

Project Title: Performance Evaluation of Western Regional Soft White Spring Wheat

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Objectives: To evaluate the agronomic performance of soft white spring wheat cultivars in environments and cropping systems representative of northwestern Montana.

Results:

The average yield was 106.8 bu/ac and ranged from just over 91 bu/ac for WA000986 and WQL7PENWX-2 to 123 bu/ac for IDO669. All the entries had good test weights, ranging from 59.5 to 62.1 lb/bu. Heading dates ranged from 163 to 177 and TKWs ranged from 31.8 to 42.9 g. Plant height averaged 34.6 inches and lodging was minimal.

Summary:

Soft white spring wheats show promise for this area, having high yields and good test weights.

Future Plans:

Periodically evaluate the Western Regional soft spring wheat nursery for adaptation in District 1.

Table 1. Agronomic performance of the Western Regional Soft White Spring Wheat Nursery at the Northwestern Agricultural Research Center Kalispell, MT in 2006.

Planted: April 19, 2006

Harvested: August 10, 2006

Entry	Genotype	Yield	Test weight	Grain moisture	TKW	Heading date	Plant height	Lodging
		bu/ac	lb/bu	%	g	Julian	in	%
14	IDO669	123.1	62.1	11.4	38.1	171.0	35.6	0.0
15	ML063SPC97	122.1	60.8	11.9	38.3	174.7	36.7	0.0
13	IDO668	121.8	61.8	10.8	38.1	169.3	34.1	0.0
2	ALTURAS	115.3	61.2	7.6	35.8	172.0	34.5	0.0
12	IDO644	114.7	59.5	10.7	33.7	165.3	32.7	0.0
10	WA007964	112.1	60.0	11.9	34.7	176.7	38.5	0.0
20	ARS05S303	110.7	57.2	11.6	41.1	175.0	33.2	0.0
5	IDO629	108.5	59.9	11.8	34.6	174.7	35.6	0.0
9	IDO645	106.3	61.7	11.3	35.9	170.0	35.7	0.0
8	IDO642	105.5	60.4	10.7	35.9	164.3	31.1	0.0
1	ALPOWA	104.4	61.7	12.4	40.9	174.0	35.3	0.0
6	IDO630	103.3	59.7	11.7	38.1	174.0	31.6	0.0
16	ML041-27B-2, 1	103.0	59.6	11.3	36.7	172.3	36.2	0.0
7	IDO632	102.2	61.5	11.1	32.9	163.0	28.5	0.0
3	LOUISE	101.6	59.5	12.7	42.9	172.7	37.8	26.7
4	NICK	100.6	60.4	10.1	35.5	167.0	32.3	0.0
17	ML505-4-130-4	99.5	61.9	11.6	41.1	175.0	40.3	0.0
19	WA007987	98.2	60.6	11.0	33.6	175.0	35.0	9.0
18	WA007986	91.6	60.9	10.7	31.8	176.0	34.1	1.0
11	WQL7PENWX-2	91.5	59.7	10.5	33.2	173.7	33.2	0.0
Mean		106.8	60.5	11.3	36.6	171.8	34.6	1.8
C.V. (%)		8.3	1.4	6.2	4.8	0.5	6.4	578.9
LSD (0.05)		14.63	1.41	1.16	2.90	1.36	3.65	NS

TKW: Thousand kernel weight.

NS: Non-significant.