

PROJECT TITLE: The advanced evaluation of spring emmer accessions under consideration for possible cultivar release.

PROJECT LEADER: G.F. Stallknecht

PROJECT PERSONNEL: K.M. Gilbertson, SARC; D.M. Wesenberg, and H. Bockelman USDA/ARS Small Grain Germplasm Center, Aberdeen, ID.

OBJECTIVES: To continue the evaluation of a selected line for possible cultivar release.

RESULTS: The yields of the emmer selections were significantly less than either barley or oat comparison crops (Lewis and Otana respectively). The results are typical when growing season moisture conditions are well above normal as in 1995. The Lewis barley yielded 96 bu/acre well above the average of 45-55 bu/acre norm. In normal rainfall years the emmer will yield equal to spring oats, barley, and in below normal moisture years, will out yield both oats and barley.

SUMMARY: Five years of data will be evaluated for publication in popular press.

TABLE 1. 1995 DRYLAND SPRING EMMER VARIETY TRIAL

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

VARIETY	YIELD LB/AC	TESTWT LB/BU	PLANTHT INCHES	HEAD DATE	LODG <sup>1</sup>
LEWIS BARLEY	4631.73	51.70	35.50	175.00	SLL
OTANA OAT	3983.54	35.50	43.75	182.00	
NEWANA SP/WHEAT	3355.46	57.60	34.25	177.50	
BOWMAN EMMER	3262.04	37.10	44.75	183.00	L
BLACK CHAFF EMMER	3183.45	29.50	27.75	170.00	
CENEX EMMER	3173.94	36.60	45.75	185.00	SL
PI 148 EMMER	3135.78	32.00	27.75	171.00	
WHITE CHAFF EMMER	3126.39	32.40	28.00	171.00	
COMMON EMMER	2991.04	35.30	45.00	185.00	L
	MEAN	3427.0	36.9	177.7	
	LSD 0.05	431.0	1.2	1.7	

- <sup>1</sup> SLL= SLIGHTLY LODGED  
L= LODGED  
SL= SEVERELY LODGED