

2010 WSU HARD WINTER WHEAT TRIAL SUMMARY
Precipitation Zone= <12"

VARIETY NAME	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
Hard Red Winter	YIELD (BU/A)					TEST WEIGHT (LBS/BU)					PROTEIN (%)							
WA008119	60	44	52	72	71	60	61.1	60.4	61.0	58.8	57.7	59.8	11.4	10.3	12.2	8.9	12.2	11.0
WA008120	63	40	51	77	66	59	61.6	60.5	60.7	58.7	57.2	59.7	11.7	10.9	12.3	8.7	12.3	11.2
FARNUM	58	37	51	62	59	53	61.3	60.4	61.6	57.8	57.0	59.6	11.6	11.7	12.9	8.8	12.5	11.5
BAUERMEISTER	57	40	43	62	60	52	62.1	61.7	62.0	57.7	57.6	60.2	11.3	11.9	12.6	8.7	11.9	11.3
WA008095	55	33	52	62	51	51	62.0	61.6	62.4	60.8	59.5	61.3	12.3	11.6	12.6	9.1	12.8	11.7
BOUNDARY	58	33	44	56	61	50	61.8	61.0	61.9	59.9	58.3	60.6	12.2	11.7	13	9	12	11.6
PEREGRINE	45	36	44	64	60	50	62.9	62.6	63.5	59.5	59.9	61.7	12.5	10.5	12.8	8.5	11.9	11.2
WA008070	56	36	48	55	51	49	62.7	61.6	62.7	59.3	58.7	61.0	11.2	11.6	11.9	8.3	12.8	11.2
BAU-RT1	54	38	41	59	52	49	61.9	61.8	61.4	58.6	57.6	60.3	11.6	11.7	12.9	9	12.2	11.5
FINLEY	52	36	45	53	54	48	63.2	63.2	63.4	61.3	61.0	62.4	12.3	11.6	12.9	9.4	12.3	11.7
ACCIPITER	50	35	41	55	51	46	62.4	62.3	62.9	59.2	59.9	61.3	12.1	11.1	12.9	8.9	12.4	11.5
HATTON	46	34	41	49	57	45	63.8	63.2	63.7	61.0	62.2	62.8	11.8	11.3	12.5	8.3	11.9	11.2
IDO683	44	33	37	48	54	43	63.8	63.6	64.0	59.8	61.2	62.5	13.7	12.3	14.1	10	13.2	12.7
WA008121	41	32	33	44	51	40	62.7	62.7	62.0	60.0	59.9	61.5	13.0	13.0	14.2	11.1	12.6	12.8
WA008118	33	34	36	45	52	40	62.7	62.7	63.0	60.3	58.3	61.4	13.1	12	14.3	10.8	13.3	12.7
WB-RIMROCK	35	34	31	44	52	39	61.9	61.9	62.0	59.2	59.2	60.8	12.4	11.9	13.6	9.6	12.6	12.0
EDDY	45	30	31	41	47	39	63.2	63.0	62.7	60.6	59.6	61.8	12.8	12.8	15.3	10.8	13.4	13.0
WHETSTONE	39	31	31	47	39	37	62.5	62.7	61.8	62.0	60.2	61.8	13.4	12.3	15.0	10.2	13.4	12.9
AGRIPRO PALADIN	N/A	33	26	43	39	35	N/A	63.1	61.3	61.4	61.3	61.8	N/A	12.2	13.7	11.4	13.7	12.8
NORWEST 553	34	33	35	49	21	34	62.4	61.8	62.1	60.6	58.8	61.1	13.5	11.9	14.4	10.4	14.1	12.9
ESPERIA	N/A	25	N/A	N/A	37	31	N/A	61.6	N/A	N/A	58.3	60.0	N/A	13.7	N/A	N/A	13.6	13.7
DECLO	N/A	30	22	29	35	29	N/A	63.0	61.9	60.2	60.0	61.3	N/A	13.5	13.9	10.9	13.8	13.0
Hard White Winter																		
WA008096	61	38	42	61	55	51	61.5	61.2	60.9	58.3	56.6	59.7	11.0	10.7	12.1	8.5	11.9	10.8
MDM	61	35	43	62	54	51	62.5	61.9	62.0	58.0	57.8	60.4	10.8	11.2	12.1	8.4	11.7	10.8
UI SILVER	51	35	41	53	64	49	63.6	63.2	63.8	60.7	60.8	62.4	11.8	11.1	12.8	9.2	11.3	11.2
WA008097	51	37	43	58	48	47	61.4	60.9	61.2	58.1	57.1	59.7	10.1	10.8	12.3	8.7	12.2	10.8
UICF GRACE	40	34	33	43	48	40	62.2	62.0	62.6	60.1	57.7	60.9	12.5	11.5	13.9	9.8	13.0	12.1
OR2080229H	39	36	32	52	36	39	62.9	63.0	62.8	61.3	59.2	61.8	12.2	11.6	12.8	9.2	12.1	11.6
OR2080156H	37	35	33	43	26	35	61.4	61.3	60.9	59.3	57.1	60.0	13.3	12.1	14.2	10.7	14.1	12.9
Soft White Common																		
ELTAN (Check)	58	42	40	68	55	53	62.0	61.8	61.3	57.4	57.7	60.0	11.1	11.2	12.3	7.9	11.2	10.7
CV (%)	9	10	11	10	17	12	0.6	0.6	0.7	0.7	1.2	0.8	4.4	5.3	2.5	5.2	3.8	4.3
LSD (0.10)	6	5	6	7	11	3	0.8	0.9	0.6	0.6	0.9	0.3	0.7	0.9	0.5	0.7	0.7	0.3
Average	45	35	39	52	50	44	62.2	62.1	62.1	59.6	58.9	61.0	12.2	11.7	13.3	9.6	12.6	11.9
Highest	63	44	52	77	71	60	63.8	63.6	64.0	62.0	62.2	62.8	13.7	13.7	15.3	1.0	14.1	13.7
Lowest	33	25	22	29	21	29	61.1	60.4	60.7	57.4	56.6	59.6	10.1	10.3	11.9	7.9	11.2	10.7

2010 WSU Hard Winter Wheat Trial Summary

Precipitation Zone <12" – Preliminary Data

1. Hard winter wheat (including red and white) grain yield across six locations and 30 entries in the <12" precipitation zone averaged 44 bushels/acre, 12 bushels/acre higher than the 2009 average of 32 bushels/acre. The CV for the average data was 12 and was lower than the CV of 15 in 2009. The CVs in some of these experiments are higher than desired, but the trials still provide useful results. Most of the trials had adequate fall establishment for varieties that are adapted to deep seeding in the dry zone. These trials were designed and analyzed as Alpha Lattice RCB designs that overall helped to account for within replication variation and reduced LSD and CV values.
2. The yields ranged from 35 to 52 bushels/acre across the locations and reflected the precipitation received in the spring. Average yield among entries ranged from 29 to 60 bushels/acre with two WSU numbered lines on top followed by Farnum.
3. Across locations and entries, test weight averaged 61.0 lb/bu and was slightly higher than last year. Grain protein averaged 11.9% and was lower than last year's 12.9% value.