

PROJECT TITLE: Western Regional Hard Red Winter Wheat Evaluation

PROJECT LEADERS: Bob Stougaard and Todd Keener, NWARC, Kalispell, MT
Phil Bruckner/Jim Burg, Plant and Soil Science,
Bozeman, MT.

OBJECTIVE: To evaluate hard red winter wheats for adaptability, yield, quality and disease resistance for Northwestern Montana.

RESULTS: Yields were significantly higher than long term averages due to favorable environmental conditions in both winter and early spring. The warm, dry conditions that were experienced in July and August enhanced maturity and greatly aided harvest of all cereals. The average yield was 111.31 bu/A with the low yield being 73.82 bu/A (Kharkof) and the highest 136.63 bu/A (UT 182064). Test weights were also benefited from the good growing environment during the 1994 season. The mean test weight was 60.11 lb/bu and the high was 62.20 lb/bu (ID 453).

SUMMARY: Although lodging and disease pressure were minimal in this year's nursery, several varieties appear to have excellent yield potential for this region of the state.

FUTURE PLANS: To continue evaluation of the Western Regional Hard Red Winter Wheat nursery for promising winter wheat cultivars adapted for Northwest Montana.

Table 1. Agronomic data from the Western Regional Hard Red Winter Wheat Nursery grown on the Northwestern Agricultural Research Center, Kalispell, MT.
Planted: September 28, 1993 Harvested: August 5, 1994

VARIETY	YIELD BU/A	TEST WT LB/BU	HEADING DATE	HEIGHT INCHES
UT182064 CI12385/UK//CLM/3/CI13837	136.63	59.67	156.33	40.68
WA 7678 CI 14484//BNK/GNS/3/	135.15	62.10	159.33	49.87
SDM211HW SUNDERMAN HW BULK CROSS S	129.20	61.13	155.00	35.43
WA 7679 N823105/N8106201	127.47	61.27	162.33	47.24
ID 390 II-60-157/WSR//II-60-155/	127.32	59.70	159.33	36.75
OR870834 VS74-709/NAC	126.32	59.53	160.33	34.12
SDM212HR SUNDERMAN HR BULK CROSS S	125.02	54.73	158.00	29.53
WA 7771 LIND SEL PENDING	124.87	60.43	162.00	48.56
UT944158 UT1461-185/ID 281	124.03	60.17	161.33	41.34
OR871144 WU=JIN-1/YOMH*7/LOV10	122.60	59.50	158.33	35.43
ID 467 A76327W-2-3T-5P/A7457W-13	122.48	59.30	160.33	36.09
UT956121 MNG/TXGH2875	120.50	55.93	163.00	40.68
UT942149 MNG/ID 281	119.50	59.60	162.67	42.65
IDHWO355 2*MC/NP824/3/LMH66/5	117.73	61.30	159.33	48.56
ID 426 ID 77281 Hard Red	117.50	59.97	159.33	36.09
ID 447 RGR/3/II-60-156/CI14	116.40	60.50	160.33	34.12
XNH 1486 HYBRITECH	113.47	61.27	154.33	40.68
XNH 1605 HYBRITECH XNH 1605 HYBRID	112.97	61.57	155.67	41.34
WA 7757 PI173467/GNS//WSR/3/	112.32	60.73	160.67	45.93
OR 2619 NZT/BEZ1//ALD,F1/4/F	109.80	61.20	158.33	34.78
OR880017 S148/PCHS//SPN	109.68	60.20	157.00	37.40
OR889128 WPM/MOS 83-11-4-8//PEW	109.23	57.60	156.67	33.46
UT 150 ID51022/MANNING	106.47	56.60	159.67	41.34
OR889176 TJB368-251/BUC	106.07	58.03	161.67	32.81
SDM206W SUNDERMAN BLIZZARD R	106.03	58.80	162.00	47.24
ID 443 ID 77089 Hard Red	105.83	61.20	163.67	41.99
WA 7760 KVZ/3/BEZ//MNT/BURT/	103.17	57.90	162.67	45.93
WA 7774 LIND SEL PENDING	103.15	60.63	161.67	45.93
ID 466 II-60-155/CI14106//MC/3/I	102.88	60.97	156.67	48.56
CI 13844 WANSER	100.88	61.77	156.67	49.21
WA 7772 LIND SEL PENDING	100.87	61.30	161.67	45.28
OR850513 RBS/ANZA/3/KVZ/HYS//	100.50	61.50	156.00	32.81
ID 453 BEZ-1//CI13438/BURT/	98.83	62.20	155.67	49.21
OR851911 BNS/LP/3/5*ATR/AGA//	98.45	60.70	153.00	29.53
ID 465 A7480W-9-2/A7528RW, ID7734	98.08	61.67	157.33	47.24
WA 7761 WTN/HTN//WTN, N84091	96.70	61.57	159.33	48.56
ID 445 ID 77294 Hard White	92.98	61.20	158.00	50.52
WA 7773 LIND SEL PENDING	86.08	60.80	157.33	48.56
CI 1442 KHARKOF	73.82	60.13	159.33	53.81
MEAN	111.31	60.11	159.03	41.78
LSD(.05)	23.19	1.17	1.65	2.10