2009 WSU SPRING BARLEY TRIAL SUMMARY
Precipitation Zone= 16"- 20"

VARIETY NAME (6-row in italics)	YIELD (LBS/A)						TEST WEIGHT (LBS/BU)						PROTEIN (%)					
	DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE YIELD	DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE TEST WEIGHT	DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE PROTEIN
CHAMPION	2940	4480	4960	5620	7250	**5050**	50.1	52.3	51.2	50.3	52.9	51.4	13.3	12.9	14.2	12.7	13.0	13.2
LENETAH	3240	4130	5420	5160	7020	**4990**	49.3	51.6	51.9	50.1	51.9	51.0	13.2	12.6	13.8	12.9	12.7	13.0
TETONIA	3260	4410	4080	5390	7070	**4840**	48.2	51.9	50.7	49.7	52.4	50.6	12.7	12.9	14.0	13.1	12.7	13.1
SPAULDING	2520	3860	5170	5340	7200	4820	49.9	52.8	52.6	52.1	52.6	52.0	12.6	12.3	13.4	12.9	12.4	12.7
RADIANT	3120	4340	4400	5260	6930	4810	48.4	50.9	50.8	48.8	51.0	50.0	12.5	12.7	13.8	12.8	12.4	12.8
05WA-316.K	2940	3910	4940	5070	6810	4730	48.7	51.4	49.8	47.1	51.6	49.7	13.5	13.0	14.0	12.9	12.9	13.3
05WA-329.49	3180	3870	4120	5330	6910	4680	49.1	51.8	50.7	49.6	51.6	50.6	13.3	13.7	14.5	12.8	12.9	13.4
05WA-316.99	2410	3680	4570	5490	7170	4660	47.2	49.9	49.9	48.0	50.3	49.1	13.1	13.6	14.0	13.1	13.0	13.4
2004NZ170	2770	3990	4680	4940	6940	4660	48.0	51.0	49.6	48.6	50.0	49.4	13.0	13.6	14.1	13.5	12.4	13.3
04WA-113.22	2640	3750	4780	5210	6920	4660	49.5	51.7	50.2	49.5	50.9	50.4	13.9	13.3	14.8	13.2	13.3	13.7
BOB	3340	3720	4670	4960	6490	4640	49.2	52.0	51.1	49.2	51.3	50.6	13.2	13.1	14.3	13.2	13.0	13.4
RWA 1758	2990	4030	4780	4690	6620	4620	49.6	52.1	50.5	49.3	51.5	50.6	13.3	13.5	14.3	13.2	12.9	13.4
HAXBY	2860	3660	4240	5320	6800	4580	51.2	52.7	52.5	51.2	52.7	52.1	13.0	12.5	14.0	12.7	12.5	12.9
BARONESSE	3170	3810	4670	4820	6310	4560	48.3	51.8	50.8	47.6	50.6	49.8	13.3	12.8	13.9	13.3	12.8	13.2
KENT	3050	3950	4620	4670	6480	4550	47.9	51.3	50.0	47.5	48.5	49.0	12.6	12.5	13.7	12.5	12.7	12.8
04WA-122.9	2610	4260	4330	4880	6680	4550	49.0	52.3	50.5	50.4	51.4	50.7	13.3	12.8	14.1	13.5	13.3	13.4
04WNZ-286	3140	3490	4350	5060	6650	4540	50.2	52.2	51.4	50.9	52.4	51.4	13.5	13.9	15.0	13.6	13.1	13.8
04WNZ-124	2700	3750	4860	4870	6410	4520	48.5	50.3	49.5	48.4	49.7	49.3	14.2	14.0	15.0	13.6	13.0	14.0
05WA-325.18	3270	3880	4110	4950	6110	4460	46.9	50.6	48.8	48.8	49.7	49.0	13.1	13.2	14.7	13.8	13.5	13.7
2004NZ160	2860	3600	4170	4980	6600	4440	49.9	52.7	52.0	50.8	52.6	51.6	13.6	13.0	14.6	13.2	12.8	13.4
CDC COPELAND	2150	4130	4210	4770	6950	4440	45.8	49.8	50.4	48.6	50.8	49.1	13.5	12.7	13.8	13.2	13.2	13.3
05WA-360.24	2860	3630	4690	4420	6510	4420	48.1	51.4	51.0	49.5	52.2	50.4	13.4	13.8	14.5	13.6	13.0	13.7
05WA-357.14	3120	3820	3940	4510	6660	4410	49.7	51.9	51.0	49.6	53.0	51.0	13.9	13.1	14.5	13.3	13.1	13.6
