ROTHAMSTED RESEARCH

Yields of the Field Experiments 1982

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82/R/WW/14 - Winter Wheat

Rothamsted Research

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82/R/WW/14

WINTER WHEAT

Object: To study the effects of methods of applying benomyl on the incidence of eyespot and on the yield of w. wheat - Meadow.

Sponsors: G.R. Cayley, D.C. Griffiths, T. Fox.

Design: 4 randomised blocks of 3 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments:

SPRAYERS	Sprayers used to apply benomyl:
NONE	No spray applied
ELECSTAT	Electrostatic sprayer
HYDRAUL	Standard hydraulic sprayer

NOTE: Benomyl was applied at 0.25 kg on 21 Apr, 1982, in 4.6 l for ELECTSTAT, in 490 l for HYDRAUL.

Basal applications: Manures: (0:14:28) at 320 kg. 'Nitro-Chalk' at 670 kg. Weedkillers: Mecoprop, bromoxynil and ioxynil (as 'Brittox' at 3.5 l) with isoproturon at 2.0 kg in 250 l.

Seed: Avalon, sown at 190 kg.

Cultivations, etc.:- Ploughed: 17 Oct, 1981. PK applied, rotary harrowed, seed sown: 26 Oct. Weedkillers applied: 14 Apr, 1982. N applied: 22 Apr. Combine harvested: 11 Aug. Previous crops: W. wheat 1980 and 1981.

NOTES: Eyespot (Pseudocercosporella herpotrichoides) and sharp eyespot (Rhizoctonia cerealis) were assessed and plant samples were analysed for chemical residues.

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GRAIN TONNES/HECTARE

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

SPRAYERS	NONE	ELECSTAT	HYDRAUL	MEAN
	5.85	6.04	6.17	6.02

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

TABLE	SPRAYERS
SED	0.157

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

STRATUM	DF	SE	CV%
BLOCK.WP	6	0.222	3.7

GRAIN MEAN DM% 86.6

PLOT AREA HARVESTED 0.00204

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