

2009 WSU SOFT WHITE WINTER WHEAT TRIAL SUMMARY
Precipitation Zone= >20"

VARIETY NAME <i>(SWH Club in italics)</i>	COLTON	FAIRFIELD	FARMINGTON	MOSES LAKE <i>(irrigated)</i>	PULLMAN	AVERAGE YIELD
	YIELD (BU/A)					
XERPHA	128	111	143	194	147	145
LEGION	121	111	136	186	148	140
ORCF-102	113	98	150	191	141	138
AP LEGACY	133	93	144	180	140	138
9364901A	135	96	140	180	134	137
OR2040726	113	94	145	193	136	136
WB 523	115	96	142	181	136	134
ROD	119	92	141	167	148	133
AP 700 CL	105	91	144	186	139	133
MASAMI	123	98	127	162	150	132
ROD/TUBBS06	112	95	137	172	144	132
ELTAN/TUBBS06	117	99	129	169	144	132
OR2050293	101	86	144	192	136	132
<i>BRUEHL</i>	115	88	139	180	134	131
STEPHENS	111	87	141	187	129	131
ELTAN/MADSEN	116	94	131	179	135	131
SALUTE	116	89	140	172	139	131
ID990435	113	81	136	187	136	131
WB-528	99	90	138	191	135	131
LAMBERT	109	88	139	193	125	130
TUBBS 06	110	84	137	177	144	130
MADSEN/ROD	112	87	142	167	142	130
WA008063	110	87	138	176	139	130
ARS970170-2L	110	103	117	169	151	130
ORCF-103	109	98	123	169	150	130
WB 1066M	110	94	137	183	126	130
<i>CHUKAR</i>	103	98	135	160	151	130
ELTAN	111	101	122	172	142	129
OR2060324	119	102	140	146	137	129
SIMON	122	86	135	177	123	129
CASHUP	112	93	141	171	125	129
WA008065	106	90	132	185	130	128
WA008093	116	88	140	168	128	128
WB 456	96	92	135	187	130	128
BRUNDAGE 96	108	91	126	179	133	128
ORI2060306	105	87	150	158	135	127
ID02-859	110	91	131	161	140	127
KCF08002	112	77	119	189	135	126
BITTERROOT	103	92	134	171	133	126
WB 1020M	108	91	129	169	134	126
SKILES	108	91	133	164	133	126
ORCF-101	100	92	146	160	131	126
BZ6W02-616	97	76	124	206	126	126
FINCH	111	98	136	145	137	125
WA008064	108	97	124	164	133	125
WA008066	109	86	135	159	135	125
WB 1070M	99	76	135	184	129	124
CDC PTARMIGAN	127	91	103	178	123	124
CARA	103	90	144	144	137	123
MADSEN	107	86	122	167	134	123
RJAMES	107	80	128	158	136	122
GEORGE	112	92	119	135	150	122
KCF08001	95	88	119	172	133	121
<i>ARS970071-3C</i>	102	86	127	164	124	121
WA008092	106	88	122	157	130	120
WA008094	111	86	116	157	129	120
CODA	115	77	115	155	130	118
<i>ARS970168-2C</i>	98	84	120	158	111	114

COLTON	FAIRFIELD	FARMINGTON	MOSES LAKE <i>(irrigated)</i>	PULLMAN	AVERAGE TEST WEIGHT
TEST WEIGHT (LBS/BU)					
58.8	59.7	58.7	58.9	60.5	59.3
58.8	59.2	58.0	59.0	60.1	59.0
59.8	60.2	60.9	60.6	60.3	60.4
60.0	60.3	60.5	58.6	61.0	60.1
59.2	60.4	60.6	60.4	60.2	60.2
59.7	59.2	60.0	59.7	60.0	59.7
59.5	60.5	60.1	60.2	60.3	60.1
59.2	58.7	58.0	58.0	60.0	58.8
60.4	60.2	58.2	59.4	61.0	59.8
59.2	59.2	58.1	57.5	59.9	58.8
59.0	58.6	58.4	58.1	60.1	58.8
59.8	59.3	58.3	59.4	60.8	59.5
58.3	59.5	57.9	58.0	60.1	58.8
58.0	59.5	58.0	57.3	59.1	58.4
58.9	60.0	59.0	58.7	59.6	59.2
59.7	59.8	59.6	59.6	60.5	59.8
59.0	58.8	58.0	57.7	59.7	58.6
58.9	59.5	57.8	58.7	60.1	59.0
61.0	60.7	61.4	61.7	61.3	61.2
59.7	60.4	59.7	59.5	60.3	59.9
59.3	59.4	58.3	58.5	60.1	59.1
59.3	59.5	58.7	58.8	60.2	59.3
60.1	60.6	58.1	59.6	60.7	59.8
60.0	59.7	58.1	58.3	61.2	59.5
58.8	60.1	57.3	59.5	60.0	59.1
61.5	61.5	62.5	62.7	62.0	62.0
57.7	58.4	57.7	57.6	59.4	58.2
60.0	60.6	58.6	59.6	60.9	59.9
57.1	57.9	56.9	55.7	57.9	57.1
59.7	60.1	60.6	59.5	60.6	60.1
59.5	59.9	59.2	59.6	60.6	59.8
61.7	60.6	59.5	60.2	61.7	60.7
58.6	59.7	57.5	58.5	59.7	58.8
61.6	61.2	61.5	62.4	61.8	61.7
58.6	58.7	59.1	59.1	59.5	59.0
59.1	60.0	59.4	57.8	60.2	59.3
58.2	59.1	57.8	58.4	59.6	58.6
60.5	60.0	58.1	60.3	60.9	60.0
59.2	60.2	60.7	59.7	60.1	60.0
59.6	61.3	57.7	58.4	60.6	59.5
60.5	59.5	60.0	58.3	60.9	59.8
59.0	59.4	59.3	58.2	60.2	59.2
60.2	61.0	59.5	62.2	60.5	60.7
60.5	60.6	60.0	57.9	61.7	60.1
60.2	59.4	59.1	59.7	60.9	59.9
60.6	60.9	60.7	58.8	62.1	60.6
61.8	61.5	61.6	63.1	61.7	61.9
58.4	59.7	57.8	59.5	59.3	58.9
57.1	59.1	58.0	56.7	59.2	58.0
59.7	60.2	59.2	59.2	60.0	59.7
58.7	59.1	56.0	56.6	59.5	58.0
59.1	59.0	57.7	56.4	60.2	58.5
60.3	59.8	58.2	58.8	61.0	59.6
59.6	60.5	57.6	60.2	60.4	59.7
60.0	60.4	57.6	57.5	60.5	59.2
60.9	59.2	58.6	59.3	61.4	59.9
60.6	61.3	58.8	60.3	61.1	60.4
60.3	61.9	60.0	60.9	61.4	60.9

