2011 WSU Variety Testing SW Winter Wheat Trial, St. John

Variety Name *Club Italized	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2011 YIELD (BU/A)	2011 TEST WT (LBS/BU)	2011 PROTEIN (%)	2011 PLANT HT	2011 HEAD DATE
Cara +25%			177	**183**	61.1	9.4	47	185
ARS970161-3L				**182**	**62.3**	9.7	45	185
Cara	162	175	178	**178**	60.9	9.3	48	185
WA 8136				**173**	56.6	9.6	44	187
ARS960277L (ARS-Amber)			154	**171**	60.5	8.3	49	185
WA 8116			146	**171**	58.0	9.5	43	186
Chukar	156	168	163	**170**	60.8	9.6	48	186
03PN107#3				**170**	61.5	9.0	45	185
ARS970075-3C			154	**168**	**61.9**	8.8	50	185
Chukar +25%			158	**167**	60.3	8.7	49	186
ARS97230-6C				**167**	61.1	8.5	44	185
WA 8134				**167**	60.7	9.1	47	185
Skiles		160	164	**165**	**62.2**	9.7	43	184
OR2070385				**164**	61.3	9.5	44	185
Legion		152	153	**162**	58.7	8.9	47	184
OR2071628				160	59.6	9.1	42	184
ARS970163-4C			149	159	61.7	8.7	47	186
Madsen	140	151	153	158	61.3	9.9	45	186
AP 700 CL	145	149	147	158	60.6	9.5	45	183
ARS98X402-1C				158	60.7	8.9	48	186
WA 8135				158	61.3	10.1	50	186
WA 8092		148	149	156	54.7	10.0	47	187
Bruneau	152	157	159	155	61.3	8.6	47	185
NSA06-2153A				154	60.2	9.2	42	183
Finch	136	138	134	153	60.7	8.9	46	187
96-16702A				153	**62.0**	9.3	50	183
WA 8142				152	61.5	9.6	45	183
Brundage 96	143	145	140	151	60.6	9.5	47	183
BZ6W02-616		149	147	149	**61.8**	9.0	44	181
Madsen/Rod	137	140	137	148	60.5	9.9	46	186
WA 8144				148	56.9	8.8	53	187
OR2040726 (Mary)		152	145	147	61.5	9.1	42	183
Rod/WB-528				146	61.3	9.0	46	182
Rod	138	139	135	145	59.9	8.4	43	186
Goetze/Skiles			138	145	61.3	10.2	43	183
Eltan	133	131	126	144	56.3	9.7	45	186
Bitterroot	137	133	132	144	61.3	9.3	46	185
WB-528	139	140	134	144	**61.8**	9.0	46	182
IDO663				144	61.2	9.4	42	182
Coda	136	144	147	143	**62.9**	9.5	47	184
SY Ovation				143	61.3	9.3	45	184
WA 8145				143	60.2	10.0	47	182
ORCF-102	142	146	142	141	60.2	9.1	47	185
WA 8143				137	57.3	9.9	46	187
WA 8094		123	117	134	57.7	8.8	48	186
Stephens	139	139	136	133	60.3	9.8	43	183

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Eltan/Tubbs 06		129	116	133	58.9	8.6	46	185
Masami	130	124	114	129	58.3	9.2	44	187
UICF-Brundage	134	131	121	129	60.2	9.5	41	185
Sunrise (Soft Red)			104	128	59.4	9.3	50	187
WA 8114			122	128	60.3	9.5	45	181
ORCF-103	131	131	120	126	59.1	9.8	44	187
Bruehl	136	143	143	125	56.9	9.2	46	187
Rod/Tubbs 06		125	110	125	60.3	9.1	46	185
AP Badger				123	59.5	9.8	39	184
ID00-475-2DH			116	122	**61.8**	9.4	43	186
Lambert	129	118	99	121	60.8	9.7	47	184
Xerpha	135	122	103	120	61.6	9.7	44	186
Tubbs 06	135	129	108	120	59.7	9.0	45	184
AP Legacy		116	93	91	58.3	9.1	43	185
C.V.	13	10	9	8	1.0	6.4	5	0
LSD	9	12	15	22	1.1	1.2	4	1
Average	139	140	136	148	60.2	9.3	46	185
Highest	162	175	178	183	62.9	10.2	53	187
Lowest	129	116	93	91	54.7	8.3	39	181

St. John Soft White Winter Wheat – Preliminary Data

1. Grain yield in the St. John soft white winter wheat trial averaged 148 bushels/acre, 9 bushels/acre more than the 5-year average. The St. John nursery was located about three miles east of St. John, WA (Mac Mills, cooperator).
2. This nursery was seeded on 27 September, 2010 following summer fallow. Seed was placed at an 85#/ acre seeding rate using a double disc plot drill set on 6-inch spacing. Base fertilizer was 90#N. Fall seeding conditions were favorable and emergence and stand establishment were good.
3. Yields ranged from 91 to 183 bu/ac. All yield values within the 10% LSD range of the highest yield are shown in bold. Cara +25% (a 25% higher seeding rate of Cara) was the highest yielding entry in the trial, and 15 of the 60 entries in the trial were within the top LSD range. Cara was also the top yielding entry across five years of results at this location. Stripe rust infestation and damage was very high at this location. No fungicide was applied and stripe rust influenced yield an estimated 35% or more for susceptible varieties. Varietal susceptibility to stripe rust was the dominant factor for yield. This trial also shows that resistant varieties can produce high yields even when stripe rust is epidemic. The Lattice design was 126% efficient compared to an RCBD.
4. Test weights were good with an average of 60.2 lb/bu, but ranged from 54.7 to 62.9 lb/bu. Grain protein averaged 9.3% with a range of 8.3 to 10.2%. Plant height averaged 46 inches with no lodging.