

PROJECT TITLE: 2003 Spring oat variety grain yield evaluations.

PROJECT LEADER: D. M. Wichman, Agronomist, Moccasin, MT

PROJECT PERSONNEL: T. Blake, Barley Breeder, Bozeman, MT
P.F. Hensleigh, Barley Research Assoc., Bozeman, MT
J. Vavrovsky, Research Specialist, Moccasin, MT

OBJECTIVES:

Evaluate the agronomic performance of oat varieties and development lines in crop-fallow environment in central Montana.

RESULTS:

Cool wet growing conditions in April delayed emergence and development of spring seeded cereals. Dry conditions along with much above average temperatures in June and July contributed to low yield potentials and low test weights. For some cereals tillering was reduced so test weights were not as low as in other instances.

SUMMARY:

Drought conditions contributed to low yields and test weights and above normal grain protein levels.

FUTURE PLANS:

Oat variety evaluations will continue at Moccasin..

Table 1 2003 Spring oat variety evaluations.
Exp0407 Central Agricultural Research Center, Moccasin Montana.

ID	Pedigree	Trt	Head	Yield	Test Wt	Protein	Protein
			Date				
				lbs/a	lbs/bu	%	lbs/a
OT373	CDC Dancer	11	188	940	29.47	14.3	135
95A10854	(95Ab10854) 84Ab835/Monik	13	191	865	30.03	13.3	115
CI483126	Monida	2	189	852	28.23	14.7	125
ABSP14-6	83Ab3119/Monida	15	190	831	29.9	12.0	100
90Ab1322	Maverick	8	190	829	27.47	14.4	120
PI537436	Ajay	4	190	801	29.4	15.5	124
PI583735	Celsia	5	192	784	29.17	14.0	110
ABSP 9-2	Monico	9	189	769	29.6	12.5	96
81Ab5792	Rio Grande	3	190	760	29.13	12.3	94
ND930122	Killdeer	6	189	756	30.3	15.2	115
OT351	CDC Pacer	7	190	747	28.27	13.4	100
ABSP19-9	83Ab3083/Monida	10	189	740	30.9	13.2	97
87AB5632	Monida/75Ab861	12	191	718	30.23	13.2	94
CI 9252	Otana	1	189	688	28.97	14.0	97
95AB5543	83Ab3119/86Ab1867A	14	192	609	30.1	13.5	82
98AB6646	IAH61-3-3/90Ab1322	16	191	544	30.93	12.3	67
OVERALL MEAN			189.9	764.5	29.51		
CV (S/MEAN) %			1.139	27.01	4.788		
LSD(0.05 by t)			3.606	344.4	2.356		
Seed Date:	21-May-03						
Fertilizer:	10-10-10-5 w/seed		45 N topdress urea.				
Harvest Date:	01-Aug-03						