COLTON	FAIRFIELD	FARMINGTON	MOSES LAKE <i>(irrigated)</i>	PULLMAN	AVERAGE PROTEIN
PROTEIN (%)					
7.7	10.9	12.1	11.8	9.5	10.4
7.4	11.1	11.9	11.6	9.0	10.2
8.3	11.3	11.8	11.5	9.7	10.5
7.9	11.1	11.6	11.6	9.2	10.3
7.6	10.8	11.6	11.1	9.1	10.0
8.1	10.9	11.9	12.0	8.9	10.4
8.2	11.2	11.9	11.8	9.3	10.5
7.6	10.9	11.5	12.2	8.8	10.2
8.3	10.9	12.2	11.9	9.5	10.6
7.2	10.7	11.6	11.5	8.8	10.0
7.7	11.5	11.6	11.8	8.9	10.3
7.8	11.2	12.0	12.0	9.2	10.4
7.8	11.2	12.4	11.7	9.1	10.4
7.9	11.1	12.2	12.5	9.3	10.6
8.5	11.0	11.4	11.6	9.3	10.4
7.8	11.9	12.1	11.9	9.3	10.6
8.3	11.0	12.2	12.1	9.4	10.6
7.9	11.1	12.7	12.1	9.2	10.6
8.3	11.1	12.2	11.8	9.7	10.6
7.9	11.0	11.4	12.0	9.3	10.3
7.8	10.8	11.9	12.0	9.0	10.3
7.4	11.3	12.2	11.8	9.0	10.3
8.0	11.0	12.4	11.9	9.4	10.5
7.5	11.5	12.2	12.5	9.0	10.5
7.9	11.5	12.3	12.0	9.3	10.6
8.8	11.5	12.6	12.6	10.0	11.1
7.3	11.0	12.1	12.8	8.7	10.4
7.5	10.9	12.4	12.2	9.2	10.4
8.0	10.5	11.2	11.9	9.1	10.1
8.4	11.3	12.0	11.8	9.7	10.6
8.1	10.9	11.5	12.0	9.3	10.4
8.2	11.4	12.8	12.5	9.6	10.9
8.1	11.4	12.3	11.9	9.5	10.6
8.6	11.8	12.9	11.9	10.1	11.1
8.0	11.1	12.0	11.6	9.2	10.4
8.3	11.4	13.0	12.8	9.6	11.0
7.6	11.5	11.8	12.2	8.9	10.4
8.6	11.4	12.1	12.0	9.7	10.8
7.6	11.7	12.0	11.4	9.3	10.4
8.1	10.5	12.3	11.9	9.8	10.5
8.2	11.3	12.6	12.5	9.9	10.9
8.5	11.4	12.1	11.1	9.2	10.5
7.6	11.4	11.9	12.5	9.0	10.5
8.3	11.7	12.5	12.0	9.5	10.8
7.7	11.4	11.8	12.3	9.1	10.5
9.4	12.5	12.8	12.3	10.0	11.4
7.7	10.5	11.6	11.3	8.4	9.9
7.5	10.9	12.1	13.3	9.3	10.6
8.4	11.3	12.6	12.1	9.7	10.8
7.7	11.2	11.8	11.6	9.1	10.3
7.6	11.6	12.0	12.1	9.4	10.5
8.2	11.7	12.2	12.3	9.7	10.8
7.9	11.0	12.8	12.7	9.8	10.8
8.2	11.3	12.7	12.0	9.5	10.7
8.0	11.8	12.7	12.3	9.4	10.8
8.3	11.5	12.9	12.8	9.3	11.0
8.4	11.5	12.2	11.6	9.8	10.7

	STATISTICS					
CV (%)	9	12	8	7	5	8
LSD (0.10)	13	14	14	16	9	6
Average	111	91	133	172	136	129
Highest	135	111	150	206	151	145
Lowest	95	76	103	135	111	114

	STATISTICS					
0.6	1.2	1.3	1.5	0.4	1.1	
0.5	0.9	1.0	1.2	0.3	0.4	
59.6	59.9	58.9	59.1	60.4	59.6	
61.8	61.9	62.5	63.1	62.1	62.1	
57.1	57.9	56.0	55.7	57.9	57.1	

	STATISTICS					
3.8	4.1	3.3	2.8	1.7	3.3	
0.4	0.6	0.5	0.5	0.2	0.2	
8.0	11.3	12.1	12.0	9.4	10.6	
9.4	12.5	13.0	13.3	10.4	11.4	
7.2	10.5	11.2	11.1	8.4	9.9	

2009 WSU Soft White Winter Wheat Trial Summary

Precipitation Zone >20" – Preliminary Data

1. Soft white winter wheat grain yield across five locations and 58 entries in the >20" precipitation zone averaged 129 bushels/acre, 7 bushels/acre higher than the 2008 average of 122 bushels/acre. The CV for the average data was 6. These trials were designed and analyzed as Alpha Lattice designs that overall helped to account for within replication variation and reduced LSD and CV values.
2. Test weight averaged 59.6 lb/bu across locations 1.0 lb/bu higher than last year. Grain protein averaged 10.6%, 1.1% lower than last year's 11.7% value.
3. When evaluating variety performance, consider as many locations and years as possible with similar environments. These summaries by rainfall zone are helpful because of similar environments, but also evaluate variety performance across years that can show variety adaptation. Past performance of a variety across locations and years is the best predictor of future performance.

