2010 WSU EXTENSION SPRING BARLEY NURSERY AT DAYTON, WA.

Variety Name					2010				
66WA-4124 5790 51.9 12.4 31 169 05WA-316.K 4220 5510 48.4 12.4 32 170 LENETAH 3940 4330 5530 51.7 12.7 34 169 O4WN2-124 3520 4000 5310 48.5 13.4 29 172 SPAULDING 4250 3590 3880 5230 51.8 11.8 34 168 OFWA-316.99 3820 4070 5190 52.0 12.2 35 168 OFMA-316.99 4170 3820 4070 5190 52.0 12.2 35 168 OFMA-316.91 4170 3820 4070 5190 52.0 12.2 35 168 OFMA-316.92 4130 5080 52.6 12.2 35 168 OWAS 1 4840 48.9 12.9 33 168 WAS 2 4850 33.0 48.0 12.9 32									
DSWA-316.K	2004NZ163				5940	50.4	12.5	30	172
LENETAH	06WA-412.4				5790	51.9	12.4	31	169
04WNZ-124 3520 4000 5310 48.5 13.4 29 172 SPALLDING 4250 3590 3880 5230 51.8 11.8 34 168 SOWA-316-99 3820 4070 5190 52.0 12.2 35 168 CHAMPION 4470 3820 4070 5190 52.0 12.2 35 168 2004N2151 5180 46.9 12.5 27 172 172 1580 46.9 12.5 27 172 168 66.0 12.2 35 167 168 168 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 11.8 34 168 16.8 16.8 16.8 16.8 16.7 16.7 12.9 33 168 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8	05WA-316.K			4220	5510	48.4	12.4	32	170
SPAULDING	LENETAH		3940	4330	5430	51.7	12.7	34	169
OSWA-316.99 3820 5230 48.5 11.8 34 169 CHAMPION 4470 3820 4070 5190 52.0 12.2 35 168 2004NZ151 5180 46.9 12.5 27 172 05WA-329.49 4130 5080 52.6 12.2 35 167 04WA-113.22 3580 3850 5050 50.9 12.3 32 168 WAS 2 4920 53.3 12.3 30 169 WAS 1 4840 48.9 12.9 33 168 06WA-458.14 4760 49.1 12.8 34 168 MZESES 3270 3010 3360 4760 49.1 12.8 34 168 RADIANT 4350 3710 3930 4740 49.8 12.4 35 170 TETONIA 3970 4690 50.0 12.1 33 170 DEARONESSE 4160	04WNZ-124		3520	4000	5310	48.5	13.4	29	172
CHAMPION 4470 3820 4070 5190 52.0 12.2 35 168 2004N2151 5180 46.9 12.5 27 172 DSWA-329.49 4130 5080 52.6 12.2 35 167 04WA-113.22 3580 3850 5050 50.9 12.3 32 168 WAS 1 4840 48.9 12.9 33 168 30 168 WAS 1 4840 48.9 12.9 33 168 34 168 MSA 51 4840 48.9 12.9 33 168 34 168 MSA 51 4860 48.0 49.1 12.8 34 168 34 168 MERESSE 3270 3010 3360 4760 60.9 12.1 33 169 RADIANT 4350 3710 3930 4740 49.8 12.4 35 170 BERONLESSE 4160 3580 <td>SPAULDING</td> <td>4250</td> <td>3590</td> <td>3880</td> <td>5230</td> <td>51.8</td> <td>11.8</td> <td>34</td> <td>168</td>	SPAULDING	4250	3590	3880	5230	51.8	11.8	34	168
2004NZ151	05WA-316.99			3820	5230	48.5	11.8	34	169
05WA-329.49 4130 5080 52.6 12.2 35 167 04WA-113.22 3580 3850 5050 50.9 12.3 32 168 WAS 2 4920 53.3 12.3 30 169 WAS 1 4840 48.9 12.9 33 168 06WA-458.14 4760 49.1 12.8 34 168 MERESSE 3270 3010 3360 4760 60.9 12.5 33 169 RADIANT 4350 3710 3930 4760 60.9 12.5 33 169 TETONIA 3970 4690 50.0 12.1 33 170 BARONESSE 4160 3580 3860 4550 48.7 12.9 32 170 DEWA-426.49 4560 47.6 12.6 33 169 PINNACLE 3140 4480 51.6 11.6 34 167 WAS 3 4060	CHAMPION	4470	3820	4070	5190	52.0	12.2	35	168
