PROJECT TITLE:

Advanced Yield Winter Wheat Evaluation

PROJECT LEADERS:

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OBJECTIVE:

To evaluate hard red winter wheat lines for adaptability, yield, quality and disease resistance in western Montana.

RESULTS:

Judith and Neely were the two high yielding varieties in the Advanced Yield Winter Wheat Nursery. Yields were high for the majority of hard red winter wheats with most being above 100 bu/A and the mean being 108.6 bu/A. The average test weight for this nursery was 60.8 lb/bu and the lowest was from Rocky (58.6 lb/bu) which also had the lowest yield. Lodging was light to moderate in seventeen of the thirty-six entries.

SUMMARY:

High yields and test weights were obtained from many Montana experimental lines that were evaluated in the Advanced Yield nursery

FUTURE PLANS:

Continued evaluation of promising hard red winter wheat cultivars adapted for northwestern Montana.

Table 1. Agronomic data from the Advanced Yield Winter Wheat Nursery grown on the Northwestern Agricultural Research Center in Kalispell, MT. Planted: September 20, 1994 Harvested: August 30, 1995

		VARIETY	YIELD BU/A	TEST WT LB/BU	HEIGHT INCHES	HEADING DATE	LODGING INDEX	igues.
MT	8039	JUDITH	133.10	61.07	44.36	156.67	.00	
CI	17860	NEELEY	131.49	61.93	45.28	161.00	10.37	
MT	9422	JDH/ALAB	125.84	60.27	44.23	157.67	7.40	
MT	9446	TX7843680/JDH//TAM12	125.84	60.43	45.93	160.00	.00	
MT	9420	JDH/LCO	122.61	60.50	41.60	156.00	.00	
MT	9426	MT8030/NLY	122.61	61.00	40.81	160.67	.00	
MT	9403	MT7811/MT8030	116.97	60.37	42.78	160.00	3.70	
MTS	92135	LEW/TBR//RDW	116.97	61.47	42.26	157.33	23.90	
S86-15 KESTREL			116.97	60.77	46.85	160.00	30.20	
MT	9330	MT8095/NWN//MT7823/S	115.35	61.57	41.60	160.00	.00	
MTS	92021	LEW/TBR//RDW	115.35	61.57	44.88	159.67	24.07	135
		REDWIN	112.93	61.83	48.29	160.67	.73	
MT	9418	JDH/LCO	112.13		42.52	157.67	.00	
MT		MT7811/TBR	111.32	61.70	45.93	163.33	.00	
MT		TBR/SMN82287//MT7911	110.51		42.52	156.67	5.53	
MT		MT7811/MT8030	109.71	61.67	43.44	157.67	.00	
MT		TBR/MT8030	109.71	60.30	40.81	159.67	.00	
MT		MT7811/TBR	108.90	60.80	43.57	162.33	.00	
MT		BGH/RDW	108.90	62.53	43.04	160.00	.00	
MT		NWN/SMN82118//MT7969	108.09	60.90	39.24	160.33	.00	
MT		MT7811/TBR	108.09	61.70	45.93	160.33	.00	
MT		TX7843680/JDH//TAM12	105.67	60.17	42.91	160.00	.00	
MT		MT7811/MT7869//NWN/M	105.67	61.47	46.06	159.00	1.67	
MT		MT7904/NWN//MT7823/M	104.06	60.97	42.65	161.67	35.93	
MT		MT7811/TBR	103.25		44.75	160.67	.00	
MT		MT7811/TBR	102.45	61.93	44.23	161.33	.00	
		LEW/TBR//RDW	100.83	59.40	42.65	156.33	8.90	
MT		MT693017/MT7829//MT7	99.22	59.67	45.80	160.67	.00	
MT		MT7811/TBR	99.22	61.13	45.28	161.67	.00	
MT		TBR/SMN82287//MT7911	97.61	60.67	43.70	157.67	4.43	
		LEW/TBR//RDW	94.38	59.97	45.14	160.33	52.10	
MT		SMN82112/TBR//NS2630	94.38	59.47	47.90	161.33	27.77	
MT		MT80194/MT7811//MT80	92.77		40.55	161.67	10.57	
MT		BGH/TBR	91.15	61.07	43.96	160.67	12.23	
MT	9435	MT7811/TBR	87.93	61.37	46.46	160.33	2.60	
	17849		87.12	58.57	46.33	156.67	66.67	
	,,		0,112	30.07			30.07	
		MEAN	108.59	60.80	44.01	159.66	9.13	
		LSD (.05)	17.15	1.42	1.71	1.88	18.07	