2009 WSU SOFT WHITE WINTER WHEAT TRIAL SUMMARY
Precipitation Zone= 16"-20"

VARIETY NAME (SWH Club in italics)	DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE YIELD
	YIELD (BU/A)					
TUBBS 06	155	92	105	170	144	133
XERPHA	142	102	102	161	151	131
AP LEGACY	160	94	96	163	143	131
CHUKAR	139	99	89	178	145	130
CARA	146	88	97	170	144	129
ORCF-102	152	87	106	156	140	128
ARS970170-2L	139	102	95	164	141	128
OR2060324	137	101	95	163	144	128
LEGION	143	99	99	152	146	128
WB 523	152	88	97	159	142	128
FINCH	154	94	101	148	142	127
ROD/TUBBS06	147	98	95	154	143	127
OR2040726	140	89	94	166	146	127
OR2050293	144	89	93	159	143	125
SKILES	135	99	94	153	144	125
WB-528	152	90	84	151	146	125
RJAMES	144	88	102	155	133	124
WA008066	140	93	107	144	137	124
ORCF-103	140	95	98	152	135	124
MADSEN/ROD	146	90	100	146	137	124
ELTAN/TUBBS06	140	94	90	155	139	124
ID990435	143	84	95	154	141	123
AP 700 CL	144	85	95	153	140	123
ARS970071-3C	142	91	88	155	139	123
WA008065	140	95	90	142	143	122
ROD	146	96	82	147	137	122
9364901A	137	90	85	153	139	121
STEPHENS	139	95	84	147	140	121
ELTAN	138	89	103	142	131	121
BZ6W02-616	154	72	80	152	144	120
ID02-859	128	89	101	150	130	119
MADSEN	142	90	89	149	126	119
SALUTE	149	89	82	138	137	119
WA008064	138	92	85	142	138	119
WB 456	141	73	83	157	141	119
BRUNDAGE 96	135	85	89	153	133	119
SIMON	139	80	91	155	129	119
KCF08001	133	88	85	147	139	118
ELTAN/MADSEN	120	85	106	154	127	118
ORI2060306	136	83	94	148	130	118
ORCF-101	138	92	87	149	125	118
LAMBERT	126	81	85	157	142	118
MASAMI	123	94	95	145	131	118
WB 1070M	150	87	72	139	141	118
BRUEHL	116	90	99	144	138	117
WA008063	130	94	89	138	136	117
CODA	145	83	82	137	135	116
WB 1066M	139	75	83	149	133	116
WB 1020M	123	84	97	147	128	116
GEORGE	120	92	102	139	122	115
CASHUP	130	80	99	137	129	115
KCF08002	139	78	86	136	136	115
BITTERROOT	137	82	86	135	133	115
ARS970168-2C	131	76	91	142	129	114
WA008093	127	78	87	140	134	113
WA008094	114	82	95	134	126	110
WA008092	111	80	93	146	120	110
CDC PTARMIGAN	115	77	106	126	116	108
STATISTICS						
CV (%)	6	7	11	6	4	7
LSD (0.10)	12	8	14	13	7	5
Average	138	88	93	150	137	121
Highest	160	102	107	178	151	133
Lowest	111	72	72	126	116	108

DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE TEST WEIGHT
TEST WEIGHT (LBS/BU)					
59.3	60.7	58.9	59.5	58.9	59.5
59.3	61.1	60.1	58.5	59.7	59.7
60.3	61.4	60.6	60.1	60.3	60.5
59.7	60.0	58.8	58.4	60.0	59.4
59.2	59.8	59.4	57.8	59.1	59.1
61.4	61.7	60.2	60.9	61.1	61.1
59.4	61.7	60.6	60.0	60.0	60.3
57.5	58.3	56.8	57.6	57.3	57.5
58.4	60.8	58.7	58.1	58.2	58.8
61.7	61.8	60.7	59.6	61.4	61.0
61.4	62.6	61.7	60.8	61.4	61.6
59.1	60.8	59.1	58.8	58.8	59.3
61.0	61.5	60.2	60.4	60.9	60.8
60.3	60.6	59.2	58.6	58.7	59.5
60.8	61.7	59.6	59.5	61.4	60.6
61.7	62.3	61.2	59.8	62.0	61.4
57.5	60.5	59.1	56.4	58.5	58.4
61.7	62.3	62.0	60.9	61.7	61.7
60.1	61.0	60.0	57.2	60.5	59.8
59.4	60.8	59.7	58.4	59.4	59.5
59.9	61.0	60.3	58.7	59.8	59.9
59.6	60.5	59.4	58.7	59.9	59.6
59.4	62.1	59.3	59.2	59.8	60.0
61.8	61.7	59.9	59.3	61.0	60.7
60.8	62.8	60.7	59.4	60.7	60.9
59.3	60.7	59.3	55.6	58.5	58.7
61.2	61.6	60.1	59.6	60.8	60.7
59.0	60.8	59.1	57.8	59.6	59.3
60.4	61.4	61.1	57.5	60.4	60.2
61.3	62.6	60.9	58.8	62.3	61.2
59.7	60.4	58.7	59.1	59.9	59.6
60.4	61.2	59.7	60.4	59.6	60.3
58.6	60.0	58.7	57.1	58.6	58.6
59.8	61.9	61.1	57.4	60.1	60.1
61.8	62.8	61.1	61.4	62.7	62.0
60.3	60.4	58.5	58.8	59.7	59.5
61.2	60.3	59.9	60.1	59.7	60.2
58.7	61.4	60.2	58.9	60.3	59.9
60.3	61.3	60.3	59.6	60.5	60.4
60.4	61.4	60.2	59.6	60.3	60.4
60.3	60.7	59.3	58.7	59.9	59.8
58.2	60.9	59.9	58.8	60.8	59.7
58.6	60.2	59.1	57.8	58.8	58.9
62.9	63.1	62.1	61.5	63.4	62.6
57.8	59.5	59.8	55.3	58.8	58.2
59.1	61.9	60.9	57.0	59.5	59.7
61.8	62.2	61.2	59.6	62.0	61.4
63.0	61.8	61.1	61.9	63.1	62.2
59.7	61.4	60.3	59.3	59.7	60.1
58.7	61.0	59.3	58.0	59.6	59.3
61.0	61.4	60.6	58.3	60.5	60.4
59.0	61.0	59.6	57.9	60.5	59.6
61.4	61.4	60.4	59.7	61.1	60.8
62.4	62.3	62.3	61.4	62.6	62.2
59.3	61.4	59.2	57.5	58.6	59.2
60.2	62.2	61.1	59.6	61.0	60.8
58.8	60.9	60.3	59.2	59.0	59.6
58.9	60.0	59.1	57.6	59.2	59.0
STATISTICS					
1.0	0.4	0.9	1.3	0.7	0.9
0.8	0.3	0.7	1.0	0.6	0.3
60.1	61.2	60.0	58.9	60.2	60.1
63.0	63.1	62.3	61.9	63.4	62.6
57.5	58.3	56.8	55.3	57.3	57.5

DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE PROTEIN
PROTEIN (%)					
11.5	10.4	10.5	9.3	11.8	10.7
12.0	10.6	11.2	9.8	11.9	11.1
11.0	10.4	11.2	9.6	11.0	10.6
11.1	9.9	10.8	8.8	10.9	10.3
11.0	10.2	11.0	9.4	10.6	10.4
12.0	11.1	11.0	10.6	11.8	11.3
12.3	10.5	10.6	9.7	11.7	11.0
11.0	9.9	10.8	10.1	11.1	10.6
12.0	10.4	11.4	10.1	11.5	11.1
10.9	10.7	11.4	9.1	11.6	10.7
11.9	10.3	11.2	9.9	11.3	10.9
11.6	10.6	10.8	9.7	11.2	10.8
11.9	10.2	11.4	10.6	11.5	11.1
10.5	10.7	11.5	9.7	11.5	10.8
12.4	11.8	11.8	10.4	11.8	11.6
11.9	11.0	11.6	10.3	11.4	11.2
11.4	10.2	10.9	9.3	11.9	10.7
12.0	10.5	11.3	9.8	11.1	10.9
12.0	10.7	11.1	10.6	11.6	11.2
12.2	10.7	11.2	9.7	11.4	11.0
11.6	10.7	11.0	10.3	11.9	11.1
10.9	10.1	11.0	9.9	12.0	10.8
12.2	10.6	11.5	10.3	11.7	11.3
11.7	10.7	11.5	10.0	12.2	11.2
12.3	10.8	11.9	10.0	12.1	11.4
11.5	10.3	10.2	9.0	11.2	10.4
11.2	10.4	10.8	9.6	10.8	10.6
12.0	10.3	11.3	11.2	12.0	11.4
11.9	11.0	11.8	9.4	11.7	11.2
11.2	10.4	11.3	9.8	11.7	10.9
12.6	10.1	10.9	10.4	11.7	11.1
12.7	11.2	11.2	10.3	11.9	11.5
11.8	10.2	11.1	10.3	11.9	11.1
11.5	11.0	11.5	10.2	11.4	11.1
12.8	11.1	11.6	11.1	12.2	11.8
11.9	10.3	10.7	11.0	11.6	11.1
11.5	11.2	11.3	10.3	11.6	11.2
12.0	11.1	11.7	10.1	11.6	11.3
12.3	11.0	10.4	9.8	11.7	11.0
12.5	11.2	12.2	10.8	12.2	11.8
12.5	11.2	11.6	11.1	12.1	11.7
11.7	10.1	11.3	10.0	10.5	10.7
12.0	10.1	10.7	9.9	11.3	10.8
12.3	11.1	13.1	11.0	11.8	11.9
12.4	10.9	11.1	9.7	12.0	11.2
11.8	11.3	12.1	10.2	11.8	11.4
12.0	10.5	11.7	10.9	11.9	11.4
12.7	11.8	11.7	11.3	12.6	12.0
12.5	10.3	11.1	10.0	11.9	11.2
12.8	11.1	11.1	10.4	12.0	11.5
11.0	10.2	10.9	9.7	11.0	10.6
11.8	11.4	11.3	10.7	11.5	11.3
11.3	11.4	11.0	9.9	11.2	11.0
11.6	10.4	11.7	10.6	11.5	11.2
11.7	10.8	11.4	10.5	11.8	11.2
12.4	10.9	11.8	10.0	11.8	11.4
12.7	11.0	11.5	10.2	12.6	11.6
11.4	10.0	10.4	10.0	10.7	10.5
STATISTICS					
5.0	3.0	5.5	5.9	4.6	4.9
0.8	0.4	0.8	0.8	0.7	0.3
11.9	10.7	11.3	10.1	11.6	11.1
12.8	11.8	13.1	11.3	12.6	12.0
10.5	9.9	10.2	8.8	10.5	10.3

2009 WSU Soft White Winter Wheat Trial Summary Precipitation Zone 16"-20" – Preliminary Data

1. Soft white winter wheat grain yield across five locations and 58 entries in the 16"-20" precipitation zone averaged 121 bushels/acre, 18 bushels/acre higher than the 2008 average of 103 bushels/acre. The CV for the average data was 7. These trials were designed and analyzed as Alpha Lattice designs that overall helped to account for within replication variation and reduced LSD and CV values.
2. Test weight averaged 60.1 lb/bu across locations 1.1 lb/bu higher than last year. Grain protein averaged 11.1%, 0.8% lower than last year's 11.9% value.
3. When evaluating variety performance, consider as many locations and years as possible with similar environments. These summaries by rainfall zone are helpful because of similar environments, but also evaluate variety performance across years that can show variety adaptation. Past performance of a variety across locations and years is the best predictor of future performance.

