Project Title: Soft White Winter Wheat Evaluations in Northwestern Montana.

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Objectives: To evaluate the agronomic performance of soft white winter wheat

cultivars in environments and cropping systems representative of

northwestern Montana.

Results:

Adequate soil moisture at planting resulted in good stands. Spring growing conditions favored early wheat growth, resulting in greater plant heights than normal. Plant height averaged 36.4 inches, compared to 30.5 inches in 2006. The favorable growing conditions also delayed heading compared to last year. The average heading date was 158 days compared to 152 days during 2006. However, above average temperature during grain filling hasten crop maturity and reduced test weights. Test weights were below normal, averaging 55 lb/bu and ranged from 51 lb/bu to 60 lb/bu. Nonetheless, the yields were normal and ranged from 106 bu/ac for MTCL0489 to 81 bu/ac for MacVicar. Protein content range from 12.1 to 14.5% with an average of 13%.

Summary:

All the soft white entries yielded well, while the test weight was below average. MTCL0489 and MTCL0550 were the top yielding entries and had the highest test weight.

Future Plans:

It has been decided to discontinue the evaluation of soft white winter wheat cultivars.

Table 1. Agronomic data from the Soft White Winter Wheat Nursery Grown at the Northwestern Agricultural Research Center Kalispell, MT in 2007.

Planted: September 18, 2006 Harvested: July 30, 2007

Cultivar	Yield	Test	Grain	Heading	Plant	Stripe	Protein
		weight	moisture	date	height	rust	
	bu/ac	lb/bu	%	Julian	in	%	%
MTCL0489	106.2	57.8	9.6	153.7	36.4	0.0	12.3
MTCL0550	101.5	57.1	9.2	154.7	35.0	0.0	12.2
Lewjain	100.8	55.4	8.8	163.0	37.8	0.0	12.0
Xerpha	99.4	53.4	8.5	161.3	36.6	0.0	13.7
Hubbard	96.7	56.9	9.4	158.3	41.3	0.3	12.0
Simon	95.0	55.6	8.4	157.0	35.7	0.0	12.6
Neeley (HRW)	94.6	60.0	9.4	157.0	43.6	10.7	12.1
Kmor	94.0	52.4	8.0	160.7	34.8	0.0	13.1
Rod	92.1	52.9	8.2	161.0	33.6	0.0	12.9
Lambert	90.9	54.5	9.0	156.7	37.5	0.0	13.1
Eltan	88.1	54.5	9.2	159.0	36.1	0.0	13.1
MTCL0549	87.5	52.8	9.0	157.0	39.9	0.0	13.9
MAC 1	87.1	56.6	9.2	156.3	38.3	0.0	13.3
Masami	85.6	53.1	8.4	161.3	35.6	0.0	12.7
Finch	81.4	53.4	8.5	162.7	25.7	0.0	14.4
MacVicar	81.3	50.6	7.8	157.0	34.8	0.0	14.5
Mean	92.6	54.8	8.8	158.5	36.4	0.7	13.0
C.V. (%)	5.9			1.1	13.4	329.8	
LSD (0.05)	9.1			2.7	8.2	3.8	

HRW: Hard red winter wheat.