2011 WSU Variety Testing Soft White Winter Wheat Trial Summary

Precipitation Zone >20"

Variety Name *(Club Italicized)*	Yield (Bu/A)						Test Weight (Lbs/A)						Protein (%)					
	Colton	Fairfield	Farmington	Moses Lake *(Irrigated)*	Pullman	Average	Colton	Fairfield	Farmington	Moses Lake *(Irrigated)*	Pullman	Average	Colton	Fairfield	Farmington	Moses Lake *(Irrigated)*	Pullman	Average
Legion	149	87	160	194	192	**156**	61.4	59.8	60.5	62.3	61.7	61.1	9.2	9.1	9.6	11.6	10.8	10.1
OR2070385	137	106	151	197	178	**154**	61.5	60.8	61.4	62.5	62.0	61.6	9.5	8.8	9.9	11.6	11.0	10.2
Bruneau	153	94	143	182	196	**154**	62.4	61.5	61.7	63.5	63.0	62.4	9.1	9.1	9.5	12.0	10.4	10.0
WA 8143	140	110	138	177	187	**150**	62.4	62.2	61.1	62.5	60.5	61.7	9.2	8.4	9.8	11.3	10.5	9.8
SY Ovation	144	88	136	191	180	**148**	62.5	61.2	60.6	62.6	62.5	61.9	9.8	8.7	9.4	11.8	11.3	10.2
Cara +25%	141	97	141	166	188	147	61.7	61.0	61.3	61.8	62.0	61.6	9.2	9.0	9.9	11.7	11.0	10.2
Bruehl	147	100	132	168	183	146	60.1	59.7	59.2	60.6	59.3	59.8	9.6	8.9	9.6	12.4	10.8	10.3
Cara	138	97	151	160	183	146	61.6	60.5	61.3	61.8	62.1	61.4	9.5	8.4	9.9	12.4	11.4	10.3
BZ6W02-616	140	95	132	192	169	146	63.2	61.8	61.6	63.3	63.7	62.7	9.2	8.7	9.5	11.1	11.3	10.0
WA 8134	146	85	131	186	178	145	62.0	60.7	60.4	62.5	62.1	61.5	9.1	8.6	9.6	11.7	10.6	9.9
WA 8092	143	96	135	176	177	145	62.2	62.2	61.5	62.5	60.3	61.7	9.7	8.4	9.8	11.8	10.3	10.0
ARS960277L (ARS-Amber)	137	99	132	170	180	144	62.3	61.5	60.2	62.3	62.4	61.8	9.2	8.7	9.1	11.2	10.4	9.7
Madsen	133	101	131	175	179	144	61.9	61.5	61.2	62.3	62.0	61.8	9.8	9.3	10.0	12.2	11.1	10.5
ARS970161-3L	137	85	154	170	177	144	63.2	62.3	63.1	63.6	63.4	63.1	9.6	9.4	10.1	12.4	10.8	10.5
OR2071628	136	85	124	194	174	143	60.5	60.2	59.8	61.4	60.7	60.5	8.9	8.8	9.2	11.3	10.7	9.8
Rod	147	90	121	189	170	143	61.9	60.7	59.3	62.0	60.9	60.9	9.3	9.1	9.8	11.1	10.9	10.0
Chukar	145	102	135	152	183	143	61.8	60.5	61.0	62.6	61.8	61.5	9.3	7.8	9.9	12.8	10.9	10.1
WA 8116	144	94	126	177	173	143	62.6	62.3	61.5	62.3	62.0	62.1	9.4	8.3	9.6	11.9	10.3	9.9
Skiles	138	94	140	169	175	143	63.7	62.9	62.5	62.6	63.2	63.0	10.2	9.8	10.4	12.5	11.4	**10.9**
Madsen/Rod	139	86	129	186	173	142	62.0	60.9	60.3	62.4	61.5	61.4	10.0	8.7	10.1	11.4	11.0	10.2
ARS970075-3C	138	96	113	179	181	142	63.0	61.5	59.3	63.6	63.3	62.1	8.7	8.0	9.8	12.1	10.8	9.9
WA 8144	130	94	144	168	174	142	62.9	62.6	62.1	62.7	62.6	62.6	10.0	9.0	10.0	12.8	10.9	10.5
Stephens	130	70	137	193	176	141	62.0	58.5	60.6	62.5	62.3	61.2	9.7	10.2	9.8	11.3	10.8	10.4
Eltan	146	94	120	161	184	141	62.4	61.6	60.3	62.3	61.8	61.7	9.5	7.8	9.2	11.8	10.1	9.7
ARS97230-6C	142	95	131	169	168	141	62.1	61.9	60.8	61.9	63.0	61.9	9.0	8.0	9.0	11.2	10.1	9.5
Bitterroot	137	85	130	179	174	141	62.4	62.4	61.4	62.8	62.5	62.3	9.6	10.0	9.8	12.0	10.7	10.4
ARS970163-4C	139	100	128	162	174	141	62.4	62.6	61.8	62.6	62.5	62.4	8.5	8.2	9.4	11.7	10.2	9.6
03PN107#3	143	93	123	179	167	141	63.0	62.4	60.8	63.6	62.6	62.5	9.3	9.7	9.5	11.4	9.9	10.0
96-16702A	132	88	123	185	176	141	63.5	62.3	62.1	63.5	63.7	63.0	8.8	8.5	9.6	11.5	10.4	9.7
WB-528	135	92	123	179	172	140	63.3	61.7	61.9	63.7	63.5	62.8	10.0	9.0	9.8	12.3	11.1	10.4
