

Western Washington: Reduced Nitrogen Spring Barley Variety Trial 2012

Variety Name	Yield (lbs/acre)	Test weight (lbs/bu)	Protein (%)	Plump Kernels (% >6/64 in)	Plant ht (in)	Heading (Julian)	Rust Severity (1-10)
LSC LN09-0920	5771	47.6	10.2	89.2	29	188	2
08WA-118.12	5185	48.8	9.0	87.5	33	187	3
CDC Meredith (Malting)	5107	44.5	9.6	77.4	39	189	3
Champion	5075	48.4	9.7	83.9	35	185	4
X05013-T267	5052	48.7	10.0	86.5	32	188	3
07WA-614.4	5014	43.1	10.3	66.3	35	187	4
06WA-412.4	4983	49.1	10.0	85.5	30	186	3
Radiant	4977	49.3	9.3	81.1	36	188	4
2004NZ163	4959	48.0	10.3	86.1	27	188	3
CDC Copeland (Malting)	4862	47.3	9.4	88.7	41	188	3
05WA-316.99	4838	47.9	9.9	89.6	31	188	3
07WA-601.6	4799	49.4	9.5	84.9	31	187	2
Newdale (Malting)	4795	47.3	9.8	83.8	31	186	5
2004NZ151	4750	49.2	9.5	89.3	27	188	3
2Ab04-X01084-27	4706	47.0	9.8	86.2	36	186	3
2004NZ170	4674	45.2	9.9	80.4	36	188	4
08WA-140.11	4667	49.3	9.5	87.6	35	187	2
Bob	4617	47.2	9.6	81.6	35	186	4
08WA-107.8	4527	46.2	9.2	84.8	34	188	4
08WA-109.17	4496	47.6	9.2	85.4	32	187	3
05WA-316.K	4480	47.2	9.9	84.4	32	184	3
Lenetah	4440	50.4	9.7	89.0	34	185	5
Bentley (Malting)	4434	41.7	9.4	77.8	37	188	6
Camas	4361	48.1	9.7	89.4	39	188	4
Harrington (Malting)	4196	46.9	8.6	88.6	32	187	4
07WA-682.1	4169	47.6	9.2	86.2	34	187	5
Full Pint (Malting)	4111	46.4	11.0	89.4	25	188	2
Baronesse	4067	50.0	9.5	91.5	33	187	2
Hockett (Malting)	3911	48.5	9.5	88.9	35	187	3
2Ab09-X06F058HL-23 (Hulless)	3817	40.6	11.2	89.3	39	190	3
Meresse (Hulless)	3618	52.4	9.9	78.5	27	183	6
X05056-T211 (Hulless)	3564	47.8	10.7	86.6	32	186	5
Maja (Malting)	3449	41.5	9.8	55.1	39	185	5
09WA-265.14 (Hulless)	2614	41.5	10.5	63.7	36	188	6
Washford (Forage)	1875	28.8	11.7	65.4	42	187	5
Oscar (Hulless)	1499	51.2	13.1	84.7	45	189	5
CV %	10.6	2.8	6.6	5.6	5.7	0.5	28
LSD (0.1)	628	1.8	0.9	6.3	3	1	1
Average	4346	46.7	9.9	83.2	34	187	4
Highest	5771	52.4	13.1	91.5	45	190	6
Lowest	1499	28.8	8.6	55.1	25	183	2

Planting Notes: The Reduced Nitrogen Spring Barley variety trial was planted May 8th, 2012 at the WSU Mount Vernon Research Center to compare the influence of a 40% reduction in Nitrogen fertilizer on variety performance. Prior to planting 33 lb N/acre was applied as Coastal Blend (10-20-20). Seed was planted at 100 lbs/acre with a double disc drill set on 6-inch spacing. Results are the average of three replicate plots of each variety, planted in a randomized complete block design. Plots were harvested August 23rd, 2012.

Malting varieties have either been approved for malting use by the American Malting Barley Association, or are in advanced trials to assess malting quality. This does not guarantee that these varieties will produce acceptable malting quality when grown here. *Hulless* varieties thresh free of the outer hull and have been selected for food or feed purposes. *Forage* varieties typically have hooded awns and have been selected for forage production, not grain yield.

Rust Severity: We observed both stripe rust and leaf rust in trials. Combined leaf damage was ranked from (1 – 10) July 19th.

All values within the 10% Least Significant Difference (LSD) range of the highest value are shown in **bold**.

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