

2011 WSU Variety Testing Barley Trial, Dayton

Variety Name <i>*Hulless Italicized</i>	5 Year Average (Lbs/A)	3 Year Average (Lbs/A)	2 Year Average (Lbs/A)	2011					
				Yield (Lbs/A)	Test Wt (Lbs/Bu)	Protein (%)	Plump (%)	Plant Ht.	H.Date (Julian)
05WA-316.K		4700	5590	5660	54.6	12.9	85	30	176
07WA-682.1				5510	56.2	12.0	94	32	180
07WA-614.4				5460	53.9	13.0	92	28	179
Lenetah		4700	5430	5430	55.7	12.6	95	29	178
Tetonia		4420	5000	5310	55.1	12.0	90	30	179
06WA-458.14			5030	5290	54.7	12.7	83	27	178
Spaulding	4300	4340	5240	5260	56.7	11.9	93	32	177
Baronesse	4150	4310	4880	5200	54.6	12.7	87	30	178
07WA-601.6				5180	55.0	12.7	94	32	177
2004NZ170		3950		5130	55.4	12.5	92	24	182
CDC Meredith			4610	5090	53.8	11.9	89	31	181
Newdale				5020	54.6	13.0	89	31	179
2004NZ163			5480	5010	56.0	12.7	92	25	182
2004NZ223		3870		5000	56.2	12.5	95	26	184
CDC Copeland		3440	4090	4990	53.6	12.8	93	32	182
07WA-684.17				4970	54.8	12.1	88	29	177
Radiant	4290	4280	4850	4960	54.1	12.7	79	29	179
07WA-649.7				4950	55.7	12.5	92	31	177
2004NZ151			5060	4930	56.0	12.9	91	25	182
Bentley			4230	4880	53.3	12.9	90	34	178
2Ab04-X01084-27				4830	53.7	12.2	91	29	178
Champion	4360	4320	5010	4830	56.4	12.4	88	32	177
04WA-113.22		4180	4940	4830	55.6	13.9	94	28	177
AC Metcalfe	3460	3600	4340	4830	54.7	13.2	91	33	180
07MB-390			4560	4670	54.3	13.1	90	29	179
2Ab17271				4670	54.8	12.9	91	30	185
07WA-677.1				4640	55.9	11.7	89	27	177
07WA-630.19				4440	56.0	13.1	95	30	177
Harrington	3600	3520	4060	4400	54.4	13.1	92	30	179
05WA-316.99		3980	4770	4320	54.2	12.9	95	30	177
07WA-658.8				4300	54.9	13.3	88	27	178
Bob	3970	3970	4280	4220	55.8	13.8	96	30	177
WAS 2			4560	4200	55.6	13.9	96	25	178
Meresse	3330	3500	4270	3780	61.3	15.5	76	26	178
Clearwater		3030	3580	3770	61.6	12.8	83	30	180
WAS 4			4090	3710	61.7	13.7	74	28	177
C.V.	14	11	9	8	0.6	3.6	4	6	1
LSD	150	210	270	390	0.3	0.5	4	2	1
Average	3930	4010	4690	4820	55.6	12.9	90	29	179
Highest	4360	4700	5590	5660	61.7	15.5	96	34	185
Lowest	3330	3030	3580	3710	53.3	11.7	74	24	176

Dayton Spring Barley – Preliminary Data

1. Grain yield in the Dayton spring barley trial averaged 4820 pounds/acre and was 890 pounds/acre higher than the 5-year average. The Dayton nursery was located about five miles north of Dayton, WA (Jay Penner, cooperator).
2. This nursery was seeded on 18 April, 2011 following winter wheat. Seed was placed at an 80#/acre seeding rate using a double-disc drill set on 6-inch spacing. Base applied fertilizer was 160#N/acre. Spring seeding and growing conditions were favorable.
3. Yields ranged from 3710 lb/acre to 5660 lb/acre. Yield values within the LSD range of the highest yield are shown in bold and 6 of the 36 entries are in this top group. Lenetah was the highest yielding named variety. All entries were 2-row and hulless entries are listed in italics. The Lattice design was 275% efficient compared to an RCBD for yield.
4. Test weights were very good with an average of 55.6 lb/bu and ranged from 53.3 to 61.7 lb/bu with the high values produced by hulless cultivars. Grain protein averaged 12.9%, grain plumpness averaged 90%, and the average plant height was 29 inches.