04WA-102.49	2570	3470	4780	4820	6400	4410	48.9	50.8	50.0	48.3	49.8	49.6	13.6	14.1	14.2	13.4	12.8	13.6
2004NZ223	2750	3900	3970	4900	6400	4380	51.0	52.4	51.5	50.8	51.1	51.4	13.3	13.5	15.0	13.9	13.0	13.7
HARRINGTON	2440	4110	4270	4640	6230	4340	46.6	50.7	50.1	48.7	49.5	49.1	13.4	13.5	14.2	13.7	13.3	13.6
AC METCALFE	2110	3500	4300	4190	6630	4150	47.9	51.2	50.9	49.4	53.1	50.5	13.7	13.4	14.8	13.4	13.1	13.7
PINNACLE	1810	3160	3910	4750	6550	4040	50.0	52.3	51.6	48.8	51.3	50.8	12.4	12.4	12.6	12.2	11.9	12.3
LEGACY	2200	3460	3980	3990	6450	4020	48.0	50.6	49.1	47.1	48.7	48.7	12.6	12.8	14.6	12.5	12.9	13.1
2004NZ052	2250	3410	3480	4370	6250	3950	49.5	51.1	49.8	49.2	51.5	50.2	14.0	14.0	14.9	13.8	13.4	14.0
05WA-328.8	1640	2750	3660	4250	5760	3610	48.2	50.2	49.1	47.2	49.2	48.8	13.7	13.2	14.9	13.5	13.5	13.8
Waxy Hulless																		
CLEARWATER	1930	3360	4090	4360	5890	3930	55.5	60.2	56.7	54.5	57.5	56.9	13.6	13.0	14.2	13.2	12.9	13.4
01WA-13860.5	2170	2930	4110	3800	6110	3820	56.9	60.0	55.7	55.3	58.9	**57.4**	14.9	13.7	15.0	13.8	13.6	14.2
03WA-204.22H	2270	2900	3900	3950	6100	3820	55.5	60.4	56.2	55.7	58.2	**57.2**	14.2	13.8	15.4	13.6	13.9	14.2
WA 9820-98	1980	3160	4160	4070	5350	3740	56.6	59.0	57.1	53.4	55.1	56.2	14.5	14.5	14.9	13.8	13.0	14.1
MERESSE	1960	2990	3200	3680	5200	3410	56.0	61.0	55.9	53.8	59.4	**57.2**	15.1	14.2	16.4	14.4	14.6	**15.0**
	STATISTICS						STATISTICS						STATISTICS					
CV (%)	11	9	9	8	5	8	1.4	0.9	1.4	2.7	1.8	1.7	2.9	4.3	1.7	3.9	2.3	3.1
LSD (0.10)	400	550	550	530	490	210	0.9	0.7	1.0	1.8	1.3	0.5	0.5	0.8	0.3	0.7	0.4	0.3
Average	2650	3700	4350	4760	6520	4400	49.8	52.7	51.4	49.9	52.1	51.2	13.4	13.3	14.4	13.3	13.0	13.5
Highest	3340	4480	5420	5620	7250	5050	56.9	61.0	57.1	55.7	59.4	57.4	15.1	14.5	16.4	14.4	14.6	15.0
Lowest	1640	2750	3200	3680	5200	3410	45.8	49.8	48.8	47.1	48.5	48.7	12.4	12.3	12.6	12.2	11.9	12.3

1. Spring barley grain yield across five locations in the 16”- 20” precipitation zone averaged 4400 lb/ac, 1340 lb/ac higher than the 2008 average. These trials were analyzed as alpha lattice designs that overall helped to account for within-replication variation and reduced LSD and CV values. The highest value and other values within the LSD range are shown in bold for yield, test weight, and protein. In 2009, the highest yielding cultivars were relatively recent releases and were significantly higher yielding than Baronesse, by up to 10%.
2. Test weight averaged 51.2 lb/bu across locations and entries, with a range of 48.7 lb/bu to 57.4 lb/bu. Test weights averaged 2.2 lb/bu higher than last year. Grain protein averaged 13.5%.