

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

Variety Name *Club Italized	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	HEAD DATE
Eltan	56	56	70	82	61.3	8.8	42	170
Eltan/Tubbs 06		51	63	81	61.1	9.0	43	167
WA 8092		58	74	80	61.2	10.4	40	169
WA 8116			66	74	62.2	9.2	37	169
Skiles		55	67	73	62.0	10.5	37	166
Madsen/Rod	45	49	58	72	61.3	10.1	41	169
96-16702A				70	62.4	9.7	42	164
SY Ovation				70	61.9	11.0	39	165
WA 8143				70	61.0	8.3	41	169
Masami	49	52	63	69	60.8	8.9	38	168
Bruehl	51	53	65	68	58.9	9.0	41	169
Rod	48	48	58	68	61.3	10.0	37	167
Xerpha	53	57	67	68	61.4	9.5	36	169
Rod/Tubbs 06		49	58	68	60.9	9.0	40	166
ARS97230-6C				68	61.8	8.9	38	167
ARS970163-4C			54	67	62.1	9.7	40	172
ID00-475-2DH			66	67	62.9	10.0	39	167
Tubbs 06	46	50	62	65	60.2	8.4	43	166
WA 8136				65	61.3	10.0	35	170
Brundage 96	48	50	61	64	61.5	10.5	38	163
OR2070385				64	61.1	9.1	39	164
Finch	52	55	68	63	62.4	8.7	38	172
ORCF-102	44	46	56	63	61.5	10.0	40	167
ARS960277L (ARS-Amber)			61	63	61.3	9.2	40	167
WA 8094		55	69	63	62.3	9.2	41	168
WA 8114			52	63	63.4	10.3	38	163
IDO663				63	61.6	10.3	37	163
AP Badger				63	59.6	9.7	36	165
Coda	46	51	60	62	62.4	9.1	41	168
AP Legacy		48	58	62	60.8	9.1	40	167
Sunrise (Soft Red)			67	62	61.2	10.2	43	163
Chukar	48	56	63	61	60.3	8.9	38	169
Bruneau	40	43	50	61	62.2	10.5	37	166
BZ6W02-616		43	55	61	63.1	9.9	39	162
ARS98X402-1C				60	62.2	9.9	40	167
03PN107#3				60	61.8	10.2	37	165
Stephens	40	43	53	59	60.4	9.5	39	163
ORCF-103	47	48	58	59	60.4	9.4	37	171
Legion		47	57	59	60.1	9.4	41	165
WA 8134				59	62.1	10.3	39	166
ARS970161-3L				59	62.9	9.2	37	166
Bitterroot	42	46	56	57	62.4	11.0	41	167
AP 700 CL	41	43	52	57	60.8	9.5	39	164
WA 8135				57	62.3	9.7	41	170
WA 8144				57	61.5	10.3	44	171
Lambert	44	43	51	56	61.1	10.0	43	162

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				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE	
OR2040726 (Mary)		46	55	56	61.5	9.8	37	164	
Chukar +25%			58	56	60.9	9.1	38	168	
UICF-Brundage	44	46	53	55	61.1	9.9	35	165	
ARS970075-3C			56	54	61.8	9.1	37	166	
OR2071628				53	60.4	9.6	36	165	
Madsen	40	41	48	52	61.0	10.2	38	172	
Goetze/Skiles			53	52	61.1	9.6	36	166	
Rod/WB-528				52	61.3	9.3	37	168	
Cara	42	46	50	50	60.3	9.5	36	167	
WB-528	40	45	50	50	62.7	11.0	38	164	
Cara +25%			56	49	60.0	9.1	38	168	
WA 8142				48	62.1	10.6	37	164	
WA 8145				24	60.8	11.4	37	164	
NSA06-2153A	-	-	-	Variety Lost, No Data					-
C.V.	27	23	21	17	0.8	7.4	5	1	
LSD	6	10	14	20	1.0	1.4	4	2	
Average	46	49	59	61	61.4	9.5	38	164	
Highest	56	58	74	82	63.4	11.4	44	172	
Lowest	40	41	48	24	58.9	8.3	35	162	

St. Andrews Soft White Winter Wheat – Preliminary Data

1. Grain yield in the St. Andrews soft white winter wheat trial averaged 61 bushels/acre, 15 bushels/acre higher than the 5-year average. Higher yields were enabled by favorable spring precipitation and temperatures. The St. Andrews nursery was located about seven miles west of Coulee City, WA (L. Tannenberg, cooperator).
2. This nursery was seeded on 1 September, 2010 following summer fallow. Seed was placed at a 45#/acre seeding rate using a deep furrow plot drill set on 15-inch spacing. Base fertilizer was #90N fall applied. Fall seeding conditions were favorable and emergence and stand establishment were very good. There were minor levels of snow mold over winter and one entry did not survive.
3. Yields ranged from 24 to 82 bu/ac. All yield values within the 10% LSD range of the highest yield are shown in bold. Eltan was the highest yielding variety in the trial, but 31 of the 60 entries in the trial were within the top LSD range. Eltan was also the top yielding entry across five years of results at this location. This large grouping within the top LSD value is due to high variability at this site, although the CV is lower than average historical values. There was a low level of stripe rust potential at this location and no fungicide was applied. The Lattice design was 135% efficient compared to an RCBD.
4. Test weights were good with an average of 61.4 lb/bu and ranged from 58.9 to 63.4 lb/bu. Grain protein averaged 9.5% with a range of 8.3 to 11.4%. Plant height averaged 38 inches and there was no lodging.