

Busch Agricultural Resources, Inc. Malting Barley Variety Evaluation in Large Plots 2008

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The University of Wyoming, Powell Research and Extension Center in cooperation with Busch Agricultural Resources conducted a study designed to evaluate the grain yield and quality characteristics of six malting barley varieties. The varieties were planted in 1.0 acre strips and managed using the best management practices for the soil and growing conditions at the University of Wyoming Research and Extension Center in Powell, Wyoming during 2008.

Materials and Methods

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. The soil was fertilized 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 spring vibra shanking and roller harrowing. On 25 March, five barley varieties were established in plots 64 feet by 625 feet using a Case IH drill with double disk openers set at a row spacing of 6 inches. 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 2 May. Furrow irrigations were 22 April, 11 June, 23 June, 7 July and 21 July. Plots were harvested using an IH 1440 Axial flow combine on 21 August. 150 lbs of each variety was sub-sampled and sent to Busch Agricultural Resources for quality evaluation. The results are as follows:

Table 1. Agronomic Performance of Busch Agricultural Resources Barley Varieties grown at University of Wyoming, Powell Research and Extension Center, Powell, WY during 2008.

Variety	Grain Yield	Height	Lodge 1=upright 9=flat	Heading Date
	bu/a	in	1-9	
Conrad	142	36	4	7/1
Merit	142	40	4	7/2
2657	140	38	4	7/1
Merit 16	133	34	3	6/30
Metcalf	128	36	3	6/29