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81/R/B/3 Seed Treatment and Rhynchosporium - W. Barley

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81/R/B/3

WINTER BARLEY

SEED TREATMENT AND RHYNCHOSPORIUM

Object: To study the effects of fungicidal seed treatment on the incidence of Rhynchosporium and on the yield of w. barley - Sawyers II.

Sponsor: G.L. Bateman.

Design: 4 randomised blocks of 4 plots.

Whole plot dimensions: 2.13 x 9.14.

Treatments: All combinations of:-

1. SEED INF Seed infection with Rhynchosporium:

NONE
INFECTED

2. SEEDRESS Fungicidal seed dressing:

NONE None
PMA+EMC Phenyl mercury acetate at 25 mg of mercury plus ethyl
 mercury chloride at 2.5 mg of mercury per kg of seed

NOTE: Plot sides were separated by 2.13 m and plot ends by 9.14 m sown to w. oats.

Basal applications: Manures: (0:20:20) at 310 kg, combine drilled. 'Nitro-Chalk' at 390 kg. Weedkillers: Mecoprop with bromoxynil and ioxynil (as 'Brittox' at 3.7 l) in 250 l.

Seed: Maris Otter, sown at 160 kg.

Cultivations, etc.: - Heavy spring-tine cultivated: 13 Oct, 1980. Heavy spring-tine cultivated, spring-tine cultivated, seed sown: 14 Oct. N applied: 15 Apr, 1981. Weedkillers applied: 17 Apr. Combine harvested: 17 Aug. Previous crops: W. wheat 1979, potatoes 1980.

NOTE: Leaf diseases were assessed at monthly intervals between April and July.

81/R/B/3

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

SEEDRESS	NONE	PMA+EMC	MEAN
SEED INF			
NONE	5.17	5.16	5.16
INFECTED	5.28	5.20	5.24
MEAN	5.23	5.18	5.20

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	SEED INF	SEEDRESS	SEED INF SEEDRESS
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SED	0.093	0.093	0.131

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	9	0.186	3.6
GRAIN MEAN DM%	87.3		
SUB PLOT AREA HARVESTED	0.00195		