

## 2012 WSU Variety Testing SW Spring Wheat Trial, Moses Lake

Variety Name <i>*Club Italicized</i>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2012					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE	LODGING (%)
<i>WA 8160</i>	--			<b>107</b>	63.2	13.1	32	151	0
<b>WA 8124</b>	--	100		<b>102</b>	<b>64.3</b>	12.0	33	152	13
<b>ARS03173LS</b>	--			<b>98</b>	63.2	12.6	33	151	5
<b>Louise-G2</b>	--		108	<b>94</b>	<b>64.0</b>	12.7	33	151	0
<b>WB-1035CL+</b>	--		92	92	62.9	14.8	30	148	0
<b>Babe</b>	--	111	102	90	63.7	12.7	30	149	0
<b>Louise</b>	--	98	103	90	63.7	13.0	34	151	0
<i>WA 8131</i>	--		96	87	61.8	13.5	28	150	0
<b>Louise-0W</b>	--			87	63.8	13.3	32	151	0
<b>Diva</b>	--	95	100	87	63.9	12.9	33	150	0
<i>JD</i>	--	97	93	85	<b>64.3</b>	13.4	32	152	0
<b>Nick</b>	--	104	93	85	62.7	14.1	30	149	0
<b>IDO686</b>	--		94	84	<b>64.4</b>	13.0	31	150	0
<i>ARS03174CS</i>	--			84	63.4	13.8	30	154	0
<b>Alpowa</b>	--	97	92	81	63.3	13.0	30	152	0
<b>Wakanz</b>	--	96	95	81	63.0	13.6	30	153	0
<b>Zak</b>	--	92	94	79	63.1	12.7	31	152	0
<b>IDO671</b>	--	97	89	78	63.2	12.8	28	150	0
<b>WA 8161</b>	--			77	63.1	12.9	33	151	8
<b>IDO687</b>	--		91	74	<b>64.1</b>	12.6	30	150	0
<b>Alturas</b>	--	100	86	72	63.2	13.1	28	150	0
<b>WA 8162</b>	--			71	63.6	12.9	27	151	0
<b>IDO599</b>	--	97		68	63.7	12.2	31	148	0
<b>Whit</b>	--	96	87	68	61.6	13.9	29	149	0
<b>C.V. %</b>	--	10	11	16	0.6	4.0	5	0	529
<b>LSD (.10)</b>	--	6	8	14	0.4	0.6	2	1	6
<b>Average</b>	--	98	95	84	63.4	13.1	31	151	1
<b>Highest</b>	--	111	108	107	64.4	14.8	34	154	13
<b>Lowest</b>	--	92	86	68	61.6	12.0	27	148	0

### Moses Lake Soft White Spring Wheat - Preliminary Data

1. Grain yield in the 2012 Moses Lake soft white spring wheat trial averaged 84 bushels/acre, 14 bushel/acre lower than the 3-year average. The Moses Lake trial was located about six miles south of Moses Lake, WA (S. Tokunaga, cooperator).
2. This nursery was seeded on 23 March, 2012 following potatoes. Seed was placed at a 90#/acre seeding rate using a double-disk plot drill set on 6-inch spacing. Base fertilizer was 250#N/acre and another 100#N/acre applied with irrigation. Spring seeding conditions were variable and establishment was not uniform. Emergence and early growth were variable and poor. Wireworm damage was found and the trial site did not appear uniform.
3. Statistical analysis of these results show highly variable results, but still significant. Yields ranged from 68 bu/acre to 107 bu/acre. Yield values within the LSD range of the highest yield are shown in bold and 4 of the 24 entries are in this group. `Louise'-G2 was the highest yielding named variety and is Louise with 2oz./100lbs. seed of Gaucho® insecticide seed treatment. Louise at the standard seed treatment rate (0.75oz./100lbs. seed), was 4 bu/acre less, and Louise-0W without insecticide was 7 bu/acre less than Louise-G2. `Babe' was the highest yielding over 3 years of results at this site. Fungicide was applied and stripe rust was not a problem.
4. Test weights were very high averaging 63.4 lbs/bu and ranged from 61.6 to 64.4 lbs/bu. Grain protein was high and averaged 13.1% with a range of 12.0 to 14.8%. The average plant height was 31 inches with almost no lodging. High test weight and protein reflect the poor establishment and high fertility at this site.