

2012 WSU Variety Testing SW Winter Wheat Trial, Connell

Variety Name <i>*Club Italized</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
Xerpha	53	56	51	45	58.7	13.4	32	144
WA 8136			53	38	58.0	12.3	28	146
<i>ARS010780-3C</i>				38	58.5	13.2	29	142
Rod	51	53	54	37	57.9	13.6	26	145
WA 8152				37	59.7	13.6	35	144
<i>Coda</i>	50	56	54	36	59.2	14.5	27	143
Masami	51	55	50	36	58.5	13.3	28	144
WA 8134			55	36	58.4	13.4	31	145
LWW-04-4009				36	58.9	13.6	28	143
<i>Chukar</i>	51	55	52	35	57.8	14.1	27	143
Madsen/Rod	50	53	55	35	58.0	14.5	30	142
ORCF-103	51	50	44	35	59.3	13.3	28	144
WA 8137				35	59.6	12.9	28	143
Madsen	48	51	53	34	58.2	14.4	29	142
Tubbs 06	49	50	45	34	57.4	14.3	30	145
ARS-Amber (ARS960277L)	48	51	47	34	58.7	12.6	29	141
Eltan/Tubbs 06	49	53	48	34	58.4	13.1	31	142
WA 8143			49	34	60.0	13.4	30	144
ARS970277L reselect				34	58.6	12.7	28	144
<i>Bruehl</i>	48	55	53	33	58.9	15.0	28	146
WA 8116		53	49	33	58.4	13.5	27	142
<i>ARS-Crescent (ARS970163-4C)</i>		54	50	33	57.5	13.9	29	145
ARS970161-3L			54	33	59.0	14.2	28	142
OR08047P94				33	56.5	12.8	28	144
ARS970161-2L				33	59.1	13.9	30	145
<i>ARS010762-2C</i>				33	57.1	14.3	28	145
WA 8155				33	59.8	13.2	31	146
Otto (WA 8092)		56	51	32	59.3	13.8	32	144
<i>Cara</i>	47	54	50	31	57.5	14.4	27	145
ORCF-102	51	52	51	31	57.9	14.8	29	144
<i>ARS990077-1C</i>				31	59.5	13.6	28	142
OR2701071				30	56.5	12.8	29	145
WA 8154				30	59.1	14.6	30	144
Eltan	48	50	43	29	58.4	13.2	30	144
WA 8135			45	29	59.5	13.8	28	143
OR2070870				28	57.5	15.2	26	144
WA 8151				28	58.3	13.8	28	145
Skiles	50	51	54	26	57.4	15.7	28	145
Goetze/Skiles		50	50	26	57.3	15.3	26	142
IDO663			47	26	58.4	14.7	26	143
WA 8153				26	58.0	15.2	30	145
WB-528	47	46	46	25	59.2	14.7	25	147
<i>ARS-Chrysal (ARS970075-3C)</i>	47	50	49	24	57.1	15.0	26	145
WA 8142			48	24	58.8	15.7	27	143
Mary (OR2040726)		47	48	23	56.5	14.9	27	144
OR2071628			46	21	57.6	14.0	25	144
Stephens	44	43	43	17	58.4	15.3	27	145
LCS-Artdeco (NSA06-2153A)			26	13	55.6	14.5	25	142

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				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE
C.V. %	11	10	10	14	0.7	4.6	7	1
LSD (.10)	2	3	4	5	0.4	0.7	2	2
Average	49	52	49	31	58.3	14.0	28	144
Highest	53	56	55	45	60.0	15.7	35	147
Lowest	44	43	26	13	55.6	12.3	25	141

Connell Soft White Winter Wheat - Preliminary Data

1. Grain yield in the 2012 Connell soft white winter wheat trial averaged 31 bushels/acre, 18 bushels/acre lower than the 5-year average. The Connell nursery was located about six miles east of Connell, WA (D. Bauermeister, cooperator).
2. This nursery was seeded on 12 September, 2011 following fallow. Seed was placed at a 45#/acre seeding rate using a deep-furrow plot drill set on 15-inch spacing. Base fertilizer was 70#N/acre pre-plant applied. Fall seeding conditions were favorable and emergence and stand establishment were good.
3. Yields ranged from 13 to 45 bushels/acre. All yield values within the 10% LSD range of the highest yield are shown in bold. Xerpha was the highest yielding named entry in the trial, and was alone in the top LSD range. Xerpha was also the top yielding entry across five years of results at this location. Some plants at this site experienced damaging frost at the beginning of heading. The early varieties were damaged the most and later varieties showed little or no injury. This variable frost injury increased CV values for this trial, but are important responses to evaluate. 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 five in the <12" rainfall zone that did not receive fungicides for stripe rust control in 2012.
4. Test weights averaged 58.3 lbs./bu, and ranged from 55.6 to 60.0 lbs./bu. Grain protein averaged 14.0% with a range of 12.3 to 15.7%. Plant height averaged 28 inches and there was no lodging. Late season water stress and the frost at heading increased protein levels and lowered test weights. A soil test showed ample N at this site.