



CROP VARIETY TRIALS 2009

DEPARTMENT OF PLANT SCIENCES

Busch Agricultural Resources, Inc. Malting Barley Variety Evaluation in Large Plots 2009

Variety	Grain Yield	Height	Lodge 1=upright 9=flat	Heading Date	Test	Splits & Broken	Thin	Plump	Protein	Germ 72 hr
	bu/a	in	1-9	date	Lb/bu	%	%	%	%	%
ConradMerit	117	30	2	6/30	49.7	0	1.3	97.8	9.4	100
Merit 57	134	34	2	7/2	50.0	0	3.6	95.0	8.4	100
Merit 16	135	35	2	7/1	47.7	1.4	4.2	93.7	9.5	98
	130	35	2	7/1	47.5	0.2	3.4	94.5	9.7	100

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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 four 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 2009.


Materials and Methods

The soil was a Garland clay loam (fine, mixed, mesic; Typic Haplargid) and had a cropping history of: 2008, beans; 2007, barley; and 2006, beets. 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 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 10 April, four barley varieties were established in plots 81 feet by 700 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 (Bromox-1.5 pt) and pinoxaden (Axial XL-16.4 oz) broadcast at 0.50, 0.50, and 0.05 pounds active ingredient per acre on 29 May. Furrow irrigations were 27 April, 1 June, 23 June, 1 July, 12 July, and 24 July. Plots 630 ft by 78 ft were harvested using an IH 1440 Axial flow combine on 20 August. 150 lbs of each variety was sub-sampled and sent to Busch Agricultural Resources for quality evaluation. The results are as follows.



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