PROJECT TITLE: Western Regional Hard Red Winter Wheat Evaluation

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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
IDHW0355	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

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