

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

| Variety             | Row Type | Grade | Plant height<br>inches | Heading date<br>Days from Jan.<br>1 | Lodge<br>1-9 | Grain yield<br>bu/acre | Test weight<br>lb/bu | Plumpness |        |
|---------------------|----------|-------|------------------------|-------------------------------------|--------------|------------------------|----------------------|-----------|--------|
|                     |          |       |                        |                                     |              |                        |                      | 6/64      | 5.5/64 |
| <b>Malt Use</b>     |          |       |                        |                                     |              |                        |                      |           |        |
| 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   |
| <b>Feed Use</b>     |          |       |                        |                                     |              |                        |                      |           |        |
| 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 <sub>0.05</sub> |          |       | 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 P<sub>2</sub>O<sub>5</sub> 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.