O4WA-113.22 3580 3850 5050 50.9 12.3 32 168 WAS 2 4920 53.3 12.3 30 169 WAS 1 4840 48.9 12.9 33 168 06WA-458.14 4760 49.1 12.8 34 168 MERESSE 3270 3010 3360 4760 60.9 12.5 33 169 RADIANT 4350 3710 3930 4740 49.8 12.4 35 170 TETONIA 3970 4690 50.0 12.1 33 170 BARONESSE 4160 3580 3860 4550 48.7 12.9 32 170 06WA-426.49 4540 48.4 12.6 32 168 PINNACLE 3140 4480 51.6 11.6 34 167 WZA3 450 48.7 12.9 34 169 BOB 4060 3530 3840	2004NZ151				5180	46.9	12.5	27	172
04WA-113.22 3580 3850 5050 50.9 12.3 32 168 WAS 2 4920 53.3 12.3 30 169 WAS 1 4840 48.9 12.9 33 168 06WA-458.14 4760 49.1 12.8 34 168 MERESSE 3270 3010 3360 4760 69.9 12.5 33 169 RADIANT 4350 3710 3930 4740 49.8 12.4 35 170 TETONIA 3970 4690 50.0 12.1 33 170 BARONESSE 4160 3580 3860 4550 48.7 12.9 32 170 DEWA-426.49 450 450 47.6 12.6 32 168 06WA-426.42 3140 4480 51.6 11.6 34 167 WLIS 4 450 48.7 12.9 34 169 460 47.9 13.1 <t< td=""><td>05WA-329.49</td><td></td><td></td><td>4130</td><td>5080</td><td>52.6</td><td>12.2</td><td>35</td><td>167</td></t<>	05WA-329.49			4130	5080	52.6	12.2	35	167
WAS 1 4840 48.9 12.9 33 168 OBWA-458.14 4760 49.1 12.8 34 168 MERESSE 3270 3010 3360 4760 60.9 12.5 33 169 RADIANT 4350 3710 3930 4760 49.8 12.4 35 170 TETONIA 3970 4690 50.0 12.1 33 170 BARONESSE 4160 3580 3860 4550 48.7 12.9 32 170 GWA-426.49 4500 4550 48.7 12.9 32 170 OEWA-426.49 4500 4450 48.4 12.6 32 168 OEWA-426.49 4460 48.4 48.6 11.6 34 167 WA54 4470 59.3 11.9 31 170 OEWA-426.2 4460 47.9 13.1 34 170 OTMB-390 4000 3530	04WA-113.22		3580	3850				32	168
06WA-458.14 4760 49.1 12.8 34 168 MERESSE 3270 3010 3360 4760 60.9 12.5 33 169 RADIANT 4350 3710 3930 4740 49.8 12.4 35 170 TETONIA 3970 4690 50.0 12.1 33 170 BARONESSE 4160 3580 3860 4550 48.7 12.9 32 170 06WA-426.49 4560 47.6 12.6 32 168 06WA-423.21 4540 48.4 12.6 33 169 PINNACLE 3140 4480 51.6 11.6 34 167 WAS 4 42.4 4470 59.3 11.9 31 170 06WA-426.42 4470 59.3 11.9 31 170 OFWA 5.9 4060 3530 3840 4350 51.1 13.1 34 168 BOB 4060 3530 3840	WAS 2				4920	53.3	12.3	30	169
MERESSE 3270 3010 3360 4760 60.9 12.5 33 169 RADIANT 4350 3710 3930 4740 49.8 12.4 35 170 TETONIA 3970 4690 50.0 12.1 33 170 BARONESSE 4160 3580 3860 4550 48.7 12.9 32 170 06WA-426.49 4550 47.6 12.6 32 168 06WA-423.21 4540 48.4 12.6 33 169 PINNACLE 3140 4480 51.6 11.6 34 167 WAS 4 4470 59.3 11.9 31 170 06WA-426.42 4470 4450 48.7 12.9 34 169 BOB 4060 3530 3840 4350 51.1 13.1 34 170 CDC MEREDITH 4120 46.2 12.7 33 171 06WA-30.9	WAS 1				4840	48.9	12.9	33	168
MERESSE 3270 3010 3360 4760 60.9 12.5 33 169 RADIANT 4350 3710 3930 4740 49.8 12.4 35 170 TETONIA 3970 4690 50.0 12.1 33 170 BARONESSE 4160 3580 3860 4550 48.7 12.9 32 170 06WA-426.49 4550 47.6 12.6 32 168 06WA-423.21 4540 48.4 12.6 33 169 PINNACLE 3140 4480 51.6 11.6 34 167 WAS 4 4470 59.3 11.9 31 170 06WA-426.42 4470 4450 48.7 12.9 34 169 BOB 4060 3530 3840 4350 51.1 13.1 34 170 CDC MEREDITH 4120 46.2 12.7 33 171 06WA-30.9	06WA-458.14				4760	49.1	12.8	34	168
