

2011 WSU Variety Testing Hard Winter Wheat Trial, Almira

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 (%)	PLANT HT	HEAD DATE	S.MOLD (%)
ML9W05-2501				123	60.8	13.1	48	168	5
WA 8120			104	112	57.0	11.9	43	168	13
Boundary	105	105	105	111	59.5	12.5	44	168	13
Azimut				111	54.1	12.8	37	166	48
OR2080111H				111	57.3	12.7	41	167	28
Esperia		113	121	108	60.6	13.0	39	165	18
Bauermeister	94	96	93	98	56.4	14.1	46	168	2
UI Silver		103	104	97	59.5	12.2	44	168	37
IDO656				97	57.4	13.5	50	168	27
MDM	96	94	92	92	56.8	12.5	46	168	2
Farnum	83	85	80	89	59.3	13.1	50	170	12
Eltan (SWW Check)	92	92	84	88	54.7	13.4	45	170	2
WA 8118			101	87	58.9	13.0	45	166	48
Genesi				85	60.8	12.7	36	165	82
AgriPro Paladin	92	91	90	84	60.3	13.0	39	167	22
Peregrine		96	95	84	60.0	12.5	48	167	30
Accipiter		91	88	84	59.8	12.4	43	169	47
WA 8119			91	83	55.5	13.9	43	168	8
Norwest 553	105	111	117	81	62.1	12.1	33	166	95
Whetstone	96	96	100	81	60.5	12.4	39	165	75
WA 8096		90	86	81	54.7	12.5	40	169	2
IDO835				80	60.1	11.5	43	168	12
WA 8070		85	81	77	58.9	14.1	46	169	48
Finley	86	86	84	75	60.3	13.2	57	167	52
Hatton	87	83	75	73	64.1	11.3	53	169	40
Eddy	96	93	91	73	61.6	12.3	40	166	60
UICF-Grace		84	82	69	60.2	12.6	53	167	92
WB-Tucson		80		67	61.0	12.5	39	167	95
OR2080156H			88	66	60.8	12.1	36	168	77
Altigo				59	58.0	11.8	35	166	100
C.V.	21	17	18	18	2.7	8.6	6	1	24
LSD	10	14	20	32	3.1	2.1	5	2	19
Average	94	93	93	88	59.0	12.7	43	167	40
Highest	105	113	121	123	64.1	14.1	57	170	100
Lowest	83	80	75	59	54.1	11.3	33	165	2

Almira Hard Winter Wheat – Preliminary Data

1. Grain yield in the Almira hard winter wheat trial averaged 88 bushels/acre, six bushels/acre lower than the 5-year average. The Almira nursery was located about 6 miles north of Almira, WA (Dan McKay, cooperator).
2. This nursery was seeded on 9 September, 2010 following 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. Base fertilizer was 75#N/acre. Based on a spring soil test, an additional 25#N/acre was applied for hard wheat protein based on expected yields.
3. Yields ranged from 59 bu/ac to 123 bu/ac. Boundary was the highest yielding named entry in this trial. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 10 of the 30 entries. Norwest 553 and Boundary were the top yielding hard entries across five years of results at this location. This site had high potential for snow mold and symptoms were evident after the snow left in the spring. Entries were rated for stand about 3 weeks after the snow came off and provide a good differential for snow mold tolerance/resistance for the trial. There was little or no snow mold effect on Eltan and other entries were nearly wiped out with everything else in between. Snow mold was not uniform across the trial and contributed to an increased CV for yield. There was moderate stripe rust potential at this location and no fungicide was applied. There was an estimated 10% or more yield loss due to stripe rust for susceptible varieties. The Lattice design was 128% efficient compared to an RCBD.
4. Test weights averaged 59.0 lb/bu and ranged from 54.1 to 64.1 lb/bu. Grain protein averaged 12.7% with a range of 11.3 to 14.1%. Plant height averaged 43 inches with no lodging.