

## 2011 WSU Variety Testing Hard Winter Wheat Trial Summary

### Precipitation Zone <12"

Variety Name	Yield (Bu/A)						Test Weight (Lbs/A)						Protein (%)					
	Connell	Horse Heaven	Lind	Ritzville	St. Andrews	Average	Connell	Horse Heaven	Lind	Ritzville	St. Andrews	Average	Connell	Horse Heaven	Lind	Ritzville	St. Andrews	Average
<b>Hard Red Winter</b>	<b>Yield (Bu/A)</b>						<b>Test Weight (Lbs/A)</b>						<b>Protein (%)</b>					
WA 8119	76	66	59	78	72	<b>70</b>	61.3	60.7	60.9	58.9	61.0	60.5	12.2	7.8	12.2	9.9	9.0	10.2
WA 8120	76	66	56	77	72	<b>69</b>	61.0	60.5	61.3	59.9	61.1	60.8	12.1	8.3	12.3	9.2	9.4	10.3
Farnum	56	72	58	62	61	62	60.2	60.8	60.6	58.6	61.1	60.2	12.9	9.3	13.0	11.5	9.2	<b>11.2</b>
ML9W05-2501	66	62	49	69	60	61	61.7	63.1	62.3	61.3	62.8	62.2	13.9	10.3	13.7	10.9	9.8	<b>11.7</b>
Norwest 553	76	59	36	79	57	61	62.6	62.3	62.2	60.2	62.2	61.9	12.6	9.8	13.9	10.4	10.4	<b>11.4</b>
IDO656	61	55	47	70	70	61	60.4	62.6	62.1	60.8	63.0	61.8	13.2	9.3	13.9	10.7	10.0	<b>11.4</b>
Bauermeister	57	66	55	63	65	61	60.9	61.1	61.2	59.7	61.4	60.9	12.6	8.5	12.0	9.8	7.9	10.2
Azimut	68	57	36	80	55	59	60.7	60.2	60.6	56.3	59.6	59.5	11.8	9.9	12.5	10.7	11.5	<b>11.3</b>
WA 8070	57	62	48	61	60	58	61.2	61.7	61.7	60.2	62.4	61.4	12.5	9.6	12.1	10.7	9.9	11.0
Genesi	65	53	36	87	43	57	61.3	61.7	60.2	60.8	62.0	61.2	13.3	11.0	12.8	11.0	11.4	<b>11.9</b>
Boundary	46	53	42	74	64	56	61.7	61.7	60.3	60.8	61.8	61.3	12.9	9.7	12.3	9.6	9.3	10.7
WA 8118	65	58	45	57	55	56	60.5	61.8	61.6	59.5	61.9	61.1	13.6	10.3	14.2	11.8	10.1	<b>12.0</b>
WB-Tucson	57	62	40	63	51	55	63.9	63.9	62.2	62.7	63.8	<b>63.3</b>	12.1	9.7	12.9	11.0	11.1	<b>11.4</b>
Finley	60	54	44	55	57	54	63.4	64.1	62.8	62.2	63.9	<b>63.3</b>	12.4	9.5	12.3	10.5	10.0	10.9
Accipiter	46	60	40	72	51	54	63.1	62.7	62.2	62.7	62.7	62.7	12.0	8.8	11.7	9.8	9.7	10.4
Whetstone	58	51	42	69	46	53	62.6	63.1	62.0	59.3	63.0	62.0	12.4	10.7	13.0	11.6	11.0	<b>11.7</b>
Eddy	46	59	36	57	58	51	63.8	63.6	62.0	62.3	63.5	<b>63.1</b>	12.1	10.2	12.2	11.4	9.7	11.1
Peregrine	51	47	40	60	58	51	62.6	62.6	62.2	60.6	63.0	62.2	11.0	10.3	11.7	12.0	9.3	10.9
AgriPro Paladin	45	45	40	68	52	50	63.1	63.5	62.2	62.4	63.1	<b>62.9</b>	12.7	11.2	12.7	11.7	10.8	<b>11.8</b>
Altigo	42	50	29	83	40	49	59.4	59.4	58.5	56.2	58.6	58.4	11.7	10.0	11.8	9.7	11.2	10.9
Esperia	49	41	28	69	49	47	61.8	62.4	60.9	61.5	62.5	61.8	12.9	10.5	13.6	10.3	10.8	<b>11.6</b>
Hatton	36	51	23	58	48	43	64.8	64.1	60.4	63.6	64.4	<b>63.4</b>	12.0	9.6	11.9	9.5	10.2	10.7
<b>Hard White Winter</b>																		
MDM	56	69	49	72	59	61	61.3	61.9	61.6	61.7	61.4	61.6	11.5	8.4	11.3	7.3	7.6	9.2
