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

VARIETY NAME	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
Hard Red Winter	YIELD (BU/A)						TEST WEIGHT (LBS/BU)						PROTEIN (%)					
BAUERMEISTER	49	12	32	59	29	**36**	59.4	58.8	60.0	61.1	58.8	59.6	12.6	15.5	12.6	11.7	10.1	12.5
WA008068	47	13	29	61	30	**36**	60.5	60.8	61.7	62.2	60.6	61.2	13.5	16.8	14.1	11.2	10.1	13.1
PEREGRINE	39	15	35	56	31	**35**	60.3	60.4	62.5	62.0	60.8	61.2	12.5	15.8	12.1	11.1	9.7	12.2
FINLEY	42	15	34	59	25	**35**	61.7	62.0	62.1	63.3	61.5	62.1	12.4	15.5	13.5	11.2	10.6	12.6
FARNUM	38	13	33	58	30	**34**	58.7	59.6	59.8	60.5	57.5	59.2	13.5	15.8	12.9	11.9	10.5	12.9
WA008095	39	12	24	60	34	**34**	59.1	59.9	60.5	61.5	59.4	60.1	13.1	16.1	13.5	11.7	11.4	13.2
BC002-2	38	16	--	53	28	**34**	61.1	59.6	--	62.0	60.5	60.8	13.4	17.0	--	11.7	11.6	13.4
HATTON	49	12	23	54	26	33	63.2	63.2	61.9	64.0	62.6	**63.0**	12.4	15.5	13.4	11.6	10.3	12.6
ML9W05-2506	40	15	25	57	29	33	61.1	59.5	61.5	62.4	60.9	61.1	12.7	16.1	14.1	11.3	11.0	13.0
ACCIPITER	39	13	23	50	38	33	59.5	58.2	61.2	61.7	60.0	60.1	12.7	16.9	13.3	10.8	10.4	12.8
WA008098	38	12	32	52	28	32	59.5	59.7	60.9	61.0	58.9	60.0	13.3	16.1	13.1	11.8	11.1	13.1
NORWEST 553	40	13	--	43	32	32	61.6	62.2	--	60.6	61.1	61.4	12.7	16.1	--	11.3	11.1	12.8
WA008061	37	13	24	56	28	31	61.2	62.6	60.5	62.5	60.2	61.4	14.0	16.4	14.5	12.2	11.4	13.7
WHETSTONE	35	15	26	55	25	31	60.0	59.6	61.2	62.3	61.4	60.9	12.8	15.6	14.3	11.9	11.3	13.2
ACS 52025	34	15	25	52	27	30	61.8	61.7	61.0	62.1	61.0	61.5	12.4	14.9	13.5	12	10.5	12.7
BOUNDARY	39	13	25	50	25	30	60.1	60.1	60.2	61.0	59.4	60.2	12.6	15.6	13.4	11.3	10.4	12.7
EDDY	37	14	--	50	19	30	61.2	62.1	--	62.3	59.9	61.4	13.0	16.1	--	12.0	12.9	13.5
AGRIPRO PALADIN	38	15	25	51	21	30	61.5	61.8	61.4	62.7	61.5	61.8	13.1	15.5	14.1	11.5	12.8	13.4
NORRIS	28	16	22	56	26	30	61.4	61.3	61.8	62.7	61.5	61.7	13.0	14.9	13.9	11.2	10.8	12.8
IDO683	29	14	24	54	24	29	62.7	63.6	62.9	63.9	62.1	**63.0**	13.4	15.7	14.4	11.8	11.2	13.3
ESPERIA	46	15	13	51	19	29	60.2	58.8	60.0	60.6	59.9	59.9	13.0	15.9	15.3	11.1	12.7	13.6
WA008022	36	11	22	46	25	28	60.2	61.0	57.4	61.0	58.6	59.6	12.3	14.9	13.0	11.6	10.6	12.5
DECLO	29	10	--	35	26	25	60.7	60.7	--	61.8	61.0	61.1	13.6	16.6	--	12.9	11.4	13.6
Hard White Winter																		
MDM	48	16	32	62	22	**36**	59.6	59.4	61.0	61.8	59.7	60.3	11.9	14.6	12.1	9.8	9.5	11.6
WA008097	43	12	32	63	29	**36**	57.6	58.5	59.6	61.4	59.1	59.2	13.1	15.8	12.4	11.0	10.4	12.5
WA008070	39	12	33	59	28	**34**	60.3	61.8	60.6	62.3	59.8	61.0	12.5	15.8	13.2	10.8	10.7	12.6
UI DARWIN	44	13	30	57	24	**34**	62.6	62.8	62.1	62.9	61.9	**62.5**	12.8	14.6	13.1	12.4	10.5	12.7
WA008096	46	11	30	60	20	33	57.4	58.1	58.1	61.2	57.8	58.5	12.7	15.7	12.7	10.6	10.3	12.4
IDO658	31	14	27	64	29	33	61.3	62.0	62.2	62.9	60.8	61.8	11.7	15.2	12.7	10.5	10.9	12.2
IDO651	39	15	27	53	28	32	58.8	57.7	59.8	61.4	58.9	59.3	13.2	16.1	13.4	11.4	9.6	12.7
NUDAKOTA	38	17	19	56	28	32	60.2	59.1	60.4	61.7	60.7	60.4	12.5	14.8	14.0	10.9	11.6	12.8
PALOMINO	32	15	21	51	24	29	61.3	59.2	60.6	62.2	60.9	60.8	13.1	16.5	13.8	12.6	12.4	13.7
ML9W04-2543W	35	11	13	53	29	28	60.1	59.7	60.5	61.6	60.0	60.4	12.0	15.7	13.5	10.6	10.8	12.5
MOL	24	10	--	34	21	22	60.9	61.5	--	61.6	60.1	61.0	15.5	15.6	--	13.4	15.5	**15.0**
MIETI	21	10	--	--	18	16	60.7	N/A	--	--	58.3	59.5	14.2	14.4	--	--	13.8	14.1
Soft White Common																		
ELTAN (Check)	48	13	32	72	27	**38**	59.0	59.2	59.1	61.6	58.2	59.4	11.7	15.3	11.6	10.2	9.7	11.7
	STATISTICS						STATISTICS						STATISTICS					
CV (%)	14	12	19	13	12	15	0.8	--	1.6	0.9	0.9	1.5	3.2	3.0	3.2	7.2	5.6	4.4
LSD (0.10)	7	2	7	10	4	3	0.7	--	1.3	1.3	0.8	0.6	0.6	0.7	0.6	1.1	0.9	0.3
Average	38	13	26	54	26	32	60.5	60.5	60.8	62.0	60.2	60.8	12.9	15.7	13.4	11.5	11.1	12.9
Highest	49	17	35	72	38	38	63.2	63.6	62.9	64.0	62.6	63.0	15.5	17.0	15.3	13.4	15.5	15.0
Lowest	21	10	13	34	18	22	57.4	57.7	57.4	60.5	57.5	58.5	11.7	14.4	11.6	9.8	9.5	11.6

1. Hard winter wheat (including red and white) grain yield across five locations and 36 entries in the <12" precipitation zone averaged 32 bu/ac, 2 bu/ac higher than the 2008 average of 30 bu/ac. The CV for the average data was 15% 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 60.8 lb/bu across locations and entries and averaged over 60 lb/bu at all locations. This was slightly higher than last year's average of 60.6 lb/bu. Grain protein averaged 12.9% nearly equaling last year's 13% value.