.5
MT040073	2	F/M	38.5	182	5	114.6	53.0	97.2	99.1
Merit	2	M	37.8	183	2	113.8	50.0	97.5	99.0
Stander	6	M	41.0	180	3	111.1	49.1	97.5	99.0
MT010160	2	F/M	39.3	181	5	109.8	51.9	97.4	99.3
Harrington	2	M	38.1	181	6	106.4	49.7	98.7	99.4
2B99-2657	2	M	36.6	182	2	90.0	48.4	95.0	98.5
Morex	6	M	45.4	174	7	52.1	48.3	96.8	99.2
Feed Use									
PB1 04-2R-4263	2	F	34.4	177	2	137.5	52.4	99.5	99.8
04WA-101.45	2	F	41.1	181	4	136.3	52.5	99.3	99.7
02WA-1095	2	F	37.3	181	5	133.6	51.0	96.6	98.7
Xena	2	F	39.1	180	3	131.3	51.8	98.7	99.5
04WA-122.20	2	F	38.0	180	2	129.6	52.0	98.9	99.5
02WA-7028.9	2	F	37.4	181	3	127.9	51.4	98.5	99.4
Haxby	2	F	37.3	181	2	127.5	52.0	98.8	99.5
BZ503-097	2	F	38.4	181	1	127.4	53.0	99.3	99.7
Baronesse	2	F	35.3	180	5	127.3	51.4	96.9	99.1
Steptoe	6	F	40.8	174	5	126.5	47.5	97.2	99.2
02Ab17060	2	F	32.8	182	3	125.3	50.9	98.9	99.6
Brunton	2	F	38.7	181	2	124.3	51.6	98.9	99.6
BZ505-184	2	F	34.4	181	3	117.2	50.8	97.4	99.1
Boulder	2	F	37.4	180	3	116.9	52.2	98.6	99.5
UT04B2041-42	6	F	39.4	177	2	111.8	48.5	95.2	98.5
BZ504-093	2	F	38.5	181	4	104.9	50.4	98.8	99.4
Gallatin	2	F	39.4	180	4	104.2	51.9	98.7	99.5
UT03B1960-483	6	F	42.4	174	3	99.4	46.6	97.0	98.9
Mean			37.6	180	3.25	117.7	50.6	98.0	99.3
LSD _{0.05}			3.0			19.0	1.9	1.4	0.5
CV%			4.9			9.9	2.3	0.9	0.3

Lodge= 1 upright, 9 Flat; M=Malting, F=Feed.

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, beets; 2006, barley; and 2005, beets. Fertilizer was applied for a yield goal of 100 bushels of grain per acre. Fertilizer was applied on 21 March, at the rate of 120 pounds N and 50 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 1 April, 39 barley 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 Advanced- 1 pt) and pinoxaden (Axial XL- 16.4 oz) broadcast at 0.50, 0.50, and 0.05 pounds active ingredient per acre on 4 June. Furrow irrigations were 23 April, 12 June, 27 June, 11 July, and 26 July. Subplots, 5.3 by 8 feet, were harvested on 19 August, using a Wintersteiger plot combine.