

PROJECT TITLE: Offstation Spring Barley Variety Evaluations

YEAR/PROJECT: 1989/756

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

SUMMARY:

Only one offstation spring barley nursery was harvested this year ( Ravalli Co., Corvallis, MT ) with the other being destroyed by hail.

RESULTS:

Ravalli Co. Offstation -

Yields and test weights were good for this location with some shattering contributing to yield loss. Yields ranged from 105 to 59 bushel per acre and test weights averaged 48.3 lbs/bushel. Height was a little less than previous years and percent plump was average for the location. Moravian 3 barley had the lowest percent plump at 84.6%. Table 3.

FUTURE PLANS:

Spring barley continues to be an important crop in western Montana. The offstation varieties to be tested will be selected from the Intrastate Nursery and the early generation material.

Table 1. Agronomic data from the offstation spring barley nursery grown at the Western Research Center, Corvallis, MT in 1989 ( Ravalli Co. )

Planted : April 17, 1989      Harvested: August 17, 1989

VARIETY	YIELD BU/A	TEST WT LB/BU	HEIGHT IN	% PLUMP
CI 15514 Hector	105.06	50.40	25.46	96.00
PI 49476 Samson	103.54	46.63b	23.36	95.80
CI 15857 Clark	98.54	49.33b	24.28	95.40
BA 1202 Busch Agr 1202	90.07	49.50b	24.67	94.50
CI 10083 INGRID 1/	89.02	50.93	21.78	97.00
MT140523 Hector/Klages	81.94	49.73	22.57	92.40
PI483127 Russell	81.14	47.63b	21.78	90.00
PI491534 Gallatin	77.61	50.23	22.31	95.10
CI 15687 Kimberly	76.64	48.00b	23.62	94.20
CO 3 Moravian 3	76.26	49.67	20.87	84.60
CI 15856 Lewis	74.38	49.90	22.31	95.60
MT 81616 TR440/Clark	73.75	48.37b	21.39	97.00
CI 15773 Morex	69.99	47.10b	27.17	96.20
SK 76333 Harrington	67.42	47.80b	21.78	93.80
CI 15478 Klages	65.71	47.47b	22.70	93.50
MT 81161 Lewis//Kgs/Smt	65.34	47.33b	21.65	93.40
CI 15229 Steptoe	65.22	45.37b	20.47	96.40
VD 3 MENUET	63.92	48.07b	20.21	92.50
WPB 999 Winchester	60.10	46.17b	17.06	95.70
BA 2601 Busch Agr Res 2601	59.38	46.37b	21.00	93.00

VARIETY	YIELD BU/A	TEST WT LB/BU	HEIGHT IN	% PLUMP
EXPERIMENTAL MEANS	77.25	48.30	22.32	.00
F TEST FOR VAR. /2	1.56	12.39**	1.60	.00
C.V. 2: (S OF MEAN/MEAN)*100	14.32	.93	7.58	.00
LSD (0.05)	31.68	1.29	4.84	.00

1/ Check variety ( Ingrid )

2/ F value for variety comparison

\*\* Indicates statistical significance at the .01 level of probability

b/ Values significantly less than the check