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84/R/WW/5 Control of Slugs - W. Wheat

Rothamsted Research

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84/R/WW/5

WINTER WHEAT

CONTROL OF SLUGS

Object: To test seed treatments for the control of slugs in winter wheat - Pastures.

Sponsor: G.C. Scott.

Design: 4 randomised blocks of 9 plots.

Whole plot dimensions: 6.0 x 8.0.

TREATMNT	Treatments to control slugs:
NONE	None
MET 2 SD	Methiocarb seed treatment, 0.2% ai/wt of seed
CAR 1 SD	Cartap seed treatment, 0.1% ai/wt of seed
CAR 2 SD	Cartap seed treatment, 0.2% ai/wt of seed
CAR2+MP	Cartap seed treatment, 0.2% ai/wt of seed + methiocarb pellets drilled with seed
JAP 1 SD	'JAP 1' seed treatment
JAP 2 SD	'JAP 2' seed treatment
MET PDR	Methiocarb pellets drilled with seed
MET PBC	Methiocarb pellets broadcast on 7 Oct, 1983, pre-drilling

Basal applications: Manures: 'Nitro-Chalk' at 750 kg. Weedkillers: Glyphosate at 1.4 kg in 250 l. Chlortoluron at 3.5 kg in 250 l. Mecoprop (as 'CMPP' at 4.2 l) in 250 l. Fungicides: Maneb at 1.6 kg and zineb at 0.17 kg in 250 l with prochloraz at 0.4 kg. Insecticide: Pirimicarb at 0.14 kg in 500 l.

Seed: Norman, sown at 200 kg.

Cultivations, etc.:- Glyphosate applied: 1 Sept, 1983. Heavy spring-tine cultivated twice: 27 Sept. Disced twice: 30 Sept. Rotary harrowed, seed sown: 19 Oct. Chlortoluron applied: 21 Oct. N applied: 9 Apr, 1984. Mecoprop applied: 18 Apr. Fungicides applied: 19 June. Insecticide applied: 28 June. Combine harvested: 22 Aug. Previous crops: Grass/clover ley 1982 and 1983.

NOTE: Slug counts were made before and after drilling. Samples were taken in November for assessment of slug damage to seeds.

84/R/WW/5

GRAIN TONNES/HECTARE

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

TREATMNT	
NONE	12.50
MET 2 SD	13.62
CAR 1 SD	12.24
CAR 2 SD	12.53
CAR2+MP	12.62
JAP 1 SD	12.76
JAP 2 SD	12.61
MET PDR	12.26
MET PBC	12.75
MEAN	12.65

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

TABLE	TREATMNT
SED	0.624

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

STRATUM	DF	SE	CV%
BLOCK.WP	24	0.883	7.0
GRAIN MEAN DM%	86.4		
PLOT AREA HARVESTED	0.00228		