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81/R/WW/5 Direct Drilling and Slug Control - W. Wheat

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81/R/WW/5

WINTER WHEAT

DIRECT DRILLING AND SLUG CONTROL

Object: To study the effects of a range of materials and methods of application on the control of slugs and on the yield of direct-drilled w. wheat - Pastures.

Sponsors: G.C. Scott, D.C. Griffiths.

Design: 4 randomised blocks of 9 plots.

Whole plot dimensions: 5.63 x 7.62.

Treatments:

TREATMNT	Materials, methods and rates of application:
NONE	None
109 SD	'M&B 10903' seed dressing (0.2 % weight of seed)
329 SD	'SAN 329' seed dressing (0.2 % weight of seed)
CART SD	Cartap seed dressing (0.2 % weight of seed)
METH SD	Methiocarb seed dressing (0.2 % weight of seed)
METH MIX	Methiocarb at 5.5 kg mixed with seed
METH BCE	Methiocarb at 5.5 kg broadcast 15 Oct before drilling
METH BCL	Methiocarb at 5.5 kg broadcast 5 Nov after drilling
META BCE	Metalddehyde at 7.8 kg broadcast 15 Oct before drilling

Basal applications: Manures: 'Nitro-Chalk' at 560 kg. Weedkillers: Dicamba with mecoprop and MCPA (as 'Banlene Plus' at 5.0 l) in 250 l. Isoproturon at 2.1 l and mecoprop at 3.2 l in 250 l. Fungicides: Prochloraz at 0.4 l with maneb at 1.2 kg and zineb at 0.13 kg in 250 l.

Seed: Flanders, sown at 200 kg.

Cultivations, etc.: - 'Banlene Plus' applied: 13 Oct, 1980. Disc harrowed: 24 Oct. Seed sown: 1 Nov. N applied: 14 Apr, 1981. Isoproturon and mecoprop applied: 22 Apr. Fungicides applied: 19 June. Combine harvested: 26 Aug. Previous crops: Clover 1979 and 1980.

NOTE: Slugs were counted three times, and plants were assessed for slug damage twice between late October and early January.

81/R/WW/5

GRAIN TONNES/HECTARE

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

TREATMNT	
NONE	8.02
109 SD	7.79
329 SD	7.88
CART SD	7.68
METH SD	8.20
METH MIX	8.05
METH BCE	7.80
METH BCL	7.89
META BCE	8.07
MEAN	7.93

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

TABLE	TREATMNT
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SED	0.225

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

STRATUM	DF	SE	CV%
BLOCK.WP	24	0.318	4.0
GRAIN MEAN DM%	82.9		
PLOT AREA HARVESTED	0.00213		