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

VARIETY NAME (SWH Club in italics)	FARMINGTON	PULLMAN	AVERAGE YIELD	FARMINGTON	PULLMAN	AVERAGE TEST WEIGHT	FARMINGTON	PULLMAN	AVERAGE PROTEIN
	YIELD (BU/A)			TW (LBS/BU)			PROTEIN (%)		
WA008106	95	85	**90**	61.7	62.9	62.3	10.8	11.6	11.2
JD	99	80	**89**	62.3	63.6	**63.0**	11.3	11.7	11.5
WA008112	95	82	**89**	60.2	60.7	60.5	10.9	11.8	11.4
BABE	101	77	**89**	61.2	63.0	62.1	10.7	11.7	11.2
WA008041	94	81	**88**	60.2	60.7	60.5	11.5	11.5	11.5
JD (HSR)	96	80	**88**	61.9	63.8	**62.9**	11.3	12.3	11.8
LOUISE	94	80	**87**	60.8	62.3	61.6	10.9	11.5	11.2
WA008090	100	72	**86**	61.8	62.5	62.2	11.0	11.7	11.4
WA008089	95	77	**86**	61.7	63.2	62.5	10.5	11.3	**10.9**
ALTURAS	90	81	**86**	60.8	61.5	61.2	10.5	11.0	**10.8**
EDEN (HSR)	92	78	85	62.0	63.3	**62.7**	10.8	11.5	11.2
ALPOWA	90	78	84	61.8	62.6	62.2	11.1	11.5	11.3
EDEN	91	77	84	62.0	62.8	62.4	10.9	11.5	11.2
WA008039HF	88	80	84	61.1	63.4	62.3	11.0	12.0	11.5
WAKANZ	91	75	83	60.0	61.7	60.9	11.1	12.0	11.6
WHIT	92	74	83	61.0	61.7	61.4	11.0	11.9	11.5
BZ604-002	84	81	83	61.2	62.5	61.9	10.5	11.8	11.2
NICK	87	78	82	61.1	62.0	61.6	11.3	12.4	11.9
ZAK	87	77	82	60.9	61.4	61.2	10.9	12.0	11.5
WA008104	85	75	80	62.3	62.9	62.6	11.8	12.2	12.0
WA008108	85	72	79	61.7	62.7	62.2	11.7	12.3	12.0
CATALDO	77	73	75	59.8	60.4	60.1	11.1	11.7	11.4
WA008059	77	67	72	60.2	61.4	60.8	12.7	13.0	12.9
WA008058	78	64	71	60.5	62.2	61.4	12.6	13.0	12.8
	STATISTICS			**STATISTICS**			**STATISTICS**		
CV (%)	4	7	6	0.4	0.6	0.5	1.6	2.6	2.2
LSD (0.10)	5	7	5	0.4	0.5	0.3	0.2	0.4	0.2
Average	90	77	83	61.2	62.3	61.7	11.2	11.9	11.5
Highest	101	85	90	62.3	63.8	62.9	12.7	13.0	12.9
Lowest	77	64	71	59.8	60.4	60.1	10.5	11.0	10.8

1. Soft white spring wheat grain yield across two locations and 24 entries in the >20" precipitation zone averaged 83 bu/ac, 22 bu/ac higher than the 2008 average. These trials were analyzed as alpha lattice designs that overall helped to account for within-replication variation and reduced LSD and CV values. The highest value and other values within the LSD range are shown in bold for yield and test weight, but the lowest group is bolded for protein.
2. Club varieties are indicated by italicized print and the (HSR) designates a 20% higher seeding rate for two club varieties.
3. Test weight averaged 61.7 lb/bu across locations and entries, with a range of 60.1 lb/bu to 62.9 lb/bu. Test weights averaged over 1 lb/bu higher than last year. Grain protein averaged 11.5% with a range of 10.8% to 12.9%, 0.4 % higher than last year's average.

