

**PROJECT TITLE:** 2004 Evaluation of no-till recrop durum wheat variety performance following a pulse crop near Moccasin, MT.

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**OBJECTIVES:**  
Evaluate the agronomic performance of durum wheat varieties in no-till continuous crop environments in central Montana.

**RESULTS:**  
The statewide durum variety trial had 14 entries. The nursery is smaller because of a combination of general relative poor performance of most durum varieties relative to hard spring wheat yields. Further, the durum variety performance in central Montana rarely impact which varieties are specified on production contracts for central Montana growers. The 2005 nursery produce an exception to the long term trend of DHRS McNeal having grain yields greater than the top durum entries (See Table 1). Alzada produced a yield of 30.3 which was significantly greater than the McNeal yield of 26.2. est weights were sub-par averaging 57.5. However, all the test weights of all durum entries exceeded the test weight of McNeal hard red spring wheat.

**SUMMARY**  
Alzada durum grain yield was significantly higher than the yield of McNeal hard red spring wheat. It is unusual for a durum to have a yield significantly greater than McNeal at Moccasin.

**FUTURE PLANS:**  
A single durum variety trial will be established under no-till continuous crop at the CARC.

Table 1 2005 Moccasin no-till recrop spring wheat variety performance following lentils.  
 Exp 9970 Central Agricultural Research Center. Moccasin, Montana.

ID	pedigree	Entry	Head Date d of y	Plant Height in	Grain Yield bu/a	Test Weight lbs/bu	Protein %
YU894-75	ALZADA	13	180	28.6	30.3	57.4	17.2
PI574642	MCNEAL	14	184	30.7	26.2	55.1	18.4
D901442	LEBSOCK	9	182	33.3	25.4	58.3	18.4
D91080	PLAZA	8	184	26.5	24.2	57.0	18.2
ACAVONLE	AC AVONLEA	10	182	35.0	24.0	57.8	18.5
D89135	MAIER	7	184	32.3	23.7	57.1	19.3
D901313	MOUNTRAIL	6	185	30.8	23.0	56.6	20
DILSE	DILSE	12	185	31.8	22.8	57.4	19.6
CANKYLE	KYLE	3	186	39.6	22.7	58.6	18.3
D87130	BEN	5	183	36.1	22.3	58.5	18.5
PIERCE	PIERCE	11	183	33.7	21.7	58.5	18.5
NDMUNICH	Munich	4	182	30.8	21.7	56.6	18.8
CI 17789	VIC	1	183	35.8	20.9	58.5	18.6
PI478289	MONROE	2	179	37.0	20.9	56.8	18.8
	Mean		182.95	33.01	23.55	57.46	18.65
	CV 1		0.3	4.42	9.8	0.51	
	LSD (0.05)		0.92	2.45	3.87	0.49	

Seeded 12-Apr-05 No-till recrop following lentils  
 harvested: 24-Aug-05  
 Fertilizer: 10-10-10-5 w/se 60 N as urea topdressed.