RADIANT 4350 3710 3930 4740 49.8 12.4 35 170 TETONIA 3970 4690 50.0 12.1 33 170 BARONESSE 4160 3580 3860 4550 48.7 12.9 32 170 06WA-426.49 4550 48.7 12.6 32 168 06WA-423.21 4540 48.4 12.6 33 169 PINNACLE 3140 4480 51.6 11.6 34 167 WA54 4470 59.3 11.9 31 170 06WA-426.42 4470 59.3 11.9 31 170 06WA-390 4460 35.30 3840 4350 51.1 13.1 34 168 06WA-406.28 4060 3530 3840 4350 51.1 13.1 34 168 06WA-406.28 4060 3530 3840 4350 51.1 13.1 35 168 </td <td>MERESSE</td> <td>3270</td> <td>3010</td> <td>3360</td> <td>4760</td> <td>60.9</td> <td>12.5</td> <td>33</td> <td>169</td>	MERESSE	3270	3010	3360	4760	60.9	12.5	33	169
TETONIA 3970 4690 50.0 12.1 33 170 BARONESSE 4160 3580 3860 4550 48.7 12.9 32 170 06WA-426.49 4550 47.6 12.6 32 168 D6WA-423.21 4550 48.4 12.6 33 169 PINNACLE 3140 4480 51.6 11.6 34 167 WAS 4 4470 59.3 11.9 31 170 06WA-426.42 4470 59.3 11.9 31 170 06WA-306.90 4060 3530 3840 4350 51.1 13.1 34 170 CDC MEREDITH 4120 46.2 12.7 33 171 06WA-406.28 4040 45.1 13.4 34 168 06WA-406.28 4040 46.2 12.7 33 171 06WA-406.29 45.0 45.1 13.4 34 168 M		4350	3710	3930	4740	49.8	12.4	35	170
BARONESSE 4160 3580 3860 4550 48.7 12.9 32 170 06WA-426.49 4560 47.6 12.6 32 168 06WA-423.21 4540 48.4 12.6 33 169 PINNACLE 3140 4480 51.6 11.6 34 167 WAS 4 4470 59.3 11.9 31 170 06WA-426.42 4460 47.9 13.1 34 170 07MB-390 4450 48.7 12.9 34 169 BOB 4060 3530 3840 4350 51.1 13.1 34 168 06WA-406.28 4060 3530 3840 4350 51.1 13.1 34 168 06WA-421.23 4100 46.2 13.1 35 168 168 168 168 168 168 168 168 168 168 168 168 168 168 168	TETONIA			3970	4690	50.0	12.1	33	170
06WA-426.49 4550 47.6 12.6 32 168 06WA-423.21 4540 48.4 12.6 33 169 PINNACLE 3140 4480 51.6 11.6 34 167 WAS 4 4470 59.3 11.9 31 170 06WA-426.42 4460 47.9 13.1 34 170 07MB-390 4450 48.7 12.9 34 169 BOB 4060 3530 3840 4350 51.1 13.1 34 168 06WA-406.28 4300 45.4 13.2 34 170 CDC MEREDITH 4120 46.2 12.7 33 171 06WA-406.9 4040 46.2 13.1 35 168 06WA-406.9 3940 45.1 13.4 34 169 WAS 3 2780 3060 3940 59.7 12.6 34 168 AC METCALFE 3360 2720 2990 3860 48.6 13.0 34 168 H		4160	3580			48.7	12.9	32	170
PINNACLE 3140 4480 51.6 11.6 34 167 WAS 4 4470 59.3 11.9 31 170 06WA-426.42 4460 47.9 13.1 34 170 07MB-390 4450 48.7 12.9 34 169 BOB 4060 3530 3840 4350 51.1 13.1 34 168 06WA-406.28 4300 45.4 13.2 34 170 CDC MEREDITH 4120 46.2 12.7 33 171 06WA-4106.9 3940 45.1 13.4 34 168 06WA-406.9 2780 3060 3940 45.1 13.4 34 168 06WA-406.9 2780 3060 3940 59.7 12.6 34 168 AC METCALFE 3360 2720 2990 3860 48.6 13.0 34 168 HAXBY 3340 3330 3790 53.0 <td></td> <td></td> <td></td> <td></td> <td>4550</td> <td>47.6</td> <td>12.6</td> <td>32</td> <td>168</td>					4550	47.6	12.6	32	168
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06WA-426.42 4460 47.9 13.1 34 170 07MB-390 4450 48.7 12.9 34 169 BOB 4060 3530 3840 4350 51.1 13.1 34 168 06WA-406.28 4300 45.4 13.2 34 170 CDC MEREDITH 4120 46.2 12.7 33 171 06WA-421.23 4040 46.2 13.1 35 168 06WA-406.9 2780 3060 3940 45.1 13.4 34 169 WAS 3 2780 3060 3940 59.7 12.6 34 168 AC METCALFE 3360 2720 2990 3860 48.6 13.0 34 168 HAXBY 3340 3330 3790 53.0 12.4 34 168 HARRINGTON 3570 2960 3080 3710 46.7 13.1 34 170 BENTLEY 3570 47.8 12.8 38 167 CDC COPELAND <	WAS 4				4470	59.3	11.9	31	170
