

Western Washington
Spring Barley Variety Trial 2010

Two-row spring barley varieties were planted at the WSU Mount Vernon Research Center on April 16, 2010. The nursery consisted of 6-row plots (7" spacing, 9 ft. harvest length), with three replicates of each variety. A 50:50 mixture of urea (46-0-0) and ESN (44-0-0), a slow-release urea from Agrium Technologies, was broadcast at a rate of 150 lbs N/acre on May 5, when the barley was at the two-leaf stage. All other nutrients were brought to sufficient levels by preplant incorporation of granulated fertilizers based on a soil test. The herbicide Maestro (bromoxynil) was applied on May 15, but no fungicide was used. The grain was harvested on Aug. 20.

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Name	Yield (t/a)	Test Wt (lbs/bu)	Height (in)	Stripe Rust Severity ¹
2004NZ151	3.7	46.5	38	13
BCD47	3.5	50.2	33	0
05WA-329.49	3.4	49.7	49	6
06WA-421.23	3.4	46.9	51	0
2004NZ163	3.3	45.1	37	15
Bob	3.2	50.6	45	1
06WA-458.14	3.1	46.2	47	10
04WA-113.22	2.9	46.2	46	40
07MB-390	2.9	44.4	47	8
AC Metcalfe (malting)	2.9	47.9	50	18
04WENZ-124	2.9	45.5	37	11
06WA-423.21	2.8	47.9	48	5
Baronesse	2.8	48.6	45	12
Orca	2.8	51.4	41	0
Champion	2.8	47.3	47	17
06WA-412.4	2.8	47.9	44	10
06WA-426.42	2.8	44.2	48	29
Radiant	2.7	47.9	48	13
CDC Copeland (malting)	2.7	42.4	54	28
Harrington (malting)	2.6	45.0	47	30
WAS2 (waxy)	2.6	48.2	42	32
05WA-316.99	2.6	43.8	46	20
Lenetah	2.6	45.1	44	40
Tetonia	2.6	42.6	46	23
WAS1 (waxy)	2.6	41.6	47	60
RCSL124	2.5	43.3	47	30

Name	Yield (t/a)	Test Wt (lbs/bu)	Height (in)	Stripe Rust Severity¹
WAS3 (waxy, hulless)	2.5	51.9	46	35
Steptoe (6-row)	2.4	41.7	48	30
CDC Meredith (malting)	2.4	43.0	45	33
Haxby	2.4	43.3	47	65
Pinnacle	2.2	40.5	45	65
Meresse (waxy, hulless)	2.1	45.1	42	60
Spaulding	1.9	42.3	45	38
Bentley (malting)	1.9	39.8	50	75
WAS4 (waxy, hulless)	1.9	51.3	42	57
Clearwater (hulless)	1.8	50.0	47	12
Average	2.7	46.0	45	26
CV (%)	11	3		
LSD ($p = 0.1$)	0.4			

¹ Stripe rust severity is the % necrosis observed on the top two leaves on July 2.

Note: The information in this document is provided for educational purposes only. Reference to commercial products or trade names does not imply an endorsement by Washington State University.