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

VARIETY NAME (SWH Club in italics)	YIELD (BU/A)						TEST WEIGHT (LBS/BU)						PROTEIN (%)					
	DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE YIELD	DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE TEST WEIGHT	DAYTON	MAYVIEW	REARDAN	ST. JOHN	WALLA WALLA	AVERAGE PROTEIN
BABE	42	60	63	91	104	**72**	58.2	61.8	62.9	62.2	60.6	61.1	12.7	11.4	12.7	10.7	10.4	11.6
ALTURAS	42	60	66	88	97	**71**	57.2	60.9	62.3	61.0	60.5	60.4	12.3	10.9	11.7	10.2	10.7	**11.2**
LOUISE	42	62	57	95	96	**70**	57.9	62.1	62.1	61.7	60.8	60.9	12.3	10.8	11.9	10.6	10.5	**11.2**
ZAK	45	58	63	88	95	**70**	56.7	60.6	61.6	61.4	60.1	60.1	13.5	12.3	12.8	11.2	11.2	12.2
WA008106	39	55	66	86	101	69	58.4	61.5	62.6	62.0	61.8	61.3	12.0	11.7	11.8	10.5	10.7	**11.3**
WA008089	40	57	56	89	103	69	57.7	62.0	63.1	62.7	60.7	61.2	12.3	11.0	11.6	10.4	10.6	**11.2**
WHIT	39	59	61	91	95	69	57.5	60.8	62.1	61.2	60.2	60.4	13.0	11.9	12.2	10.8	10.8	11.7
BZ604-002	44	54	61	92	95	69	59.1	62.0	62.2	62.2	61.8	61.5	13.3	12.1	12.6	10.7	11.0	11.9
JD (HSR)	43	55	58	89	98	69	59.5	62.5	63.1	63.4	62.2	**62.1**	13.2	11.6	12.9	11.3	11.4	12.1
WA008090	41	60	55	94	94	69	58.2	62.1	62.2	62.2	61.0	61.1	12.5	11.6	12.7	10.9	10.6	11.7
WAKANZ	48	57	50	88	99	68	56.5	60.4	60.5	61.5	59.4	59.7	12.7	11.9	13.1	11.1	10.9	11.9
WA008039HF	36	56	59	88	102	68	58.5	61.7	62.6	62.4	61.1	61.3	12.7	11.3	12.2	11.1	10.7	11.6
WA008112	43	60	53	89	92	67	54.9	60.3	61.3	60.8	58.3	59.1	12.5	11.2	12.1	10.7	10.8	11.5
JD	42	57	59	85	92	67	59.4	62.4	63.2	63.0	61.9	**62.0**	13.0	12.2	12.9	11.1	11.4	12.1
NICK	46	56	50	82	96	66	59.0	61.4	61.8	61.4	60.5	60.8	13.2	12.4	13.2	11.4	11.3	12.3
EDEN (HSR)	43	50	52	86	95	65	59.7	62.6	63.1	62.5	61.7	**61.9**	12.2	11.7	12.0	10.2	10.6	**11.3**
ALPOWA	34	55	54	83	99	65	57.6	62.2	61.9	62.3	60.9	61.0	12.5	11.6	12.8	10.9	10.6	11.7
EDEN	40	56	44	84	97	64	59.5	62.2	62.6	62.7	61.8	61.8	12.1	11.5	12.3	10.4	10.6	11.4
WA008104	34	51	58	84	92	64	58.6	62.5	63.3	62.8	61.3	61.7	12.9	12.4	12.7	11.5	11.1	12.1
WA008041	35	53	44	87	96	63	56.3	60.1	60.8	60.7	58.7	59.3	12.8	12.5	12.9	11.2	10.9	12.1
WA008108	39	53	52	78	93	63	59.3	62.2	62.3	62.3	61.0	61.4	13.6	12.8	13.3	11.1	11.2	12.4
CATALDO	35	51	56	76	89	61	57.4	60.5	61.4	60.3	60.2	60.0	13.2	11.6	12.3	11.0	11.2	11.9
WA008059	30	43	50	78	90	58	56.9	61.0	60.9	61.7	60.9	60.3	14.6	13.4	14.4	12.1	12.1	13.3
WA008058	26	46	39	73	89	55	57.1	60.9	60.8	61.8	60.9	60.3	14.5	13.6	14.3	12.3	12.1	13.4
	STATISTICS						STATISTICS						STATISTICS					
CV (%)	8	9	11	4	6	7	0.8	0.5	0.8	0.4	0.9	0.7	1.7	3.0	2.0	2.6	2.0	2.3
LSD (0.10)	4	7	8	5	8	3	0.6	0.4	0.7	0.3	0.7	0.3	0.3	0.5	0.4	0.4	0.3	0.2
Average	39	55	55	86	96	66	58.0	61.5	62.1	61.9	60.8	60.9	12.9	11.9	12.6	11.0	11.0	11.9
Highest	48	62	66	95	104	72	59.7	62.6	63.3	63.4	62.2	62.1	14.6	13.6	14.4	12.3	12.1	13.4
Lowest	26	43	39	73	89	55	54.9	60.1	60.5	60.3	58.3	59.1	12.0	10.8	11.6	10.2	10.4	11.2

