

Table 1. Agronomic performance of spring barley genotypes grown at Powell, WY during 2007.

Variety	Row Type	Grade	Plant height	Heading date	Lodge	Grain yield	Test weight	Plumpness	
								6/64	5.5/64
			inches	Days from Jan. 1	1-9	bu/acre	lb/bu	% above screen	
Malt Use									
2B99-2771-1	2	M	32.4	168	1.3	137.77	50.99	95.6	98.9
2ND21867	2	M	33.5	166	3.7	132.82	51.37	98.7	99.4
2B99-2771-9	2	M	33.6	168	2.0	130.65	50.06	96.4	99.2
2ND22927	2	M	38.2	165	1.0	130.51	48.85	99.2	99.7
2B99-2316	2	M	33.9	167	4.3	130.28	48.94	95.0	98.5
Conrad	2	M	34.8	167	2.7	129.40	50.01	97.0	98.9
MT020155	2	M/F	37.4	162	4.7	127.86	49.58	91.9	97.7
98Ab11993	2	M	34.4	168	3.3	126.20	48.78	93.1	98.2
2ND22182	2	M	32.8	161	1.0	124.14	49.72	99.1	99.5
MT010158	2	M/F	35.5	166	2.7	122.98	51.14	98.3	99.5
Stander	6	M	39.7	165	2.3	122.10	49.01	96.3	99.1
MT030042	2	M/F	34.7	166	3.7	121.67	53.24	93.4	97.8
2B99-2316-4	2	M	34.1	169	3.0	119.59	48.90	91.2	97.2
Harrington	2	M	37.3	169	3.3	118.75	48.83	97.3	99.3
01NZ706	6	M/F	39.4	166	3.0	116.96	46.57	95.4	98.9
2B99-2766-10	2	M	34.8	168	4.0	115.87	48.04	91.7	98.0
MT010160	2	M/F	38.3	167	3.3	114.46	50.22	97.0	99.1
ND20299	6	M	36.2	161	2.7	113.26	46.52	96.9	99.3
Hockett	2	M	36.0	164	5.0	112.24	48.78	93.1	97.6
MT020204	2	M/F	35.5	165	4.3	111.54	51.39	95.2	98.5
ND20448	6	M	42.0	161	3.7	109.61	48.64	96.6	99.0
01NZ392	6	M/F	38.6	166	4.0	107.84	48.43	95.6	99.3
Metcalf	2	M	37.6	167	3.3	107.38	48.46	96.6	98.9
ND21306	6	M	37.8	161	1.7	107.17	47.36	95.3	98.8
Merit	2	M	37.3	170	3.0	106.3	46.97	90.3	97.2
01Ab10062	2	M	36.9	174	1.7	103.27	48.49	97.3	99.4
01Ab10055	2	M	36.1	170	2.7	97.25	47.62	92.7	97.2
99NZ102	6	M/F	37.6	165	2.7	95.57	46.46	91.2	98.7
Morex	6	M	41.6	161	7.3	79.86	47.08	93.4	98.5
Feed Use									
BZ502-265	2	F	34.4	165	1.7	160.28	51.29	98.7	99.4
UT99B1670-3458	6	F	36.6	160	2.3	149.45	45.60	97.8	99.1
Baronesse	2	F	35.2	165	2.7	147.08	50.08	92.5	97.7
02WNZ-1015	2	F	32.8	167	3.0	146.83	49.47	93.2	97.8
Xena	2	F	36.6	167	1.7	145.16	51.9	96.0	98.6
02WNZ-1100	2	F	33.9	167	2.3	144.85	51.11	96.9	98.9
PB1-04-2R-4057	2	F	36.6	167	2.0	144.78	51.17	98.7	99.5
PB1-04-2R-4038	2	F	32.8	168	2.3	142.94	51.58	98.2	99.5
02WA-7018.13	2	F	38.6	166	1.7	142.78	50.73	96.4	99.2
UT99B1669-3243	6	F	37.3	160	2.3	141.87	46.70	96.5	98.9
Steptoe	6	F	35.9	162	3.3	139.94	46.84	97.2	99.2
BZ501-129	2	F	35.6	167	2.0	136.47	50.89	98.8	99.6
BZ503-097	2	F	37.0	166	1.3	133.33	52.20	98.6	99.7
Haxby	2	F	38.5	167	3.3	132.74	51.49	96.7	98.8
02WA-7052.9	2	F	32.8	168	4.0	129.34	49.93	93.7	98.2
PB1-04-2R-4257	2	F	36.5	166	3.3	128.88	51.47	98.3	99.5

PB1-04-2R-4262	2	F	34.1	167	4.0	128.77	50.78	98.4	99.7
01AB11107	2	F	33.8	166	3.3	128.23	50.45	97.0	98.9
02WNZ-1821	2	F	34.8	167	3.0	124.72	49.66	96.5	98.7
Gallatin	2	F	38.9	165	3.0	121.55	51.36	95.9	98.7
Boulder	2	F	39.1	166	4.0	121.05	50.13	96.6	98.8
Burton	2	F	38.9	167	1.3	119.47	51.36	97.9	99.3
Mean			36.3		2.9	125.2	49.5	95.9	98.8
LSD _{0.05}			2.71		1.77	21.96	1.75	2.7	1.0
CV%			4.6		37.2	10.8	2.2	1.7	0.7

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 2007. The soil was a Garland clay loam (fine, mixed, mesic; Typic Haplargid) and had a cropping history of: 2006, beets; 2005, barley; and 2004, beets. Fertilizer was applied for a yield goal of 100 bushels of grain per acre. Fertilizer was applied on 15 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 27 March, 51 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 - 1 pt) and pinoxaden (Axial 8 oz) broadcast at 0.50, 0.50, and 0.05 pounds active ingredient per acre on 15 May. Furrow irrigations were 16 May, 5 June, 20 June, 3 July and 14 July. Subplots, 5.3 by 8 feet, were harvested on 2 August, using a Wintersteiger plot combine.