

2011 WSU Variety Testing Hard Winter Wheat Trial, Walla Walla

Variety Name <i>*Hard White Italized</i>	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
Azimut	--			166	59.1	11.7	52	38	147
Altigo	--			150	59.2	11.9	25	39	150
OR2080156H	--		134	148	60.9	11.3	52	41	148
OR2080111H	--			145	60.1	11.9	91	40	148
Norwest 553	--	137	139	139	61.8	12.7	53	37	151
Genesi	--			132	61.2	13.3	98	39	145
WA 8119	--		97	125	59.7	11.5	93	42	154
WA 8096	--	95	86	116	58.3	10.8	95	44	157
WA 8120	--		101	116	59.1	11.5	92	43	154
Boundary	--	104	101	113	61.1	11.5	98	43	151
AgriPro Paladin	--	113	109	113	60.5	12.3	93	42	150
Eltan (SWW Check)	--	88	80	103	58.0	11.9	99	42	157
Whetstone	--	101	89	99	59.6	13.6	95	43	147
WB-Tucson	--	112		97	61.4	12.4	99	43	151
Bauermeister	--	92	84	96	59.8	11.7	98	42	155
ML9W05-2501	--			96	58.9	13.0	98	42	152
IDO656	--			95	58.4	12.7	96	45	152
WA 8118	--		83	93	61.1	12.9	98	46	144
MDM	--	84	74	92	59.4	10.1	98	43	156
IDO835	--			92	59.8	11.9	99	41	154
WA 8070	--	86	78	90	61.1	11.4	93	44	157
UI Silver	--	95	86	90	58.1	13.0	99	45	153
Esperia	--	98	81	84	59.4	13.7	99	38	145
Peregrine	--	86	76	83	61.2	11.5	90	43	150
Eddy	--	94	80	82	61.5	11.9	96	42	150
Accipiter	--	94	82	82	60.3	11.3	94	42	152
UICF-Grace	--	79	73	80	58.9	13.3	99	47	153
Finley	--	69	67	77	62.4	12.6	99	51	153
Farnum	--	66	55	68	59.0	13.9	94	44	160
Hatton	--	62	49	51	59.2	12.2	99	43	155
C.V.	--	16	18	12	1.5	6.4	15	8	1
LSD	--	14	20	25	1.7	1.5	26	7	4
Average	--	92	87	104	60.0	12.2	89	42	152
Highest	--	137	139	166	62.4	13.9	99	51	160
Lowest	--	62	49	51	58.0	10.1	25	37	144

Walla Walla Hard Winter Wheat – Preliminary Data

1. Grain yield in the Walla Walla hard winter wheat trial averaged 104 bushels/acre, 8 bushels/acre higher than the 3-year average. The Walla Walla nursery was located about 7 miles north of Walla Walla, WA (Tom and Jason Beechinor, cooperators).
2. This nursery was seeded on 28 September, 2010 following summer fallow. Seed was placed at an 85#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Fall seeding conditions were favorable and emergence and stand establishment were good. A spring soil test showed 156#N/acre available and an additional 136#N/acre was applied in the spring to supply adequate N for hard wheat protein based on expected yields.
3. Yields ranged from 51 bu/ac to 166 bu/ac. Azimut 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 4 of the 30 entries. Stripe rust potential was very high at this location with early infection and season long pressure. Fungicide was applied once 16 June to the trial. Stripe rust impact on yield is estimated to be 20% or more for susceptible entries. There was a high level of lodging in this trial and it influenced yields and increased variability. The Lattice design was 117% efficient compared to an RCBD.
4. Test weights were good with an average of 60.0 lb/bu. Grain protein averaged 12.2% with a range of 10.1 to 13.9%. Plant height averaged 42 inches and lodging was severe for most varieties averaging 89% across the trials with a range of 25% to 99%.