

# 2011 WSU Variety Testing Hard Winter Wheat Trial Summary

## Precipitation Zone 12-16"

Variety Name	Almira	Lamont	Average	Almira	Lamont	Average	Almira	Lamont	Average
	<b>Yield (Bu/A)</b>			<b>Test Weight (Lbs/A)</b>			<b>Protein (%)</b>		
<b>Hard Red Winter</b>									
WA 8120	112	152	<b>132</b>	57.0	59.2	58.1	11.9	12.0	<b>11.9</b>
ML9W05-2501	123	115	<b>119</b>	60.8	62.4	61.6	13.1	11.8	<b>12.5</b>
Norwest 553	81	153	<b>117</b>	62.1	62.2	<b>62.2</b>	12.1	12.6	<b>12.4</b>
WA 8119	83	151	<b>117</b>	55.5	59.3	57.4	13.9	11.9	<b>12.9</b>
Esperia	108	122	<b>115</b>	60.6	61.1	60.9	13.0	12.8	<b>12.9</b>
Boundary	111	107	109	59.5	60.8	60.1	12.5	11.5	<b>12.0</b>
Azimut	111	103	107	54.1	58.3	56.2	12.8	12.0	<b>12.4</b>
IDO656	97	115	106	57.4	62.1	59.8	13.5	12.4	<b>13.0</b>
Bauermeister	98	105	101	56.4	59.8	58.1	14.1	11.1	<b>12.6</b>
Genesi	85	105	95	60.8	60.9	60.8	12.7	12.2	<b>12.5</b>
Whetstone	81	107	94	60.5	62.3	61.4	12.4	12.1	<b>12.2</b>
Farnum	89	99	94	59.3	60.4	59.9	13.1	12.5	<b>12.8</b>
WA 8118	87	99	93	58.9	61.6	60.2	13.0	12.9	<b>12.9</b>
Peregrine	84	100	92	60.0	62.8	61.4	12.5	11.9	<b>12.2</b>
Accipiter	84	95	90	59.8	63.2	61.5	12.4	11.5	<b>11.9</b>
Eddy	73	104	89	61.6	63.2	<b>62.4</b>	12.3	12.2	<b>12.3</b>
Finley	75	101	88	60.3	62.6	61.5	13.2	12.8	<b>13.0</b>
WA 8070	77	96	87	58.9	62.1	60.5	14.1	11.6	<b>12.8</b>
AgriPro Paladin	84	82	83	60.3	61.2	60.7	13.0	12.0	<b>12.5</b>
WB-Tucson	67	93	80	61.0	63.2	<b>62.1</b>	12.5	11.8	<b>12.1</b>
Hatton	73	69	71	64.1	62.8	<b>63.5</b>	11.3	12.0	<b>11.7</b>
Altigo	59	77	68	58.0	58.3	58.2	11.8	11.4	11.6
<b>Hard White Winter</b>									
OR2080111H	111	118	<b>115</b>	57	61	59.2	13	12	<b>12.2</b>
UI Silver	97	116	106	59.5	63.2	61.3	12.2	11.5	<b>11.9</b>
MDM	92	116	104	56.8	60.5	58.7	12.5	9.8	11.2
WA 8096	81	107	94	54.7	58.9	56.8	12.5	11.2	<b>11.9</b>
IDO835	80	103	92	60.1	61.2	60.7	11.5	10.2	10.9
OR2080156H	66	105	85	61	61	60.8	12	13	<b>12.3</b>
UICF-Grace	69	83	76	60.2	61.6	60.9	12.6	11.8	<b>12.2</b>
<b>Soft White Winter</b>									
Eltan	88	99	94	55	60	57.2	13	11	<b>12.0</b>
<b>C.V.</b>	18	15	17	3	1	1.9	9	6	7.5
<b>LSD</b>	32	32	22	3	1	1.6	2	1	1.3
<b>Average</b>	88	107	97	59	61	60.1	13	12	12.2
<b>Highest</b>	123	153	132	64	63	63.5	14	13	13.0
<b>Lowest</b>	59	69	68	54	58	56.2	11	10	10.9

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### Precipitation Zone 12-16" – Preliminary Data

1. Hard red and white winter wheat grain yield across two locations and 30 entries in the 12-16" precipitation zone averaged 97 bushels/acre, 7 bushels/acre higher than the 2010 average of 90 bushels/acre and 9 bushels/acre higher than the 2009 average of 88 bushels/acre. The CV for the average data was 17 slightly higher than the 2010 CV value. Much of the variation at Almira is due to snow mold overwinter that created stand loss unevenly across the trial. In general trials had good fall establishment.
2. Yields among entries averaged across locations ranged from 68 to 132 bushels/acre and reflected the favorable precipitation and temperature though most of the growing season and snow mold at Almira. Norwest 553 was the highest yielding named variety averaged across locations. Average yield values within the 10% LSD range (22 bushels/acre) of the highest yield are shown in bold and this included 5 of the 30 entries. Stripe rust reduced yields of susceptible varieties by 10% or more at both locations. The Almira trial did not have fungicide applied, while fungicide was applied twice at Lamont.
3. Test weight averaged 60.1 lb/bu across locations and entries and was higher than last year's 58.0 lb/bu average. Grain protein averaged 12.2% and was less than last year's 13.0% value.