1. Soft white spring wheat grain yield across five locations and 24 entries in the 16”- 20” precipitation zone averaged 66 bu/ac, 19 bu/ac higher than the 2008 average. These trials were analyzed as alpha lattice designs that overall helped to account for within replication variation and reduced LSD and CV values. The highest value and other values within the LSD range are shown in bold for yield and test weight, but the lowest group is bolded for protein.
2. Club varieties are indicated by italicized print and the (HSR) designates a 20% higher seeding rate for two club varieties. The HSR entries averaged 1.5 bu/ac higher yield than those varieties seeded at the conventional seeding rate. A larger yield advantage for higher club seeding rate was found in the 12”-16” average data.
3. Test weight averaged 60.9 lb/bu across locations and entries, with a range of 59.1 lb/bu to 62.1 lb/bu. Test weights averaged 1.2 lb/bu higher than last year. Grain protein averaged 11.9% with a range of 11.2% to 13.4%, nearly equal to last year’s average of 11.7%.

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

VARIETY NAME (SWH Club in italics)	YIELD (BU/A) ALMIRA	ENDICOTT	LAMONT	AVERAGE YIELD	TW (LBS/BU) ALMIRA	ENDICOTT	LAMONT	AVERAGE TEST WEIGHT	PROTEIN (%) ALMIRA	ENDICOTT	LAMONT	AVERAGE PROTEIN
WA008089	65	68	52	**62**	60.5	62.3	60.7	**61.2**	11.1	11.3	11.0	**11.2**
BZ604-002	62	67	51	**60**	60.5	61.9	60.4	60.9	11.6	12.5	11.7	11.9
LOUISE	65	64	52	**60**	60.2	61.5	60.2	60.6	11.4	12.0	11.3	11.6
NICK	64	63	53	**60**	60.8	61.3	60.1	60.7	12.0	12.8	11.9	12.2
WA008106	61	67	49	**59**	60.6	61.6	60.7	61.0	11.3	11.8	11.3	11.5
JD (HSR)	60	64	50	58	61.4	62.2	60.6	**61.4**	11.9	12.9	11.9	12.2
WA008090	57	61	55	58	59.9	61.3	60.8	60.7	11.1	12.0	11.0	11.4
WA008112	58	72	43	58	56.7	59.7	58.3	58.2	11.8	11.5	11.1	11.5
ZAK	57	65	51	58	59.1	60.7	59.9	59.9	11.9	12.8	11.9	12.2
ALTURAS	55	74	43	58	59.5	61.2	59.4	60.0	11.4	11.6	10.7	**11.2**
WAKANZ	58	69	46	57	58.5	60.1	59.1	59.2	11.9	12.1	11.9	12.0
EDEN (HSR)	70	58	44	57	60.5	62.1	60.5	61.0	11.2	11.8	11.2	11.4
BABE	63	60	47	57	61.1	60.6	60.5	60.7	11.5	12.2	10.9	11.5
WHIT	65	65	39	56	59.7	60.6	59.2	59.8	11.6	12.1	11.7	11.8
WA008039HF	64	58	45	56	61.3	61.2	60.1	60.9	11.6	12.4	11.4	11.8
WA008041	61	60	46	56	58.0	59.8	58.8	58.9	11.7	12.9	11.8	12.1
CATALDO	53	66	47	55	58.8	60.9	59.1	59.6	11.9	12.2	11.3	11.8
EDEN	65	57	42	54	60.3	62.1	60.5	61.0	11.2	11.9	11.4	11.5
JD	58	59	44	54	60.9	62.1	60.5	**61.2**	11.6	12.7	11.6	12.0
WA008104	61	59	41	53	60.0	62.1	60.9	61.0	11.9	12.6	11.6	12.0
WA008059	55	54	49	53	59.2	59.5	59.1	59.3	12.9	14.3	13.0	13.4
ALPOWA	57	60	40	52	59.8	61.2	60.2	60.4	11.2	12.9	11.2	11.8
WA008108	58	54	41	51	61.3	61.2	60.6	61.0	11.7	12.7	11.8	12.1
WA008058	54	48	48	50	59.7	60.0	59.7	59.8	12.8	14.5	12.8	13.4
	STATISTICS				**STATISTICS**				**STATISTICS**			
CV (%)	8	8	13	9	1.1	0.8	0.7	0.9	2.5	1.8	3.3	2.6
LSD (0.10)	6	7	8	4	0.9	0.7	0.6	0.4	0.4	0.3	0.5	0.2
Average	60	62	47	56	59.9	61.1	60.0	60.4	11.7	12.4	11.6	11.9
Highest	70	74	55	62	61.4	62.3	60.9	61.4	12.9	14.5	13.0	13.4
Lowest	53	48	39	50	56.7	59.5	58.3	58.2	11.1	11.3	10.7	11.2

