

## 2011 WSU Variety Testing SW Winter Wheat Trial, Dayton

Variety Name <small>*Club Italized</small>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2011					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	LODGING (%)	HEAD DATE
SY Ovation				185	63.0	10.9	43	0	158
NSA06-2153A				181	60.9	11.2	37	0	156
Skiles		155	165	172	62.1	11.6	44	27	162
Goetze/Skiles			150	169	61.9	11.4	43	7	158
Cara	141	163	171	167	60.4	11.3	44	23	164
OR2070385				167	59.4	12.3	42	27	164
ARS97230-6C				166	60.9	11.2	43	17	163
ARS970161-3L				166	62.4	11.8	41	20	163
WB-528	135	148	146	164	62.5	11.3	42	20	157
AP Badger				164	60.4	11.2	37	0	159
Madsen	133	150	154	160	61.4	11.9	42	0	166
Bruneau	136	154	162	159	61.4	10.6	44	50	164
Cara +25%			167	159	60.3	11.2	43	10	162
WA 8142				159	62.2	11.6	43	0	160
Chukar	135	153	159	158	60.1	11.1	46	30	165
Brundage 96	134	145	150	158	61.2	11.4	44	3	160
OR2040726 (Mary)		143	145	158	61.5	11.7	41	0	159
03PN107#3				158	60.9	10.8	41	47	160
Eltan/Tubbs 06		140	141	157	60.5	11.1	44	7	163
BZ6W02-616		153	153	157	61.3	11.5	41	70	156
Bruehl	132	145	160	156	57.6	11.2	44	13	168
AP 700 CL	128	143	142	156	60.5	11.5	43	0	159
UICF-Brundage	128	138	143	156	61.1	11.4	40	13	164
Chukar +25%			164	155	59.9	11.3	45	57	164
Bitterroot	124	140	142	154	62.3	11.4	45	33	164
Madsen/Rod	131	141	138	154	60.3	11.6	42	7	164
WA 8092		140	155	153	60.5	11.8	43	43	170
OR2071628				153	59.2	11.7	41	0	159
Stephens	130	142	144	152	60.0	12.3	41	7	158
Tubbs 06	126	135	126	152	60.1	10.9	44	0	161
IDO663				152	61.2	11.4	43	0	158
ORCF-102	137	149	147	151	61.6	11.4	45	17	164
Legion		152	157	151	58.1	12.0	43	40	164
ARS970163-4C			154	151	61.1	10.7	45	13	165
Rod/WB-528				151	61.6	11.0	43	17	157
Xerpha	135	140	139	150	61.4	11.1	43	20	164
WA 8116			146	150	61.3	11.5	40	50	167
WA 8134				148	60.6	11.4	45	37	162
WA 8145				148	59.8	11.8	43	47	158
ARS960277L (ARS-Amber)			154	147	60.3	10.9	43	43	165
Rod/Tubbs 06		139	135	147	60.2	11.3	43	17	163
ARS98X402-1C				146	60.8	11.3	48	37	164
WA 8135				146	62.6	11.8	45	32	168
96-16702A				144	61.4	11.1	45	43	158
Lambert	118	121	118	143	60.8	11.5	44	30	160
ARS970075-3C			152	142	61.2	11.8	47	20	162

## 2011 WSU Variety Testing SW Winter Wheat Trial, Dayton

Variety Name <small>*Club Italized</small>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2011					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	LODGING (%)	HEAD DATE
<b>WA 8144</b>				142	61.7	12.2	48	33	169
<b>Rod</b>	135	144	143	139	59.2	11.2	40	68	165
<b>ORCF-103</b>	127	138	137	139	60.3	11.4	43	47	167
<b>WA 8136</b>				139	57.4	11.9	39	10	169
<b>WA 8114</b>			133	138	60.2	11.5	41	37	158
<b>WA 8143</b>				137	60.2	11.8	42	83	169
<b>Finch</b>	126	138	130	136	61.1	11.6	45	37	167
<b>ID00-475-2DH</b>			119	136	61.7	11.3	42	60	165
<b>Eltan</b>	127	137	136	133	60.4	11.8	43	96	168
<b>Sunrise (Soft Red)</b>			118	133	59.7	11.7	45	10	162
<b>Coda</b>	132	145	145	130	61.2	13.3	47	88	165
<b>Masami</b>	119	123	123	129	59.5	10.9	42	17	168
<b>WA 8094</b>		123	127	128	61.2	11.6	46	44	168
<b>AP Legacy</b>		130	114	118	59.6	10.7	46	7	164
<b>C.V.</b>	10	8	7	6	0.8	3.8	3	81	1
<b>LSD</b>	7	9	11	17	1.0	0.8	3	42	3
<b>Average</b>	130	142	144	151	60.7	11.5	43	27	163
<b>Highest</b>	141	163	171	185	63.0	13.3	48	96	170
<b>Lowest</b>	118	121	114	118	57.4	10.6	37	0	156

### Dayton Soft White Winter Wheat – Preliminary Data

1. Grain yield in the Dayton soft white winter wheat trial averaged 151 bushels/acre, 21 bushels/acre more than the 5-year average. The Dayton nursery was located about four miles northwest of Dayton, WA (J. Penner, cooperator).
2. This nursery was seeded on 28 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 110#N. Fall seeding conditions were favorable and emergence and stand establishment were good.
3. Yields ranged from 118 to 185 bu/ac. All yield values within the 10% LSD range of the highest yield are shown in bold. SY Ovation was the highest yielding entry in the trial, and 4 of the 60 entries in the trial were within the top LSD range. Cara was the top yielding entry across five years of results at this location. Stripe rust potential was very high at this location. Fungicide was applied three times on 19 March, 5 May, and 21 June. Despite three fungicide applications, stripe rust was present in the trial on susceptible varieties and influenced yield an estimated 15% or more for susceptible varieties. This trial shows that stripe rust susceptible varieties can sustain damage even with a high fungicide application regime when stripe rust is highly epidemic. There was also lodging in the trial with some yield impact. The Lattice design was 120% efficient compared to an RCBD.
4. Test weights were good with an average of 60.7 lb/bu, and ranged from 57.4 to 63.0 lb/bu. Grain protein averaged 11.5% with a range of 10.6 to 13.3%. Plant height averaged 43 inches and lodging averaged 27% with a range of 0 to 96%.