AP Badger	138	86	121	185	164	139	60.8	58.8	59.0	61.6	60.4	60.1	9.8	9.3	9.8	11.4	11.1	10.3
NSA06-2153A	137	80	129	180	170	139	61.7	59.5	59.8	61.7	61.9	60.9	9.1	9.1	9.8	11.1	10.7	10.0
WA 8145	124	89	149	175	158	139	61.8	60.8	60.7	61.8	62.1	61.5	10.3	9.9	10.0	11.9	11.4	**10.7**
Chukar +25%	137	96	135	152	176	139	61.7	61.5	60.8	62.3	61.7	61.6	9.1	8.8	9.1	12.8	10.4	10.0
AP 700 CL	128	72	133	185	179	139	62.6	61.2	61.3	62.2	62.3	61.9	9.6	9.9	9.7	12.1	10.9	10.4
Brundage 96	141	95	124	175	156	138	62.0	60.9	60.9	61.7	61.4	61.4	9.7	9.0	9.5	11.5	10.5	10.0
ARS98X402-1C	134	94	118	173	170	138	62.2	61.4	60.3	62.7	62.3	61.8	8.9	8.0	8.9	12.1	10.5	9.7
Rod/WB-528	135	94	118	181	164	138	63.1	61.1	60.5	62.8	62.3	62.0	9.9	8.9	10.0	11.3	11.1	10.2
Xerpha	142	96	91	193	164	137	62.5	61.2	59.7	62.2	61.7	61.5	9.7	8.8	10.5	12.4	10.4	10.3
OR2040726 (Mary)	131	87	118	186	162	137	63.0	61.1	60.5	62.5	62.7	62.0	9.6	8.4	9.4	11.2	10.7	9.9
ID00-475-2DH	135	92	112	172	172	137	64.1	63.0	60.5	63.7	63.4	62.9	9.3	9.3	9.4	11.2	10.4	9.9
WA 8136	130	76	135	172	168	136	60.2	60.5	60.3	59.9	59.6	60.1	9.3	8.7	9.4	11.6	10.2	9.9
Rod/Tubbs 06	138	82	97	200	163	136	61.9	59.6	57.4	62.4	61.1	60.5	9.1	8.7	10.3	11.3	10.2	9.9
ORCF-103	136	94	116	181	154	136	61.7	60.6	60.1	61.8	61.4	61.1	9.0	8.7	9.4	11.4	10.7	9.8
ORCF-102	140	93	105	181	164	136	62.5	61.0	58.0	62.5	61.8	61.2	10.1	8.5	10.3	11.5	10.6	10.2
WA 8135	124	94	120	170	165	135	63.2	62.8	62.4	63.3	62.8	62.9	9.9	9.1	10.5	11.6	11.2	10.5
UICF-Brundage	134	87	119	167	162	134	62.0	61.3	60.2	60.8	61.4	61.1	9.1	9.2	9.4	12.1	10.5	10.1
IDO663	121	72	112	191	171	134	62.6	60.3	61.2	63.5	63.1	62.1	9.2	9.7	9.5	11.5	10.8	10.1
WA 8142	126	88	135	164	160	134	63.0	62.4	62.0	63.0	63.1	62.7	10.3	10.0	10.3	12.4	11.3	**10.9**
Finch	130	83	124	169	165	134	63.1	62.0	62.3	63.0	63.3	62.8	9.2	9.0	9.2	12.1	10.2	9.9
Eltan/Tubbs 06	144	81	95	175	170	133	62.0	60.1	58.9	62.4	61.0	60.9	9.1	8.9	9.7	12.0	10.7	10.1
Goetze/Skiles	132	88	113	182	148	133	63.1	61.8	60.8	61.9	62.4	62.0	10.6	9.7	10.8	12.3	11.6	**11.0**
WA 8114	130	85	124	178	151	133	63.0	62.2	60.4	62.6	62.2	62.1	9.2	9.1	9.7	11.6	10.3	10.0
Coda	124	81	133	160	169	133	64.0	63.6	63.5	63.9	64.3	**63.9**	9.8	9.4	10.6	12.7	11.4	**10.8**
Masami	133	88	106	183	149	132	61.0	60.3	59.4	62.0	60.2	60.6	8.7	8.2	9.5	10.8	10.3	9.5
Tubbs 06	139	77	83	190	160	130	62.0	58.5	57.3	62.5	60.9	60.2	9.2	9.1	9.8	11.6	10.4	10.0
WA 8094	135	90	104	167	150	129	63.2	61.9	61.5	63.0	62.6	62.4	9.5	9.0	9.9	12.4	10.5	10.3
Sunrise	124	84	91	163	160	125	60.3	59.8	58.5	61.3	61.1	60.2	8.8	8.2	9.6	11.8	10.9	9.9
Lambert	125	74	90	175	149	123	62.1	60.0	60.0	63.3	61.4	61.4	9.0	9.0	10.3	11.6	11.0	10.2
AP Legacy	117	69	53	184	134	111	60.7	57.3	53.8	62.2	59.6	58.7	9.6	8.2	9.9	11.5	10.1	9.9
C.V.	5	9	7	5	7	6	0.3	0.9	0.8	0.6	0.9	0.8	3.5	7.0	3.5	4.6	3.7	4.5
LSD	14	15	16	17	22	8	0.4	1.1	1.0	0.8	1.1	0.4	0.6	1.2	0.7	1.0	0.8	0.4
Average	136	89	124	177	170	139	62.3	61.1	60.5	62.5	62.0	61.7	9.4	8.9	9.7	11.8	10.7	10.1
Highest	153	110	160	200	196	156	64.1	63.6	63.5	63.9	64.3	63.9	10.6	10.2	10.8	12.8	11.6	11.0
Lowest	117	69	53	152	134	111	60.1	57.3	53.8	59.9	59.3	58.7	8.5	7.8	8.9	10.8	9.9	9.5