1. Soft white spring wheat grain yield across three locations and 24 entries in the 12”-16” precipitation zone averaged 56 bu/ac, 10 bu/ac higher than the 2008 average. These trials were analyzed as alpha lattice designs that overall helped to account for within-replication variation and reduced LSD and CV values. The highest value and other values within the LSD range are shown in bold for yield and test weight, but the lowest group is bolded for protein.
2. Club varieties are indicated by italicized print and the (HSR) designates a 20% higher seeding rate for two club varieties. The HSR entries averaged 3.5 bu/ac higher yield than those varieties seeded at the conventional seeding rate. This yield difference due to seeding rate supports the hypothesis that club cultivars tend to tiller less and need higher plant populations to produce to their capability.
3. Test weight averaged 60.4 lb/bu across locations and entries, with a range of 58.2 lb/bu to 61.4 lb/bu. Test weights averaged 0.3 lb/bu higher than last year. Grain protein averaged 11.9% with a range of 11.2% to 13.4%, 0.3% lower than last year’s average.

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

VARIETY NAME (SWH Club in italics)	BICKLETON	CONNELL	HORSE HEAVEN	LIND	AVERAGE YIELD	BICKLETON	CONNELL	HORSE HEAVEN	LIND	AVERAGE TEST WEIGHT	BICKLETON	CONNELL	HORSE HEAVEN	LIND	AVERAGE PROTEIN
	YIELD (BU/A)					TW (LBS/BU)					PROTEIN (%)				
BZ604-002	27	30	15	31	**26**	61.3	62.2	60.6	61.5	61.4	11.8	12.5	12.6	12.3	12.3
WA008090	24	30	17	30	**25**	60.4	62.0	60.9	62.2	61.4	11.6	12.6	12.1	12.3	12.2
ALTURAS	28	30	14	28	**25**	59.4	61.7	60.2	61.3	60.7	11.5	12.6	12.6	12.5	12.3
LOUISE	26	31	14	28	**25**	59.9	61.6	60.1	61.7	60.8	11.7	12.5	13.2	11.8	12.3
JD (HSR)	28	30	13	27	**25**	61.6	62.9	61.2	62.5	**62.1**	12.1	12.7	13.1	12.4	12.6
WA008106	26	31	13	29	**25**	60.7	62.6	60.6	62.1	61.5	11.3	12.3	12.5	12.3	12.1
NICK	27	29	14	27	24	60.3	61.6	60.7	61.1	60.9	12.2	13.7	13.5	13.0	13.1
WA008089	25	29	13	30	24	60.8	62.3	60.4	62.4	61.5	11.0	12.2	12.7	11.7	**11.9**
JD	26	29	14	27	24	60.9	63.0	61.6	62.4	**62.0**	12.0	12.8	12.9	12.5	12.6
ZAK	27	28	14	27	24	61.1	61.7	61.2	60.8	61.2	12.7	13.4	13.3	13.2	13.2
