

2011 WSU Variety Testing Hard Winter Wheat Trial, Lamont

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	LODGING (%)
Norwest 553	95	100	108	153	62.2	12.6	36	155	0
WA 8120			140	152	59.2	12.0	41	164	20
WA 8119			129	151	59.3	11.9	41	164	23
Esperia		95	95	122	61.1	12.8	37	153	7
OR2080111H				118	61.0	11.7	39	156	0
MDM	101	100	101	116	60.5	9.8	35	165	42
UI Silver		100	112	116	63.2	11.5	42	164	47
ML9W05-2501				115	62.4	11.8	43	157	23
IDO656				115	62.1	12.4	46	163	32
Boundary	101	107	110	107	60.8	11.5	40	157	27
Whetstone	91	92	94	107	62.3	12.1	42	153	7
WA 8096		94	102	107	58.9	11.2	38	167	42
Bauermeister	93	90	94	105	59.8	11.1	22	167	33
OR2080156H			86	105	60.9	12.5	38	162	10
Genesi				105	60.9	12.2	35	153	7
Eddy	89	88	87	104	63.2	12.2	42	156	35
Azimut				103	58.3	12.0	32	154	0
IDO835				103	61.2	10.2	40	163	27
Finley	88	87	92	101	62.6	12.8	55	156	30
Peregrine		96	100	100	62.8	11.9	50	161	0
Eltan (SWW Check)	91	84	89	99	59.7	10.5	37	166	38
Farnum	82	85	88	99	60.4	12.5	50	168	33
WA 8118			95	99	61.6	12.9	46	156	37
WA 8070		93	97	96	62.1	11.6	42	167	0
Accipiter		88	90	95	63.2	11.5	37	162	7
WB-Tucson		84		93	63.2	11.8	38	157	17
UICF-Grace		80	87	83	61.6	11.8	47	162	32
AgriPro Paladin	77	74	72	82	61.2	12.0	35	160	0
Altigo				77	58.3	11.4	32	156	0
Hatton	69	60	51	69	62.8	12.0	44	162	30
C.V.	20	18	18	15	0.9	5.9	13	1	74
LSD	10	15	21	32	1.1	1.4	10	2	29
Average	89	89	96	107	61.2	11.8	40	160	20
Highest	101	107	140	153	63.2	12.9	55	168	47
Lowest	69	60	51	69	58.3	9.8	22	153	0

Lamont Hard Winter Wheat – Preliminary Data

1. Grain yield in the Lamont hard winter wheat trial averaged 107 bushels/acre, 18 bushels/acre higher than the 5-year average. The Lamont nursery was located about six miles southeast of Lamont, WA (G. White, cooperator).
2. This nursery was seeded on 13 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. Base fertilizer was 70#N/acre and a spring soil test showed more than adequate N for hard wheat protein based on expected yields, but most N was found in the 3rd and 4th foot of the sample.
3. Yields ranged from 69 bu/ac to 153 bu/ac. Norwest 553 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. The hard white MDM and Boundary were the top yielding entries across five years of results at this location. Stripe rust potential was high at this location and fungicide was applied two times on 4 May and mid-June. Despite fungicide applications, there was a low level of stripe rust present in the trial on susceptible varieties and influenced yield an estimated 10% or more for susceptible varieties. The Lattice design was 181% efficient compared to an RCBD.
4. Test weights were good with an average of 61.2 lb/bu and ranged from 58.3 to 63.2 lb/bu. Grain protein averaged 11.8% with a range of 9.8 to 12.9%. Plant height averaged 40 inches and lodging averaged 20% across the trial with a range of 0% to 47%.