

2011 WSU Variety Testing Hard Winter Wheat Trial, Ritzville

Variety Name <small>*Hard White Italized</small>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2011					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
Genesi				87	60.8	11.0	0	34	179
Altigo				83	56.2	9.7	0	36	180
OR2080111H				83	59.3	10.4	0	37	178
Azimut				80	56.3	10.7	0	34	180
Norwest 553	46	57	64	79	60.2	10.4	0	33	179
Eltan (SWW Check)	60	72	73	78	58.6	10.3	0	39	184
WA 8119			75	78	58.9	9.9	0	40	183
WA 8120			77	77	59.9	9.2	0	39	183
Boundary	52	60	65	74	60.8	9.6	0	39	181
OR2080156H			58	74	59.7	11.1	0	37	184
MDM	53	65	67	72	61.7	7.3	0	39	184
Accipiter		59	63	72	62.7	9.8	0	41	184
WA 8096		64	66	71	56.8	10.8	0	41	185
UI Silver		63	62	71	60.4	9.7	0	39	182
IDO656				70	60.8	10.7	0	45	183
IDO835				70	61.0	9.3	0	39	183
Whetstone	45	57	58	69	59.3	11.6	0	38	178
Esperia		46	44	69	61.5	10.3	0	33	179
ML9W05-2501				69	61.3	10.9	0	43	182
AgriPro Paladin	46	54	56	68	62.4	11.7	0	38	179
Bauermeister	52	61	63	63	59.7	9.8	0	40	185
WB-Tucson		60		63	62.7	11.0	0	38	180
Farnum	51	61	62	62	58.6	11.5	0	42	184
WA 8070		59	58	61	60.2	10.7	0	43	183
Peregrine		60	62	60	60.6	12.0	0	43	183
Hatton	47	54	53	58	63.6	9.5	0	43	184
Eddy	43	49	49	57	62.3	11.4	0	37	179
WA 8118			51	57	59.5	11.8	0	41	178
UICF-Grace		50	49	56	58.4	11.2	0	47	181
Finley	47	55	54	55	62.2	10.5	0	44	181
C.V.	18	14	12	11	1.9	12.8	0	3	0
LSD	5	7	9	15	2.2	2.6	0	3	2
Average	49	58	60	69	60.2	10.5	0	39	182
Highest	60	72	77	87	63.6	12.0	0	47	185
Lowest	43	46	44	55	56.2	7.3	0	33	178

Ritzville Hard Winter Wheat – Preliminary Data

1. Grain yield in the Ritzville hard winter wheat trial averaged 69 bushels/acre, 20 bushels/acre higher than the 5-year average. Higher yields were enabled by favorable spring precipitation and temperatures. The Ritzville nursery was located about four miles west of Ritzville, WA (R. Jirava farm).
2. This nursery was seeded on 3 September, 2010 following summer fallow. Seed was placed at a 45#/acre seeding rate using a deep furrow plot drill set on 15-inch spacing. Base fertilizer was 60#N and a spring soil test analysis showed an adequate N supply for hard protein levels at projected, historic yield levels. Fall seeding conditions were favorable and emergence and stand establishment were good.
3. Yields ranged from 55 bu/ac to 87 bu/ac. Genesi was the highest yielding entry in this trial. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 12 of the 30 entries. The cool and wet spring conditions along with local inoculum sources created early, high levels of stripe rust potential at this location. Fungicide was applied 30 April and again 30 May and controlled stripe rust across the trial. The Lattice design was 101% efficient compared to an RCBD.
4. Test weights were good with an average of 60.2 lb/bu. Grain protein averaged 10.5% but was highly variable across the trial with a range of 7.3 to 12.0%. Protein overall was lower than predicted because yield levels exceeded expectations by over 50%. Plant height averaged 39 inches with no lodging.