

PROJECT TITLE: Evaluation of spring barley varieties off-station at Bridger MT.

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PROJECT PERSONNEL: Bridger Plant Materials Center personnel, Darrell Krum, Carbon Co. Extension Agent

PROJECT LOCATION: Bridger Plant Materials Center, Bridger, MT

OBJECTIVES: To evaluate irrigated spring barley varieties under various environments in south-central Montana.

RESULTS: Table 1 gives the results of this study. Baronesse (92 bu/ac) was the highest yielding cultivar in the trial, although only significantly higher than half of the nursery. Test weights were lower than normal with Stark (51.6 lb/bu) having the highest test weight. The nursery also was shorter than normal, with MT 886610 (31 in.) the tallest, and BA 1215 and C14 (20 in.) the shortest.

SUMMARY: Yields were fair, with below average test weight and plant heights, possibly due to insufficient irrigation. The new variety Chinook yielded near the top, with the other malting lines coming in with lower yields.

TABLE 1. 1995 BRIDGER OFF-STATION BARLEY TRIAL

## \*\*\*\*\* VARIETY MEANS \*\*\*\*\*

VARIETY	YIELD BU/AC	TESTWT LB/BU	PLANTHT INCHES
BARONESSE	92.12	49.70	26.00
CHINOOK	85.73	50.00	28.00
H3860224	84.50	46.50	27.00
MT 886610	84.39	50.00	31.00
STARK	80.16	51.60	27.00
BA1215	80.15	49.00	20.00
GALENA	78.95	48.30	22.00
BA1202	78.83	46.60	25.00
MT 890008	78.73	46.30	24.00
H1851195	78.61	49.00	23.00
C22	76.21	47.10	21.00
C14	74.32	50.40	20.00
MT 889106	74.09	51.30	26.00
IDAGOLD	73.54	45.40	21.00
HARRINGTON	73.21	47.00	30.00
MT 890070	72.53	50.30	22.00
BA4311	69.68	47.30	24.00
ROBUST	63.81	49.30	29.00
AZURE	59.82	50.00	28.00
MOREX	58.13	49.20	30.00
	MEAN	75.9	
	LSD 0.05	13.2	