Western Washington
Winter Barley Variety Trial 2010

In collaboration with Oregon State University, 30 varieties of winter barley were planted at the Mount Vernon Research Center on Oct. 7, 2009. The nursery consisted of 6-row plots (7" spacing, 7 ft. harvest length), with three replicates for each variety. A single application of urea was made on April 12, 2010, at the rate of 50 lbs N/acre. All other nutrients were deemed sufficient based on a soil test. Weeds were controlled by hand, and fungicides were not used so that disease could be scored.

The table below shows preliminary results from the trial, which was harvested on July 15. With the exception of Strider and Charles, the entries below are advanced breeding lines from OSU's winter barley breeding program. Further testing for quality attributes relevant to feed, food, and malting is underway. For additional information, contact Steve Jones (joness@wsu.edu), Steve Lyon (slyon@wsu.edu), or Pat Hayes (patrick.hayes@oregonstate.edu).

Name	Yield[1] (lbs/acre)	Test Weight (lbs/bu)	Height (in)	Heading Date[2]	Stripe Rust Disease Severity[3] (0-100)	Scald Disease Severity[3] (0-100)
OR815	6821	50	50	127	0	0
OR77	6625	49	48	130	0	0
OR98	6693	46	39	123	0	0
OR819	6683	46	43	121	0	2
OR816	6485	46	49	129	0	0
OR91	6473	45	42	121	0	0
OR99	6277	46	41	121	0	10
OR96	6257	45	42	121	0	11
OR92	6255	47	42	123	0	2
OR94	6156	45	43	122	0	2
OR915	6110	45	45	124	0	37
OR93	6058	45	41	120	0	3
OR97	6024	44	39	121	0	23
OR818 (malting)	5890	49	41	121	0	5
OR910	5629	44	39	122	0	0
OR83	5449	47	44	110	0	0
OR813 (malting)	5316	49	43	112	0	3
OR95	5271	44	41	122	0	7
Strider	5224	41	40	121	0	2
Charles (malting)	5065	45	37	109	0	63
OR76 (malting)	4798	48	48	113	0	0
OR81 (malting)	4684	47	40	115	0	12
OR85 (hulless)	4202	45	44	111	27	12
OR911 (hulless)	3960	49	38	110	0	23
OR86 (hulless)	3487	53	40	119	30	33
OR912	3632	44	23	111	0	47
OR914	2971	41	23	112	0	93
C.V. (%)	16	3	5	1		

[1] Fisher's LSD at p = 0.1 is 1120 lbs/acre.
[2] Heading date is the number of days past January 1.
[3] Stripe rust and scald disease severities are the percent infected foliage on the upper two leaves on May 15.