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06WA-406.28 4300 45.4 13.2 34 170 CDC MEREDITH 4120 46.2 12.7 33 171 06WA-421.23 4040 46.2 13.1 35 168 06WA-406.9 3940 45.1 13.4 34 169 WAS 3 2780 3060 3940 59.7 12.6 34 168 AC METCALFE 3360 2720 2990 3860 48.6 13.0 34 168 HAXBY 3340 3330 3790 53.0 12.4 34 168 HARRINGTON 3570 2960 3080 3710 46.7 13.1 34 170 BENTLEY 3570 47.8 12.8 38 167 CLEARWATER 2660 2670 3180 47.3 13.0 36 170 COC COPELAND 9 8 8 8 1.3 3.2 4 1 LSD '@.10' 210 240 310 490 0.9 0.6 2 1		4060	3530	3840				34	
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06WA-421.23 4040 46.2 13.1 35 168 06WA-406.9 3940 45.1 13.4 34 169 WAS 3 2780 3060 3940 59.7 12.6 34 168 AC METCALFE 3360 2720 2990 3860 48.6 13.0 34 168 HAXBY 3340 3330 3790 53.0 12.4 34 168 HARRINGTON 3570 2960 3080 3710 46.7 13.1 34 170 BENTLEY 3570 47.8 12.8 38 167 CLEARWATER 2660 3390 59.4 13.2 36 170 CDC COPELAND 2660 2670 3180 47.3 13.0 36 170 C.V. % 9 8 8 8 1.3 3.2 4 1 LSD '@.10' 210 240 310 490 0.9 0.6 2 1 Average 3940 3460 3610 4590 50.4 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>33</td> <td></td>								33	
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Highest 4470 3940 4330 5940 60.9 13.4 38 172	_								
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	Lowest								

<u>Dayton Spring Barley – Preliminary Data</u>

- 1. Grain yield in the Dayton spring barley trial averaged 4590 pounds/acre, 650 pounds/acre higher than the 5-year average for this location. The Dayton nursery was located 6 miles north of Dayton, WA (Jay Penner, cooperator).
- 2. This nursery was seeded on 19 March, 2010 following winter wheat. Seed was placed at a 90#/ acre seeding rate using a double disk plot drill set on 6-inch spacing. Base applied fertilizer was 100#N/acre and a pre-fertilization soil sample showed an additional 84#N residual. Spring seeding conditions were good, but early spring conditions were dry until unusually prolific rainfall started in May. At the field tour for this location, on June 29, many spring wheat varieties were covered with stripe rust, but we did not find inflection in the barley. Different types of stripe rust attack wheat and barley and we did not see significant barley stripe rust this year. The Alpha Lattice experimental designs improved variation allocation during statistical analysis and the CV by 19% compared to a RCBD design.
- 3. Yields ranged from 3180 lb/ac to 5940 lb/ac. Yield values within the LSD range of the highest yield are shown in bold and 3 of the 36 entries are in this group. All entries were 2-row and hulless entries are listed in italic.
- 4. Test weights were good with an average of 50.4 lb/bu and ranged from 45.1 to 60.9 lb/bu with the high values produced by hulless cultivars. Grain protein averaged 12.6% and the average plant height averaged 33 inches.