

PROJECT TITLE: Evaluation of food and specialty oil safflower varieties under dryland recrop conditions at Moccasin.

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PROJECT PERSONNEL: J.W. Bergman, Safflower Breeder, Sidney
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OBJECTIVES:
To evaluate the performance of safflower varieties and test lines under recrop environments at Moccasin.

RESULTS & SUMMARY:
The 1996 variety trial was planted recrop no-till on winter wheat residue. A cool spring and dry summer contributed to low yields. Yields ranged from 571 to 332 lbs/a with Finch producing the highest yield. Test weights averaged 38.4 lbs/bu. Data for the 1996 variety trial are presented in Table 1. A Geraldine nursery was not seeded because of wet conditions preventing timely seeding.

FUTURE PLANS:
Future plans have not been determined at this time.

Table 1 1996 Montana Dryland Safflower Variety Trial
Exp. 7707 Central Agricultural Research Center, Moccasin, MT.

Variety	Pedigree	Seed Yield	Plant Ht.	Test Wt.
		lbs/bu	"	lbs/a
FINCH	1994 FS 94/20	571	18	42.2
MONT2000	MT Cert. #911-906	528	16	39.9
S-317	'95' California	524	18	37.9
90B 6011	94 MTDSVT #115	481	18	38.0
91B 6342	94 DOL3 #111	468	16	40.0
STIRLING	95 MTDSVT #317	456	17	39.9
91B 1747	94 DLI1 #117	453	18	39.0
MORLIN	MT Cert. #921-1631	435	16	38.1
91B 1147	94 DLI3 #110	430	17	37.6
94B 6194	95 DOL2 #117	408	17	35.2
91B 1126	95 MTDSVT #104	401	20	39.6
CENTENNL	MT Cert. #901-1925	401	19	38.7
ERLIN	MT Cert. #951-900	397	17	38.5
91B 1130	94 DLI3 #108	397	18	37.5
S-541	'95' California	389	19	37.8
91B 6668	94 MTDSVT #117	352	17	37.4
MONT2001	MT Cert. #941-1780	351	17	38.2
HI-PRO	94 DLI4 #126	332	16	36.7
EXPERIMENTAL MEANS		431.84		38.4
F TEST FOR VAR. df=34		1.51		
C.V. 1: (S/MEAN)*100		21.11		
LSD (0.05)		151.30		

Planted: 5-10-1996 no-till.

Previous Crop: Winter wheat.

Fertilizer: 50# 18-46-0 w/seed, 45 units N as Urea broadcast.

Harvested: 10-8-1996

Growing Season Precipitation (April-July): 5.66".

A cool spring and dry summer contributed to low yields.