2009 WSU SOFT WHITE WINTER WHEAT TRIAL SUMMARY
 Precipitation Zone= 12"-16"

VARIETY NAME <i>(SWH Club in italics)</i>	ALMIRA	ANATONE	CRESTON	DUSTY	LAMONT	AVERAGE YIELD
	YIELD (BU/A)					
XERPHA	121	96	137	105	106	113
AP LEGACY	116	89	123	106	102	107
GEORGE	120	80	141	110	79	106
FINCH	117	86	138	89	100	106
RJAMES	127	92	127	96	81	104
WA008092	109	80	150	98	84	104
ELTAN/TUBBS06	116	84	149	89	80	104
ARS970170-2L	108	82	140	96	89	103
ARS970071-3C	102	75	126	94	115	103
WA008063	114	87	114	95	101	102
MASAMI	117	83	136	84	86	101
ELTAN	112	81	127	91	94	101
OR2060324	116	87	121	81	99	101
ORCF-103	107	91	112	104	87	100
ROD/TUBBS06	116	87	129	83	83	100
SALUTE	116	83	119	93	85	99
ROD	106	77	130	92	89	99
WA008064	106	82	117	100	90	99
9364901A	126	78	134	85	70	99
WA008066	109	84	123	83	94	99
ELTAN/MADSEN	115	71	140	79	86	98
TUBBS 06	110	83	133	82	80	98
ID02-859	103	82	127	89	85	97
SKILES	113	80	102	97	93	97
WB 523	121	85	115	81	83	97
OR2040726	113	86	116	74	93	96
MADSEN/ROD	105	80	127	86	83	96
BRUNDAGE 96	117	86	130	73	72	96
ORCF-102	108	87	105	94	84	96
CHUKAR	97	73	103	98	108	96
CARA	105	70	96	96	110	96
BRUEHL	107	71	124	92	81	95
CDC PTARMIGAN	107	77	139	73	79	95
WA008093	107	85	119	84	79	95
AP 700 CL	117	92	124	70	71	95
WA008094	104	77	127	84	81	94
LEGION	123	81	110	83	71	93
WB 456	107	92	113	78	74	93
MADSEN	112	81	120	79	68	92
KCF08002	115	87	91	79	87	91
CODA	99	81	113	78	86	91
WA008065	112	79	92	79	91	91
ID990435	105	73	127	75	74	91
ORI2060306	110	83	93	79	86	90
ARS970168-2C	104	75	103	77	90	90
WB 1020M	113	71	124	69	69	89
OR2050293	113	80	93	72	88	89
STEPHENS	110	79	113	71	66	88
BZ6W02-616	114	79	105	66	74	88
LAMBERT	104	78	111	75	70	88
KCF08001	115	79	90	81	74	88
WB 1066M	114	86	101	71	65	87
WB-528	112	77	106	65	68	86
BITTERROOT	103	71	119	65	68	85
CASHUP	93	60	102	82	80	83
ORCF-101	102	76	58	86	81	81
SIMON	104	70	92	60	69	79
WB 1070M	102	80	87	53	54	75
	STATISTICS					
CV (%)	7	8	17	10	13	12
LSD (0.10)	10	9	28	12	15	7
Average	111	81	117	84	83	95
Highest	127	96	150	110	115	113
Lowest	93	60	58	53	54	75

ALMIRA	ANATONE	CRESTON	DUSTY	LAMONT	AVERAGE TEST WEIGHT	
TEST WEIGHT (LBS/BU)						
59.4	60.4	59.3	59.0	60.2	59.7	
60.3	59.3	59.7	59.7	59.8	59.8	
58.0	59.0	58.6	60.0	59.8	59.1	
61.4	61.4	60.4	60.8	61.7	61.1	
58.4	57.7	58.0	58.3	59.8	58.4	
59.9	59.7	58.1	60.4	60.8	59.8	
59.8	60.4	59.1	59.8	59.5	59.7	
59.9	60.2	59.6	59.7	60.2	59.9	
60.0	60.1	59.0	59.9	61.2	60.0	
60.0	59.9	60.4	59.9	61.4	60.3	
59.3	58.1	58.7	59.1	59.3	58.9	
59.2	60.6	59.2	60.1	61.4	60.1	
57.0	57.4	56.0	56.3	57.9	56.9	
59.2	59.7	57.3	60.0	60.3	59.3	
59.2	58.5	58.9	58.3	59.1	58.8	
58.7	57.7	57.9	58.5	59.7	58.5	
58.2	57.8	58.4	58.3	58.9	58.3	
59.9	60.5	60.4	60.3	60.9	60.4	
61.0	60.7	59.2	59.4	60.8	60.2	
60.9	61.6	60.5	61.2	61.2	61.1	
60.3	60.4	59.6	59.3	59.8	59.9	
59.1	59.4	59.0	58.6	59.9	59.2	
58.8	59.4	58.5	58.5	59.6	59.0	
59.8	60.2	57.9	60.2	60.4	59.7	
60.3	60.1	59.7	59.7	61.6	60.3	
60.4	59.7	58.9	59.1	60.3	59.7	
59.2	59.5	58.2	59.0	59.5	59.1	
59.6	59.6	58.5	58.3	59.6	59.1	
60.4	60.6	59.5	59.9	60.6	60.2	
57.5	58.6	56.0	58.6	60.6	58.3	
56.7	57.3	56.3	58.2	58.9	57.5	
58.2	59.9	58.9	59.5	59.7	59.2	
58.8	59.0	58.1	58.0	60.3	58.8	
59.9	59.4	58.5	59.2	60.5	59.5	
60.2	59.7	59.2	58.6	59.8	59.5	
60.6	61.3	59.7	60.9	61.2	60.7	
58.7	58.5	58.5	58.6	59.6	58.8	
62.0	62.2	61.1	61.0	61.4	61.5	
60.3	60.3	59.3	59.1	59.5	59.7	
60.4	60.7	59.0	59.6	60.6	60.1	
60.7	61.1	60.8	60.7	61.4	60.9	
61.1	61.6	60.6	60.4	62.5	61.2	
58.8	58.9	59.1	59.0	60.5	59.3	
60.6	59.9	58.3	59.6	60.5	59.8	
62.3	62.1	58.2	61.0	62.4	61.2	
59.6	60.6	59.2	59.3	60.3	59.8	
58.1	58.4	58.2	57.4	59.4	58.3	
58.6	58.5	58.6	58.3	59.6	58.7	
60.6	61.3	60.2	59.8	60.7	60.5	
59.8	59.6	59.0	59.4	60.7	59.7	
60.8	59.7	58.8	60.0	60.6	60.0	
61.7	62.5	60.3	60.6	61.6	61.3	
61.1	61.3	60.0	60.2	61.5	60.8	
60.6	60.5	57.8	59.6	60.7	59.8	
60.3	60.0	59.4	59.5	61.5	60.1	
59.4	59.8	57.4	58.8	59.3	58.9	
60.6	60.3	57.4	58.5	59.9	59.3	
61.9	62.3	61.5	61.1	61.6	61.7	
	STATISTICS					
0.8	1.1	1.5	0.7	1.0	1.1	
0.7	0.9	1.2	0.6	0.9	0.4	
59.8	59.9	58.9	59.4	60.4	59.7	
62.3	62.5	61.5	61.2	62.5	61.7	
56.7	57.3	56.0	56.3	57.9	56.9	

