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Yields of the Field Experiments 1975

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75/ R/WW/3 - Seed Dressings & Septoria - Winter Wheat

Rothamsted Research

Rothamsted Research (1976) 75/ R/WW/3 - *Seed Dressings & Septoria - Winter Wheat* ; Yields Of The Field Experiments 1975, pp 291 - 292 - DOI: <https://doi.org/10.23637/ERADOC-1-141>

75/R/WW/3

WINTER WHEAT

SEED DRESSINGS AND SEPTORIA

Object: To study the importance and efficiency of organo-mercury and non-mercury seed dressings against certain pathogens, particularly Septoria seedling blight. Also to study the importance of seedling infections in the epidemiology of the disease - Pastures.

Sponsor: G.L. Bateman.

Design: 2 blocks of 15 plots.

Whole plot dimensions: 2.41 x 11.6.

Treatments: Seed dressings, to seed infected with Septoria (per kg seed):

	SEEDRESS
None (3 plots per block)	0
Phenyl mercury acetate at 1 mg Hg) (2 plots	PMA 1
Phenyl mercury acetate at 5 mg Hg) each per	PMA 5
Phenyl mercury acetate at 25 mg Hg) block)	PMA 25
Carboxin at 4.5 g (a.i.)	CARBOXIN
Guazatine at 0.8 g (a.i.)	GUAZATIN
Guazatine at 0.6 g + maneb at 0.6 g (a.i.)	GUAZ/MAN
Maneb at 3.2 g (a.i.)	MANEB
Quinacetol sulphate at 0.27 g + maneb at 0.45 g (a.i.)	QUIN/MAN
Thiabendazole at 2.4 g (a.i.)	THIABEND

Basal applications: Manures: 'Nitro-Chalk' at 380 kg.

Seed: Chalk, sown at 200 kg.

Cultivations, etc.: - Chisel ploughed twice: 9 Dec, 1974. Rotary harrowed: 19 Dec. Seed sown: 20 Dec. N applied: 21 Apr, 1975. Combine harvested: 18 Aug. Previous crops: Beans 1973, potatoes 1974.

NOTE: Counts were made of seedling emergence. Assessments were made of seedlings infected by Septoria, and on one occasion of leaf infection by Septoria, mildew and eyespot.

75/R/WW/3

GRAIN TONNES/HECTARE

*** TABLES OF MEANS ***

SEEDRESS	
0	7.27
PMA 1	7.40
PMA 5	7.25
PMA 25	7.08
CARBOXIN	7.16
GUAZATIN	7.01
GUAZ/MAN	7.11
MANEB	7.08
QUIN/MAN	7.30
THIABEND	7.36
MEAN	7.22

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

TABLE	SEEDRESS
SED	0.175 (1)
	0.222 (2)
	0.192 (3)
	0.235 (4)
	0.272 (5)

- (1) 0 V ANY OF PMA
- (2) 0 V ANY OF REMAINDER (EXCLUDING 0 AND PMA)
- (3) PMA
- (4) PMA V ANY OF REMAINDER
- (5) ANY OF REMAINDER

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

STRATUM	DF	SE	CV%
BLOCK.WP	19	0.272	3.8

GRAIN MEAN DM% 85.0

PLOT AREA HARVESTED 0.00126