2011 WSU Soft White Winter Wheat Trial Summary

Precipitation Zone >20" – Preliminary Data

1. Soft white winter wheat grain yield across five locations and 60 entries in the >20" precipitation zone averaged 139 bushels/acre the same as the average in the 16-20" zone and is 6 bushels/acre higher than the 2010 average of 133 bushels/acre and 10 bushels/acre higher than the 2009 average of 129 bushels/acre. The CV for the average data was 6, similar to the 2010 CV. In general the trials had good fall establishment.

2. Yields among entries averaged across locations ranged from 111 to 156 bushels/acre and reflected the favorable precipitation and temperature for most of the growing season. Legion was the highest yielding named variety averaged across locations. Average yield values within the 10% LSD range (8 bushels/acre) of the highest yield are shown in bold and this included 5 of the 60 entries. Stripe rust significantly reduced yields in most of these locations and influenced yield rankings based on susceptibility. Fungicide applications and yield impacts in percent for these locations were: no fungicide and 40% impact at Farmington, none and 20% at Fairfield, three and 20% at Pullman, two and 10% at Colton, and two and none at Moses Lake Irrigated.

3. Test weight averaged 61.7 lb/bu across locations and entries and was higher than last year's 58.7 lb/bu average. Grain protein averaged 10.1% and was lower than last year's 10.4% protein value.