

PROJECT TITLE: Offstation Spring Wheat Variety Trials

YEAR/PROJECT: 1989/756 Small Grains Production

PROJECT PERSONNEL: Leader - Vern R. Stewart, Todd K. Keener - Research Specialists, NWARC, Kalispell, MT.

SUMMARY:

Spring wheat yields were very good this year and did not suffer greatly due to late season rains except for minor sprouting. Offstation data was obtained from Ravalli Co., however Lake Co. plots were hailed out.

RESULTS: Ravalli County Offstation Spring Wheat -

Yields for this nursery were better than last year, yet still were not as good as previous years. Thin stands and less than ideal growing conditions were factors contributing to such variation in yields. Test weights were not as low as expected and averaged 58.24 lbs/bu. Table 1.

FUTURE PLANS:

Within the confines of funds available we will continue the offstation spring wheat variety nurseries in one to three locations in western Montana. Varieties to be evaluated will be selected from the Intrastate Nursery and the Western Regional Spring Wheat Nursery.

Table 1. Agronomic data from the offstation spring wheat nursery grown on the Western Agricultural Research Center in Corvallis, MT.

Date planted: April 17, 1989

Harvested: August 17, 1989

CI or State #	VARIETY	YIELD BU/A	TEST WT LB/BU	HEIGHT IN
CI 17904	OWENS 1/	75.49	58.43	29.13
CI 17920	MARSHALL	72.04	58.10	26.51
CI 17430	NEWANA	54.35	60.30a	26.90b
WA 6920	PENAWAWA	52.50	58.63	23.88
CI 17790	LEN	52.23	57.93	27.43
ND 606	AMIDON	50.88	57.90	32.55
CI 17429	LEW	48.60	60.37a	32.81
PI483235	GLENMAN	48.41	57.50	27.03
MT 8402	MT7336/SHORTANA	46.83	59.07	24.41b
CI 17910	ALEX	46.18	58.60	32.02
MT 8182	YDING "S"/PCI "S"-28	43.24	55.63b	27.17
CI 17828	PONDERA	40.54	57.10b	27.43
NDCUT	CUTLESS	37.40	57.77	27.56
ND 582	STOA	37.00	58.90	30.84
C982-324	RAMBO	33.23	59.20	26.51
NK 751	NK 751	32.71	58.03	23.49b
CI 15930	QLAF	28.08	58.17	27.17
CANLANC	LANCER	27.51	57.70	29.92
WPB 906R	WESTBRED 906R	25.80	58.57	24.54b
CI 13596	FORTUNA	25.11	56.80b	28.35

CI or State #	VARIETY	YIELD BU/A	TEST WT LB/BU	HEIGHT IN
	EXPERIMENTAL MEANS	43.91	58.24	27.78
	F TEST FOR REPS.	1.63	3.61	8.53
	F TEST FOR VAR. 2/	1.17	10.65**	2.95**
	C.V. 2: (S OF MEAN/MEAN)*100	29.31	.58	5.76
	LSD (0.05)	36.84	.96	4.58

- 1/ Check variety (Owens) 2/ F value for variety comparison
 ** Indicates statistical significance at the .01 probability level
 a/ Values significantly greater than the check at the .01 level
 b/ Values significantly less than the check at the .01 level