ALMIRA	ANATONE	CRESTON	DUSTY	LAMONT	AVERAGE PROTEIN	
PROTEIN (%)						
9.9	9.9	9.6	9.7	11.2	10.1	
10.0	10.2	9.8	9.7	12.2	10.4	
10.9	11.1	9.2	10.8	12.3	10.9	
10.1	10.5	9.2	9.8	12.1	10.3	
9.0	10.0	9.6	9.7	12.9	10.2	
10.8	10.9	10.2	10.1	13.3	11.1	
10.0	10.8	9.4	11.1	11.9	10.6	
10.2	10.9	9.6	11.0	11.5	10.6	
10.3	11.3	10.6	10.6	12.7	11.1	
10.2	10.9	10.3	10.5	12.3	10.8	
10.1	11.0	9.2	9.2	11.4	10.2	
10.5	10.5	9.6	9.6	12.2	10.5	
10.1	9.9	9.5	10.0	11.5	10.2	
10.0	10.7	9.9	10.7	12.4	10.7	
9.9	10.4	9.9	9.8	10.7	10.1	
9.9	10.6	10.2	10.2	11.7	10.5	
10.5	10.9	9.3	9.5	11.1	10.3	
10.2	10.5	10.3	10.7	12.3	10.8	
10.1	10.1	9.2	10.3	13.1	10.6	
10.3	10.8	9.5	10.5	11.7	10.6	
10.0	11.8	10.3	9.8	12.9	11.0	
9.7	10.7	10.1	10.9	12.6	10.8	
11.1	10.4	9.5	10.8	12.6	10.9	
10.5	12.1	10.9	11.5	12.8	11.6	
10.3	10.6	10.2	9.9	12.0	10.6	
10.6	10.6	9.5	10.4	11.5	10.5	
10.1	10.8	10.5	10.1	12.6	10.8	
10.3	10.7	10.0	10.6	11.8	10.7	
10.1	10.7	9.5	11.0	12.1	10.7	
10.1	10.8	10.0	9.5	11.1	10.3	
9.7	10.9	9.5	9.6	11.4	10.2	
9.7	11.1	10.6	10.5	12.6	10.9	
9.9	10.3	9.6	9.3	11.4	10.1	
11.2	10.5	9.7	10.4	13.1	11.0	
9.7	10.9	10.8	10.9	12.8	11.0	
11.4	10.9	10.2	10.6	11.9	11.0	
9.7	10.9	10.0	10.9	11.2	10.5	
11.1	11.1	11.0	11.7	13.9	11.8	
10.4	11.1	10.9	11.0	11.6	11.0	
10.4	10.5	10.4	10.8	12.4	10.9	
10.1	10.6	10.1	10.2	11.7	10.5	
10.7	11.0	10.9	9.7	13.2	11.1	
11.0	11.1	10.7	10.3	12.3	11.1	
11.1	11.3	10.8	10.6	12.9	11.3	
10.4	10.8	10.9	10.7	12.2	11.0	
10.4	10.7	9.9	10.2	12.3	10.7	
10.2	11.3	10.3	10.3	12.9	11.0	
11.0	11.1	10.1	10.5	12.4	11.0	
10.0	10.6	10.5	11.1	12.0	10.8	
10.4	10.4	9.8	10.2	12.0	10.6	
9.8	10.9	11.1	10.8	12.2	11.0	
10.7	11.1	10.7	11.5	12.3	11.3	
10.9	10.4	10.2	11.0	12.6	11.0	
10.9	11.1	10.0	10.6	13.8	11.3	
11.1	10.7	9.5	9.7	12.5	10.7	
10.7	12.1	11.5	11.0	12.4	11.5	
10.0	11.4	10.6	10.7	13.5	11.2	
11.7	10.9	11.6	11.6	13.7	11.9	
	STATISTICS					
8.0	4.6	5.7	5.5	6.1	6.1	
1.1	0.7	0.8	0.8	1.0	0.4	
10.4	10.8	10.1	10.4	12.3	10.8	
11.7	12.1	11.6	11.7	13.9	11.9	
9.0	9.9	9.2	9.2	10.7	10.1	

2009 WSU Soft White Winter Wheat Trial Summary

Precipitation Zone 12"-16" – Preliminary Data

1. Soft white winter wheat grain yield across five locations and 58 entries in the 12"-16" precipitation zone averaged 95 bushels/acre, 11 bushels/acre higher than the 2008 average of 84 bushels/acre. The CV for the average data was 12 and was higher than desired largely because of high variability at Creston. These trials were designed and analyzed as Alpha Lattice designs that overall helped to account for within replication variation and reduced LSD and CV values.
2. Test weight averaged 59.7 lb/bu across locations 1.5 lb/bu higher than in 2008. Grain protein averaged 10.8% nearly equaling last year's 10.9% value.
3. When evaluating variety performance, consider as many locations and years as possible with similar environments. These summaries by rainfall zone are helpful because of similar environments, but also evaluate variety performance across years that can show variety adaptation. Past performance of a variety across locations and years is the best predictor of future performance.