WA008112	27	27	13	28	24	58.2	59.6	59.4	61.0	59.6	12.2	12.8	13.1	12.2	12.6
WHIT	26	26	15	28	24	59.7	61.6	59.7	60.9	60.5	12.0	13.4	13.0	12.2	12.7
WA008104	26	28	15	26	24	60.9	63.4	60.8	62.4	**61.9**	12.4	13.5	13.0	13.1	13.0
EDEN	23	28	17	25	24	61.1	63.0	62.0	62.2	**62.1**	11.3	12.2	12.0	12.0	**11.9**
WA008039HF	25	29	14	26	23	60.8	62.5	59.8	61.9	61.3	12.0	13.4	13.1	13.0	12.9
EDEN (HSR)	24	28	16	26	23	60.5	62.7	61.9	62.1	61.8	11.5	12.5	12.5	11.9	12.1
BABE	25	26	13	27	23	61.3	62.6	60.3	61.7	61.5	12.0	13.4	13.2	12.8	12.9
WAKANZ	25	27	13	25	22	59.3	60.7	59.1	60.4	59.9	12.1	13.7	13.4	13.1	13.1
CATALDO	21	28	13	24	22	58.2	60.3	58.8	59.7	59.3	12.2	13.2	13.3	12.6	12.8
ALPOWA	21	25	14	27	21	61.0	62.8	61.4	61.8	61.8	12.1	13.3	13.1	12.8	12.8
WA008108	21	26	13	24	21	61.5	63.0	61.1	62.3	**62.0**	12.7	14.0	13.7	13.3	13.4
WA008059	21	25	14	24	21	60.6	61.3	61.7	60.4	61.0	13.9	14.2	13.6	13.6	13.8
WA008058	19	24	15	23	20	60.8	61.5	62.1	60.7	61.3	14.1	14.6	13.9	13.6	14.1
WA008041	19	24	13	23	20	60.1	61.1	60.7	60.1	60.5	12.7	13.6	12.9	13.2	13.1
	STATISTICS					STATISTICS					STATISTICS				
CV (%)	14	6	12	6	10	1.0	0.3	1.0	0.5	0.8	3.5	1.5	3.1	1.9	2.6
LSD (0.10)	5	2	2	2	2	0.8	0.3	0.9	0.4	0.3	0.6	0.3	0.6	0.3	0.2
Average	25	28	14	27	23	60.4	62.0	60.7	61.5	61.2	12.1	13.1	13.0	12.6	12.7
Highest	28	31	17	31	26	61.6	63.4	62.1	62.5	62.1	14.1	14.6	13.9	13.6	14.0
Lowest	19	24	13	23	20	58.2	59.6	58.8	59.7	59.3	11.0	12.2	12.0	11.7	11.9

1. Soft white spring wheat grain yield across four locations and 24 entries in the <12" precipitation zone averaged 23 bu/ac, 2 bu/ac lower than the 2008 average. These trials were analyzed as alpha lattice designs that overall helped to account for within-replication variation and reduced LSD and CV values. The highest value and other values within the LSD range are shown in bold for yield and test weight, but the lowest group is bolded for protein.
2. Club varieties are indicated by italicized print and (HSR) designates a 20% higher seeding rate for two club varieties.
3. Test weight averaged 61.2 lb/bu across locations and entries, with a range of 59.3 lb/bu to 62.1 lb/bu. Test weights averaged 1.4 lb/bu higher than last year. Grain protein averaged 12.7% with a range of 11.9% to 14.0%, 0.4% lower than last year's average.