

2013 WSU Variety Testing Hard Winter Wheat Trial, Ritzville

Variety Name <i>*Hard White Italicized</i>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2013					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE	LODGING (%)
LCS Colonia				63	59.2	11.1	31	148	0
Eltan (SWW Check)	68	67	62	60	59.9	11.6	29	149	18
NSA06-4663				56	57.7	10.8	27	146	0
WA 8119		66	60	54	59.6	9.7	30	147	2
LCS-Azimut		65	57	53	55.9	11.9	27	145	0
WA 8156			61	53	60.8	11.7	30	150	0
Bauermeister	59	59	57	52	60.4	12.3	30	148	13
<i>WA 8158</i>			55	52	61.4	10.5	36	147	2
<i>JC1101</i>				51	62.9	12.3	29	146	0
WA 8181				50	60.1	11.2	32	150	0
WA 8180				50	61.3	13.0	35	148	0
UI SRG		61	57	50	60.7	11.8	38	146	20
<i>OR2080156H</i>		59	52	48	60.7	12.4	28	148	0
Keldin				46	62.0	12.1	27	147	0
Boundary	59	64	59	46	60.7	13.3	29	147	0
DAS 2				46	61.6	13.5	29	146	0
Norwest 553	56	62	54	46	61.4	11.2	26	148	0
IDO816			49	45	60.9	12.4	33	148	2
<i>WA 8159</i>			55	45	59.2	12.2	32	150	0
Finley	55	54	54	44	62.8	12.2	34	146	2
WA 8157			56	44	61.1	10.8	31	146	0
WA 8178				43	60.6	11.3	33	149	8
Farnum	57	55	52	43	59.2	12.0	33	150	35
Genesis				43	59.6	14.1	25	147	0
WA 8179				43	60.6	13.1	32	147	27
<i>UI Silver</i>	60	61	55	42	62.4	12.7	31	146	13
<i>OR2080227H</i>			53	41	59.2	12.3	27	149	0
<i>OR2080229H</i>			55	41	59.7	12.5	27	149	0
JC1102				41	61.3	11.2	30	148	0
Sprinter (WA 8118)		51	48	41	59.9	14.3	31	145	2
JC1103				40	61.2	13.3	30	148	0
DAS 1				39	60.1	14.1	29	145	0
WB-Arrowhead				38	61.4	13.7	31	147	0
<i>OR2080236H</i>			53	38	59.1	13.5	26	148	0
Whetstone				37	61.1	13.8	28	146	0
AP503CL2				33	62.7	14.1	28	145	0
C.V. %	11	11	11	7	0.8	10.1	6	1	277
LSD (.10)	3	4	4	3	0.5	1.3	2	1	12
Average	58	60	55	46	60.5	12.3	30	147	4
Highest	68	67	62	63	62.9	14.3	38	150	35
Lowest	52	51	48	33	55.9	9.7	25	145	0

Ritzville Hard Winter Wheat – Preliminary Data

1. Grain yield in the 2013 Ritzville hard winter wheat trial averaged 46 bushels/acre, 12 bushels/acre lower than the 5-year average for this location. The Ritzville nursery was located about 4 miles west of the town of Ritzville with R.Ji.
2. This nursery was seeded on 9 September, 2012 following fallow. Seed was placed at a 50#/acre seeding rate using a deep-furrow plot drill set on 15-inch spacing. Base fertilizer was 60#N/acre pre-plant applied. Based on a spring soil test showing 118 lbs./acre available N, 65 lbs./acre of additional N was applied for hard wheat protein based on expected yields. Fall seeding conditions produced good emergence and stand establishment.
3. Yields ranged from 33 to 63 bushels/acre. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 2 of the 36 entries in this trial. The variety "LCS Colonia" was the highest yielding named hard wheat entry in the trial. It is probable that some plants at this site experienced damaging frost. There was a low amount of stripe rust potential at this location and Tilt fungicide was applied with herbicides.
4. Test weights averaged 60.5 lbs./bu and ranged from 55.9 to 62.9 lbs./bu. Grain protein averaged 12.3% with a range of 9.7 to 14.3%. Plant height averaged 30 inches and significant lodging was only found in a few entries.