

2016 Organic Winter Malting Barley Variety Trial



Dr. Heather Darby, UVM Extension Agronomist
Erica Cummings and Hillary Emick
UVM Extension Crops and Soils Technicians
802-524-6501

Visit us on the web: <http://www.uvm.edu/extension/cropsoil>

2016 ORGANIC WINTER MALTING BARLEY VARIETY TRIAL

Dr. Heather Darby, University of Vermont Extension
heather.darby[at]uvm.edu

The revival of the small grains industry in the Northeast and the strength of the locavore movement, craft breweries and distilleries have expressed an interest in sourcing local barley for malting. Malting barley must meet specific quality characteristics such as low protein content and high germination. Depending on the variety, barley can be planted in either the spring or fall, and both two- and six-row barley can be used for malting. In the fall 2015, UVM Extension in collaboration with the Winter Malting Barley Trial (WMBT) testing network, conducted a winter malting barley trial to evaluate yield and quality of 24 varieties.

MATERIALS AND METHODS

In the fall of 2015, a winter malting barley variety trial was established at Borderview Research Farm in Alburgh, VT. The experimental plot design was a randomized complete block with three replications. The treatments were twenty-four winter malting barley varieties, listed in Table 1.

Table 1. Varietal information for the 24 winter malting barley varieties, 2016.

Winter barley variety	Type	Seed source
10.0777	2-row	Oregon State University
10.086	2-row	Oregon State University
04ARS640-1	2-row	USDA
05ARS561-208	2-row	USDA
06ARS633-10	2-row	USDA
10/069/1	6-row	Kilian Hundsrucker
6W11-0064	6-row	Busch Agricultural Resources, LLC
6W13-7041	6-row	Busch Agricultural Resources, LLC
6W13-7145	6-row	Busch Agricultural Resources, LLC
Charles	2-row	Oregon State University
DH130004	2-row	Oregon State University
DH130718	2-row	Oregon State University
Endeavor	2-row	Oregon State University
Hirondella (08/258/17)	6-row	Kilian Hundsrucker
McGregor	6-row	Oregon State University
MW11S4024-004	6-row	University of Minnesota
MW11S4029-002	6-row	University of Minnesota
MW12_4007-008	6-row	University of Minnesota
MW12_4042-002	6-row	University of Minnesota
Puffin	2-row	Limagrain Cereal Seeds
Strider	6-row	Oregon State University
SU-Mateo	2-row	Kilian Hundsrucker
Thoroughbred	6-row	Virginia Tech
Vincenta	2-row	Kilian Hundsrucker

Many of the varieties in the trial were developed in environments much different from New England. Hence, it is important to evaluate the varieties for tolerance to our climate. The winter survival of the malting barley plots were assessed on April 21, 2016. There was severe winterkill in all of the plots and therefore, the trial was terminated.

ACKNOWLEDGEMENTS

The UVM Extension Northwest Crops and Soils Team would like to thank Roger Rainville and the staff at Borderview Research Farm. We would also like to acknowledge