

Project Title: Durum Wheat Variety Performance in Western Montana

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Objectives: To evaluate the performance of durum wheat varieties in environments and cropping systems representative of northwestern Montana

Results:

Yields were greater in 2004 (61 Bu/A) compared to the previous season (41 Bu/A). Most entries yielded more than check entry Mountrail (59 bu/A). Munich, Monroe, Dilse, Maier, Vic, and Kyle produced yields comparable to McNeal. Grain test weight was normal and averaged 60 lb/bu. The average heading date was Julian 170 (June 19). Plant height (35 in) this season was higher than the previous year (27 in), but lodging was not observed.

Summary:

Average yields were 20 bu/A greater than the previous year, and all varieties produced acceptable test weights. While the western region of Montana has the ability to produce acceptable yields, shipping costs continue to be a deterrent to the adoption of this commodity.

Future Plans:

Durum wheat off-station trial will be discontinued in Northwestern Montana.

Table 1. Agronomic data from the Durum Spring Wheat Nursery Grown at the Northwestern Agricultural Research Center, Kalispell, MT.

Planted: April 7, 2004			Harvested: August 12, 2004				
ENTRY	ID	Cultivar	Yield	Test weight	Grain moisture	Heading date	Plant height
			Bu/A	Lb/Bu	%	Julian	in
13	PI574642	MCNEAL	69.8	60.2	9.7	169.7	32.4
4	NDMUNICH	MUNICH	64.0	59.1	9.6	168.7	34.3
2	PI478289	MONROE	62.0	59.7	10.3	166.0	37.7
12	DILSE	DILSE	62.0	59.7	9.5	172.7	33.9
7	D89135	MAIER	61.8	60.2	10.2	170.0	33.1
1	CI 17789	VIC	61.4	59.9	10.2	170.7	38.3
3	CANKYLE	KYLE	61.0	59.9	11.0	174.0	39.5
10	ACAVONLE	AC AVONLEA	59.8	59.9	9.8	168.0	36.9
5	D87130	BEN	59.7	60.2	10.4	169.7	37.3
6	D901313	MOUNTRAIL	59.3	58.5	9.9	171.0	33.1
11	PIERCE	PIERCE	56.5	60.5	9.2	170.7	34.5
9	D901442	LEB SOCK	55.4	59.1	10.2	168.0	33.6
8	D91080	PLAZA	55.1	59.0	9.3	172.0	28.5
Mean			60.6	59.7	9.9	170.1	34.8
C.V. (%)			9.39			0.50	4.84
LSD (0.05)			9.59			1.45	2.84