

2013 WSU Variety Testing Hard Winter Wheat Trial, Connell

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
LCS Colonia				42	56.8	14.0	26	136
WA 8180				39	61.4	14.4	28	136
<i>WA 8159</i>			36	39	59.3	14.4	28	136
WA 8119		47	32	38	59.2	13.6	25	136
IDO816			33	38	59.9	13.6	28	137
<i>WA 8158</i>			35	37	61.0	14.3	28	135
Farnum	45	43	36	37	57.8	15.2	29	139
UI SRG		39	28	36	59.3	14.4	29	135
WA 8157			30	35	60.9	13.9	25	134
<i>JC1101</i>				34	61.5	13.9	26	134
<i>OR2080229H</i>			31	34	58.9	15.2	25	134
WA 8178				34	59.1	15.0	29	139
LCS-Azimut		39	24	33	58.7	14.1	22	135
<i>UI Silver</i>	40	40	30	33	60.9	14.1	28	134
Boundary	40	35	29	32	59.1	15.5	25	135
WA 8181				32	58.4	15.1	27	138
NSA06-4663				32	57.8	15.4	22	134
Bauermeister	45	40	31	31	59.7	14.8	29	138
Eltan (SWW Check)	45	39	30	31	60.1	14.4	27	139
AP503CL2				31	62.5	15.1	26	134
Whetstone				31	60.9	14.1	25	134
<i>OR2080227H</i>			29	31	59.5	15.3	24	134
WA 8156			35	30	59.9	16.1	26	139
WA 8179				30	60.9	14.5	30	135
<i>OR2080156H</i>		34	26	29	58.7	16.4	24	135
JC1102				28	60.1	15.4	23	136
WB-Arrowhead				28	60.6	16.2	28	134
<i>OR2080236H</i>			31	28	59.1	16.0	25	137
JC1103				26	60.3	15.8	26	134
Keldin				26	60.7	15.8	25	135
Finley	40	36	24	25	61.2	15.6	28	136
Norwest 553	39	40	22	25	61.4	15.6	25	134
DAS 1				24	57.9	16.5	26	135
DAS 2				20	58.7	17.4	24	136
Sprinter (WA 8118)		33	17	20	59.7	17.2	28	134
Genesis				16	56.6	17.8	21	137
C.V. %	11	10	13	12	0.9	4.5	7	1
LSD (.10)	2	2	3	4	0.6	0.7	2	1
Average	42	40	30	31	59.7	15.2	26	136
Highest	45	47	36	42	62.5	17.8	30	139
Lowest	39	33	17	16	56.6	13.6	21	134

Connell Hard Winter Wheat – Preliminary Data

1. Grain yield in the 2013 Connell hard winter wheat trial averaged 31 bushels/acre, 11 bushels/acre lower than the 5-year average. The Connell nursery was located about 6 miles east of Connell, WA (D. Bauermeister, cooperator).
2. This nursery was seeded on 5 September, 2012 following fallow. Seed was placed at a 45#/acre seeding rate using a deep-furrow plot drill set on 15-inch spacing. Fall seeding conditions were favorable and emergence and stand establishment were good. Base fertilizer was 63#N/acre. Based on a spring soil test showing 218 lbs./acre available N, no additional N was applied for hard wheat protein based on expected yields.
3. Yields ranged from 16 bu/ac to 42 bu/ac. 'LCS Colonia' 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 4 of the 24 entries. 'Farnum' and 'Bauermeister' were the top yielding hard entries across five years of results at this location. 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 no fungicide was applied. This is the one site selected out of four in the <12" rainfall zone that did not receive fungicides for stripe rust control in 2013.
4. Test weights averaged 58.5 lbs./bu and ranged from 54.3 to 61.0 lbs./bu. Grain protein averaged 14.8% with a range of 13.4 to 18.3%. Plant height averaged 28 inches with no lodging. Late season water stress and the frost at heading increased protein levels and lowered test weights.