2009 WSU SOFT WHITE WINTER WHEAT TRIAL SUMMARY
Precipitation Zone= <12"

VARIETY NAME (<i>SWH Club in italics</i>)	YIELD (BU/A)					TEST WEIGHT (LBS/BU)						PROTEIN (%)						
	CONNELL	HORSE HEAVEN	LIND	RITZVILLE	ST. ANDREWS	AVERAGE YIELD	CONNELL	HORSE HEAVEN	LIND	RITZVILLE	ST. ANDREWS	AVERAGE TEST WEIGHT	CONNELL	HORSE HEAVEN	LIND	RITZVILLE	ST. ANDREWS	AVERAGE PROTEIN
ELTAN	52	15	35	64	29	39	58.9	58.5	60.9	61.0	59.6	59.8	13.2	14.9	12.4	9.9	9.7	12.0
XERPHA	50	15	28	60	37	38	59.2	60.4	58.6	59.9	58.7	59.4	13.1	15.2	12.7	9.8	9.2	12.0
<i>ARS970071-3C</i>	47	12	29	56	42	37	58.5	59.2	59.9	60.0	59.0	59.3	13.9	15.8	13.6	10.6	11.0	13.0
<i>ORCF-103</i>	53	13	35	54	29	37	59.4	59.2	60.3	60.7	59.0	59.7	14.4	15.9	12.6	11.1	9.6	12.7
<i>AP LEGACY</i>	50	13	36	56	29	37	58.7	58.9	59.5	59.4	58.9	59.1	12.1	14.8	12.8	10.4	10.1	12.0
<i>ELTAN/MADSEN</i>	52	13	32	61	26	37	59.1	58.9	60.9	60.7	59.1	59.7	13.6	15.6	12.1	10.3	10.2	12.4
<i>GEORGE</i>	49	10	34	60	30	37	58.0	58.6	59.3	59.6	58.3	58.8	14.1	15.5	12.6	10.2	10.0	12.5
<i>ELTAN/TUBBS06</i>	51	14	33	56	28	36	58.7	58.4	60.9	60.7	58.6	59.5	13.7	15.2	12.5	10.0	10.5	12.4
<i>LEGION</i>	59	14	23	56	28	36	58.4	58.7	58.2	58.8	59.3	58.7	12.8	16.2	12.9	10.0	10.6	12.5
<i>MASAMI</i>	49	13	31	58	30	36	57.8	58.4	59.3	59.5	58.5	58.7	14.0	15.7	12.2	10.1	10.2	12.4
<i>ARS970170-2L</i>	49	13	35	53	30	36	58.6	58.8	59.4	60.2	59.0	59.2	15.2	15.6	12.9	10.2	10.7	12.9
<i>SKILES</i>	56	14	32	47	30	36	58.7	58.6	59.7	60.6	59.1	59.3	14.0	15.4	14.4	11.6	10.6	13.2
<i>FINCH</i>	54	9	32	53	30	36	60.4	59.9	59.3	60.4	60.0	60.0	12.8	14.8	12.8	10.9	10.0	12.3
<i>RJAMES</i>	53	12	29	56	26	35	56.4	56.1	58.4	58.8	57.6	57.5	13.1	15.5	12.1	10.1	10.0	12.2
<i>WA008066</i>	48	12	38	51	27	35	59.7	59.3	59.7	60.5	60.1	59.9	13.1	15.0	12.3	10.9	10.0	12.3
<i>ARS970168-2C</i>	47	13	28	54	33	35	60.9	58.8	60.6	61.2	60.4	60.4	13.5	15.0	12.6	10.8	10.9	12.6
<i>BRUEHL</i>	47	11	29	57	29	35	58.1	60.5	58.3	60.8	59.2	59.4	14.7	15.1	12.7	10.6	10.8	12.8
<i>WB-528</i>	52	15	25	46	35	35	61.1	59.8	59.6	61.0	60.0	60.3	12.9	15.1	13.9	10.9	10.7	12.7
<i>WB 1020M</i>	44	13	26	52	38	34	59.7	60.7	60.6	60.4	59.6	60.2	14.0	15.1	12.9	10.6	9.4	12.4
<i>WA008092</i>	46	12	34	54	26	34	58.8	60.5	58.8	60.7	58.8	59.5	13.7	15.0	12.3	10.8	10.7	12.5
<i>WA008094</i>	48	11	33	53	26	34	59.4	59.7	58.5	61.0	60.0	59.7	14.4	15.3	12.2	10.8	9.6	12.5
<i>OR2060324</i>	45	11	--	41	35	33	56.3	57.4	--	56.0	54.7	56.1	12.1	14.6	--	11.0	9.7	11.9
<i>ORCF-102</i>	49	13	23	51	28	32	59.8	60.0	58.2	60.6	59.6	59.6	13.8	16.1	13.4	11.4	10.3	13.0
<i>WB 1066M</i>	47	14	21	52	27	32	61.5	59.5	60.1	61.1	60.0	60.4	14.0	15.7	13.7	11.2	11.0	13.1
<i>WA008065</i>	47	13	25	49	28	32	59.2	59.4	59.6	61.0	60.4	59.9	14.3	16.3	13.5	11.8	11.8	13.5
<i>ID02-859</i>	43	12	23	50	34	32	57.9	57.9	58.7	58.8	58.1	58.3	14.0	16.1	13.1	11.0	10.2	12.9
<i>WB 523</i>	45	11	25	55	23	32	60.3	60.4	59.6	61.2	59.6	60.2	13.7	15.8	13.6	11.2	10.7	13.0
<i>CARA</i>	40	9	24	50	37	32	57.0	58.3	58.5	58.4	57.4	57.9	14.6	16.4	13.0	10.7	11.1	13.2
<i>ROD/TUBBS06</i>	51	10	20	48	31	32	58.0	58.2	57.1	58.8	58.3	58.1	12.9	15.7	13.2	10.9	10.7	12.7
<i>OR2040726</i>	47	12	22	49	29	32	59.7	57.7	56.8	59.4	58.3	58.4	13.2	16.1	13.3	11.2	10.4	12.8
<i>CHUKAR</i>	47	11	19	40	43	32	58.7	59.3	55.1	58.4	57.7	57.8	14.3	16.1	13.1	11.0	10.0	12.9
<i>CDC PTARMIGAN</i>	38	14	23	54	29	32	57.5	59.1	58.1	58.7	58.1	58.3	13.5	15.2	12.2	10.5	10.5	12.4
<i>BRUNDAGE 96</i>	46	12	23	48	29	32	58.6	57.8	59.3	59.1	57.6	58.5	13.3	15.9	13.0	10.9	10.5	12.7
<i>WA008063</i>	47	12	28	53	20	32	58.4	58.6	60.3	60.1	59.1	59.3	14.5	15.8	13.8	11.0	12.5	13.5
<i>TUBBS 06</i>	50	13	24	45	26	32	57.8	57.8	58.4	59.1	58.3	58.3	13.7	15.6	13.0	11.6	10.1	12.8