OR2080111H	73	60	37	83	53	61	61.4	61.3	59.8	59.3	60.6	60.5	11.7	8.7	12.7	10.4	8.5	10.4
WA 8096	57	54	48	71	67	59	60.5	60.8	60.1	56.8	61.5	59.9	11.5	8.7	11.0	10.8	7.1	9.8
UI Silver	59	62	40	71	60	58	62.2	63.3	62.9	60.4	63.4	62.4	12.2	9.7	13.2	9.7	9.5	10.9
IDO835	44	59	37	70	57	53	62.6	62.3	61.4	61.0	62.3	61.9	12.4	8.4	11.6	9.3	8.3	10.0
OR2080156H	51	45	34	74	55	52	61.6	62.2	60.8	59.7	61.9	61.2	12.7	9.7	13.1	11.1	10.7	<b>11.4</b>
UICF-Grace	54	52	36	56	38	47	60.2	61.7	60.7	58.4	61.4	60.5	12.8	10.1	13.2	11.2	10.1	<b>11.5</b>
<b>Soft White Winter</b>																		
Eltan	59	62	51	78	58	61	61.1	60.8	61.0	58.6	59.9	60.3	11.6	8.6	11.1	10.3	8.7	10.1
<b>CV (%)</b>	7	18	12	11	16	13	0.7	0.7	0.6	1.9	0.7	1.0	3.5	9.8	3.2	12.8	9.5	8.1
<b>LSD (0.10)</b>	8	20	10	15	18	6	0.9	0.9	0.7	2.2	0.8	0.5	0.8	1.8	0.8	2.6	1.8	0.8
<b>Average</b>	57	57	42	69	56	56	61.8	62.1	61.3	60.2	62.0	61.5	12.4	9.6	12.5	10.5	9.7	10.9
<b>Highest</b>	76	72	59	87	72	70	64.8	64.1	62.9	63.6	64.4	63.4	13.9	11.2	14.2	12.0	11.5	12.0
<b>Lowest</b>	36	41	23	55	38	43	59.4	59.4	58.5	56.2	58.6	58.4	11.0	7.8	11.0	7.3	7.1	9.2

## 2011 WSU Hard Winter Wheat Trial Summary

### Precipitation Zone <12" – Preliminary Data

1. Hard red and white winter wheat grain yield across five locations and 30 entries in the <12" precipitation zone averaged 56 bushels/acre, 12 bushels/acre higher than the 2010 average of 44 bushels/acre and 24 bushels/acre higher than the 2009 average of 32 bushels/acre. The CV for the average data was 13 similar to the 2010 CV value. In general the trials had good fall establishment.
2. Yields among entries averaged across locations ranged from 43 to 70 bushels/acre and reflected the favorable precipitation and temperature though most of the growing season. Farnum was the highest yielding named variety averaged across locations. Average yield values within the 10% LSD range (6 bushels) of the highest yield are shown in bold and this included 2 of the 30 entries. Stripe rust significantly reduced yields in the 20-30% or more range for susceptible entries at Connell, despite a fungicide application at each location. At the Horse Heaven and Ritzville sites there were two fungicide applications that effectively controlled stripe rust. At Lind and St. Andrews no fungicides were applied but stripe rust was not a factor.
3. Test weight averaged 61.5 lb/bu across locations and entries and was higher than last year's 60.0 lb/bu average. Grain protein averaged 10.9% and was lower than last year's 11.9% value.