

## 2011 WSU Variety Testing Hard Spring Wheat Trial, St. John

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
Lassik		67	58	<b>68</b>	62.4	12.4	30	182
WA 8123			53	<b>68</b>	62.5	12.0	34	180
Scarlet	62	62	54	<b>67</b>	61.7	12.1	35	182
WA 8074		56	52	<b>64</b>	62.3	11.9	33	181
Buck Pronto	59	59	51	<b>63</b>	61.8	13.0	34	178
Clear White 515				<b>63</b>	60.8	12.9	30	181
Patwin 515				<b>62</b>	61.1	13.3	28	181
WA 8133				<b>62</b>	62.7	12.0	32	183
UI Winchester		59	50	<b>60</b>	62.2	11.8	31	179
Kelse	57	57	46	<b>59</b>	62.3	12.2	34	183
Bullseye		57	46	57	<b>63.4</b>	11.1	29	185
Hollis	58	54	45	56	61.6	13.4	43	183
Jefferson	58	57	47	55	61.1	11.9	32	184
BR7030			49	54	62.6	11.7	32	181
WA 8148				54	61.3	13.0	31	181
Macon		52	41	53	61.0	10.7	33	181
Cerere				53	60.8	10.8	30	185
WB-Fuzion			44	52	60.8	12.2	33	179
10Fx Inc.1				52	62.2	11.7	30	183
Tara 2002	57	53	43	51	60.2	12.3	35	180
Westbred 926	54	51	43	50	60.5	12.2	32	179
Otis		54	38	48	61.8	10.1	35	185
IDO702				46	59.0	12.1	33	182
Hank	51	46	31	36	58.1	12.5	29	180
C.V.	17	15	16	12	1.0	5.3	6	0
LSD	4	5	6	9	0.6	0.7	2	0
Average	57	56	47	56	61.4	12.1	32	182
Highest	62	67	58	68	63.4	13.4	43	185
Lowest	51	46	31	36	58.1	10.1	28	178

### St. John Hard Spring Wheat – Preliminary Data

1. Grain yield in the St. John hard spring wheat trial averaged 56 bushels/acre, nearly equal to the 5-year average. The St. John nursery was located about three mile east of St. John, WA (Mac Mills, cooperator).
2. This nursery was seeded on 20 April, 2011 following winter wheat. Seed was placed at an 80#/acre seeding rate using a double-disc drill set on 6-inch spacing. Base fertilizer was 80#N/acre and soil test analysis showed an adequate level of N available. No additional N was applied to meet the hard protein target at projected yield levels. Spring seeding was late but establishment was good.
3. Yields ranged from 36 bu/acre to 68 bu/acre. Yield values within the LSD range of the highest yield are shown in bold and 10 of the 24 entries are in this group. Lassik was the highest yielding named variety for 2011 and Scarlet was highest yielding over 5 years at this location. Wire worm was a factor in this trial as evident by the high rate Gaucho treatment in the soft trial. Wire worm distribution is not uniform and can contribute to variation in the trial. Stripe rust was a factor in this trial but no fungicide was applied. There appears to be 25% or more effect on yield by stripe rust for susceptible entries. The Lattice design was 253% efficient compared to an RCBD for yield.
4. Test weights were good with an average of 61.4 lb/bu and ranged from 58.1 to 63.4 lb/bu. Grain protein averaged 12.1% with a range of 10.1 to 13.4%. The average plant height was 32 inches with no lodging.