<i>MADSEN/ROD</i>	48	12	14	50	31	31	58.9	59.0	56.6	59.9	58.2	58.5	14.1	15.8	13.4	10.7	10.5	12.9
<i>WA008064</i>	51	11	24	44	26	31	58.6	59.1	60.4	60.1	59.9	59.6	14.5	16.3	13.7	11.6	11.6	13.5
<i>CODA</i>	48	8	20	45	34	31	60.6	60.9	60.3	61.0	60.0	60.6	13.1	16.4	13.1	12.0	10.1	12.9
<i>WA008093</i>	47	10	25	53	21	31	59.1	61.2	60.5	60.7	59.4	60.2	14.2	15.7	13.2	10.8	11.4	13.1
<i>ROD</i>	52	11	21	44	27	31	58.3	57.7	56.6	58.2	58.0	57.8	13.4	15.1	12.8	11.2	10.9	12.7
<i>BITTERROOT</i>	46	13	20	50	25	31	60.4	61.3	58.0	61.0	59.6	60.1	13.1	15.3	13.5	10.5	10.7	12.6
<i>BZ6W02-616</i>	46	14	19	54	21	31	60.5	59.0	60.6	60.9	61.1	60.4	13.5	15.2	13.6	10.5	11.2	12.8
<i>9364901A</i>	41	12	17	54	30	31	60.1	58.8	57.9	60.2	59.5	59.3	12.7	14.3	13.4	11.0	10.4	12.4
<i>MADSEN</i>	46	11	17	49	28	30	59.1	59.9	58.5	60.0	58.9	59.3	14.0	16.3	13.8	10.9	10.8	13.2
<i>SALUTE</i>	39	11	28	44	27	30	57.3	57.3	57.4	58.4	55.7	57.2	13.9	15.7	13.2	11.2	10.7	12.9
<i>AP 700 CL</i>	46	11	20	47	25	30	58.9	58.5	59.3	59.6	58.5	59.0	13.1	16.1	13.9	11.5	11.5	13.2
<i>ORI2060306</i>	44	12	19	44	28	29	58.9	58.4	57.0	60.0	59.6	58.8	14.8	16.7	13.8	12.1	11.1	13.7
<i>STEPHENS</i>	48	13	21	41	25	29	58.6	57.4	57.8	58.6	58.7	58.2	13.3	15.7	13.1	11.9	11.1	13.0
<i>LAMBERT</i>	47	12	15	44	28	29	59.7	58.3	58.8	60.0	58.4	59.0	13.2	15.9	12.5	11.3	9.4	12.5
<i>SIMON</i>	44	13	18	44	26	29	59.4	58.8	56.9	60.0	59.2	58.9	13.8	15.1	13.4	12.2	10.5	13.0
<i>CASHUP</i>	39	11	24	44	25	29	59.3	60.3	60.2	60.9	58.6	59.9	13.3	15.4	13.0	11.3	10.7	12.7
<i>ORCF-101</i>	46	11	18	40	28	29	59.2	58.5	57.0	58.7	58.7	58.4	13.7	16.2	14.0	12.2	10.6	13.3
<i>OR2050293</i>	47	13	19	42	22	28	57.4	55.3	58.1	56.7	56.4	56.8	12.9	15.5	13.0	12.2	11.1	12.9
<i>KCF08001</i>	39	12	20	40	29	28	59.3	59.7	58.2	59.9	59.0	59.2	13.9	14.8	14.0	11.6	10.6	13.0
<i>WB 456</i>	39	15	20	46	20	28	59.4	58.9	60.5	61.4	60.8	60.2	15.9	16.3	14.5	12.1	11.5	14.1
<i>ID990435</i>	44	13	13	44	25	28	59.3	58.4	58.4	59.1	58.5	58.7	13.6	15.1	13.4	11.6	9.9	12.7
<i>KCF08002</i>	40	12	11	45	28	27	59.5	59.6	57.2	60.1	58.2	58.9	13.8	14.9	14.0	11.6	11.3	13.1
<i>WB 1070M</i>	45	13	13	33	22	25	62.4	60.9	59.6	61.7	61.2	61.2	14.5	15.7	14.8	12.8	13.8	14.3
	STATISTICS						STATISTICS						STATISTICS					
CV (%)	9	13	24	8	15	13	1.0	--	2.3	0.8	1.1	1.5	5.2	3.2	4.1	5.5	7.0	4.9
LSD (0.10)	6	2	8	6	6	3	0.8	--	1.8	0.6	0.9	0.6	1.0	0.7	0.7	0.8	1.0	0.4
Average	47	12	24	50	29	32	59.0	59.0	58.9	59.9	58.9	59.1	13.7	15.6	13.2	11.1	10.6	12.8
Highest	59	15	38	64	43	39	62.4	61.3	60.9	61.7	61.2	61.2	15.9	16.7	14.8	12.8	13.8	14.3
Lowest	38	8	11	33	20	25	56.3	55.3	55.1	56.0	54.7	56.1	12.1	14.3	12.1	9.8	9.2	11.8

2009 WSU Soft White Winter Wheat Trial Summary

Precipitation Zone <12" – Preliminary Data

1. Soft white winter wheat grain yield across five locations and 58 entries in the <12" precipitation zone averaged 32 bushels/acre, two bushels/acre higher than the 2008 average of 30 bushels/acre. The CV for the average data was 13 and that was lower than the CV of 18 in 2008. The CVs in these experiments are higher than desired, but the trials still provide useful data. There was a lot of variability in fall establishment in the zone due to dry planting conditions and some of that variability carried through the trials. These trials were designed and all except Lind were analyzed as Alpha Lattice designs that overall helped to account for within replication variation and reduced LSD and CV values.

2. Test weight averaged 59.1 lb/bu across locations also slightly higher than last year. Grain protein averaged 12.8% nearly equaling last year's 12.7% value. Protein was higher than desired for soft white wheat, and hopefully will not adversely affect marketing of the 2009 crop.