

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

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

RESULTS: Results this year were disappointing, as PI 148 Emmer (1785 Lb/A) was significantly lower yielding than any other cultivar in the trial. PI 148 appeared to have lower stands than other plots, so seed is being evaluated for germination and viability.

SUMMARY: In previous years PI 148 has outyielded oats and barley in dry to normal years and appears to have good yield potential and feeding values.

FUTURE PLANS: We will evaluate PI 148's seed for germination and viability and continue this trial to determine whether to release this cultivar.

TABLE 1. 1993 DRYLAND EMMER - SPRING GRAIN COMPARISON TRIAL, SARC, HUNTLEY, MT.

	VARIETY	YIELD LB/AC	TESTWT LB/BU	PLANTHT INCHES	HEAD DATE
5	NEWANA SP/WH	2784.18	61.43	26.00	162.50
4	LEWIS BARLEY	2642.53	48.55	24.00	162.00
3	OTANA OATS	2535.05	35.50	30.75	164.50
2	BOWMAN EMMER	2504.40	39.50	31.50	170.00
6	KAMUT	2120.69	57.50	35.25	163.00
1	* PI 148 EMMER	1785.64	34.23	19.75	158.00

***** STATISTICAL TABLE *****

EXPERIMENTAL MEANS	2395.42	46.12	27.88	163.33
TOTAL OBSERVATIONS	24.00	24.00	24.00	12.00
NO. OF REPLICATIONS	4.00	4.00	4.00	2.00
NO. OF VARIETIES	6.00	6.00	6.00	6.00
REP. MEAN SQUARE	*****	.48	7.49	.00
VAR. MEAN SQUARE	*****	534.20	128.27	30.73
ERROR MEAN SQUARE	*****	1.13	4.59	.20
ERROR DEGREES OF FREEDOM	15.00	15.00	15.00	5.00
F TEST FOR REPS.	7.73	.42	1.63	.00
F TEST FOR VAR.	5.66	474.85	27.97	153.67
STANDARD ERROR	312.45	1.06	2.14	.45
STANDARD ERROR OF THE MEAN	156.23	.53	1.07	.32
C.V. 1: (S/MEAN)*100	13.04	2.30	7.68	.27
C.V. 2: (S OF MEAN/MEAN)*100	6.52	1.15	3.84	.19
LSD (0.05)	470.92	1.60	3.23	1.15

93SPEMER.EMD
93SPEMER.STT

DATE PLANTED: 4/05/93
DATE HARVESTED: 8/13/93
* HARVESTED 8/06/93