

# 2011 WSU Variety Testing Hard Winter Wheat Trial Summary

## Precipitation Zone >16"

Variety Name	Yield (Bu/A)					Test Weight (Lbs/A)					Protein (%)				
	Dayton	Reardan	Pullman	Walla Walla	Average	Dayton	Reardan	Pullman	Walla Walla	Average	Dayton	Reardan	Pullman	Walla Walla	Average
<b>Hard Red Winter</b>	<b>Yield (Bu/A)</b>					<b>Test Weight (Lbs/A)</b>					<b>Protein (%)</b>				
Altigo	161	143	169	150	156	58.6	58.5	59.8	59.2	59.0	12.9	11.8	12.0	11.9	12.1
Norwest 553	179	118	167	139	151	63.1	61.4	63.7	61.8	62.5	13.2	11.8	12.2	12.7	12.5
Genesi	163	139	161	132	149	63.1	61.8	62.7	61.2	62.2	13.7	13.0	12.2	13.3	13.1
Azimet	133	135	157	166	148	57.4	58.4	58.6	59.1	58.4	13.9	11.9	12.2	11.7	12.4
WA 8120	133	164	177	116	147	56.8	60.6	59.3	59.1	59.0	12.8	11.1	12.1	11.5	11.9
WA 8119	114	159	186	125	146	57.7	59.4	57.9	59.7	58.6	13.1	12.0	12.2	11.5	12.2
ML9W05-2501	146	140	190	96	143	61.9	62.8	63.5	58.9	61.8	13.8	12.7	12.6	13.0	13.0
Whetstone	132	143	161	99	134	58.6	63.1	63.7	59.6	61.2	14.4	11.6	12.3	13.6	13.0
IDO656	107	151	174	95	132	59.7	62.1	62.9	58.4	60.8	14.3	12.7	12.5	12.7	13.1
WB-Tucson	125	126	143	97	123	61.8	63.8	64.0	61.4	62.8	13.3	11.2	11.8	12.4	12.2
Boundary	114	110	155	113	123	61.9	62.2	62.8	61.1	62.0	12.5	11.7	11.7	11.5	11.9
Esperia	147	123	129	84	121	61.5	62.0	63.0	59.4	61.5	13.2	12.4	12.8	13.7	13.0
Bauermeister	110	120	153	96	120	59.2	61.7	60.7	59.8	60.3	13.9	10.6	12.2	11.7	12.1
WA 8118	97	115	167	93	118	60.8	62.4	63.7	61.1	62.0	15.3	13.8	13.7	12.9	13.9
AgriPro Paladin	107	108	135	113	116	59.3	61.7	62.6	60.5	61.0	13.5	11.3	12.4	12.3	12.4
WA 8070	89	132	150	90	115	61.0	63.4	63.0	61.1	62.1	14.2	10.8	12.1	11.4	12.1
Eddy	126	107	137	82	113	62.6	62.9	63.6	61.5	62.6	13.4	11.7	11.8	11.9	12.2
Peregrine	95	106	156	83	110	62.6	63.5	64.2	61.2	62.9	14.1	10.9	11.4	11.5	12.0
Finley	102	108	152	77	109	63.4	64.0	64.9	62.4	63.7	13.8	12.9	12.6	12.6	13.0
Accipiter	112	106	130	82	108	60.5	63.1	63.2	60.3	61.8	13.1	11.3	11.5	11.3	11.8
Farnum	96	108	129	68	100	61.4	62.0	61.5	59.0	61.0	14.9	13.5	13.4	13.9	13.9
Hatton	91	78	118	51	85	63.5	65.5	65.0	59.2	63.3	13.1	12.2	11.7	12.2	12.3
<b>Hard White Winter</b>	<b>Yield (Bu/A)</b>					<b>Test Weight (Lbs/A)</b>					<b>Protein (%)</b>				
OR2080111H	162	144	163	145	154	60.8	60.6	61.5	60.1	60.8	13.3	11.8	12.0	11.9	12.2
OR2080156H	154	119	165	148	147	61.3	61.7	63.0	60.9	61.7	13.2	11.5	12.3	11.3	12.1
UI Silver	137	131	167	90	131	61.6	63.4	63.8	58.1	61.7	12.9	10.6	10.9	13.0	11.9
WA 8096	100	140	155	116	128	57.3	60.3	60.4	58.3	59.1	13.8	11.5	12.0	10.8	12.0
MDM	115	112	167	92	121	59.9	61.6	61.2	59.4	60.5	12.7	10.3	11.7	10.1	11.2
IDO835	108	113	135	92	112	60.6	62.8	61.9	59.8	61.3	12.0	10.2	10.3	11.9	11.1
UICF-Grace	73	100	137	80	97	58.8	62.3	63.3	58.9	60.8	15.2	12.1	12.3	13.3	13.2
<b>Soft White Winter</b>	<b>Yield (Bu/A)</b>					<b>Test Weight (Lbs/A)</b>					<b>Protein (%)</b>				
Eltan	122	140	161	103	132	59.3	61.6	60.5	58.0	59.9	13.5	11.1	11.1	11.9	11.9
<b>CV (%)</b>	9	9	9	12	10	1.4	0.8	0.6	1.5	1.1	4.9	6.8	2.8	6.4	5.4
<b>LSD (0.10)</b>	21	22	29	25	12	1.7	1.0	0.7	1.7	0.7	1.3	1.6	0.7	1.5	0.6
<b>Average</b>	122	125	155	104	126	60.5	62.0	62.3	59.9	61.2	13.6	11.7	12.1	12.2	12.4
<b>Highest</b>	179	164	190	166	156	63.5	65.5	65.0	62.4	63.7	15.3	13.8	13.7	13.9	13.9
<b>Lowest</b>	73	78	118	51	85	56.8	58.4	57.9	58.0	58.4	12.0	10.2	10.3	10.1	11.1

## 2011 WSU Hard Winter Wheat Trial Summary

### Precipitation Zone >16" – Preliminary Data

1. Hard red and white winter wheat grain yield across four locations and 30 entries in the >16" precipitation zone averaged 126 bushels/acre, 22 bushels/acre higher than the 2010 average of 104 bushels/acre and 21 bushels/acre higher than the 2009 average of 105 bushels/acre. The CV for the average data was 10 and was lower than the 2010 CV value. In general the trials had good fall establishment.
2. Yields among entries averaged across locations ranged from 85 to 156 bushels/acre and reflected the favorable precipitation and temperature though most of the growing season. Altigo was the highest yielding named variety averaged across locations. Average yield values within the 10% LSD range (12 bushels) of the highest yield are shown in bold and this included 6 of the 30 entries. Stripe rust significantly reduced yields in most of these locations and influenced yield rankings based on susceptibility. Fungicide applications and yield impacts in percent for these locations were: one fungicide and 20% impact at Walla Walla, three and 20% at Pullman, three and 15% at Dayton, and 1 and low at Reardan.
3. Test weight averaged 61.2 lb/bu across locations and entries and was higher than last year's 58.5 lb/bu average. Grain protein averaged 12.4% and was the same as last year's value.