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80/R/CS/248 Direct Drilling and Slug Control

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80/R/CS/248

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, C.A. Edwards.

The first year, w. wheat.

Design: 4 randomised blocks of 11 plots.

Whole plot dimensions: 5.33 x 7.62.

Treatments:

TREATMNT	Materials, methods and rates of application:
NONE	None (duplicated)
MB SD	Methiocarb seed dressing (0.2% weight of seed)
SAN 1 SD	'SAN 155' seed dressing (0.1% weight of seed)
SAN 3 SD	'SAN 329' seed dressing (0.1% weight of seed)
MB 1 BCE	Methiocarb at 5.6 kg broadcast 7 Nov before drilling
MB 1 BCL	Methiocarb at 5.6 kg broadcast 19 Nov after drilling
MD CD	Metaldehyde at 7.8 kg combine drilled
MB 1 CD	Methiocarb at 5.6 kg combine drilled
MB 2 CD	Methiocarb at 11.2 kg combine drilled
IOX S	Ioxynil spray (as 'Totril' at 2.8 l) in 450 l before drilling

Basal applications: Manures: 'Nitro-Chalk' at 190 kg and later at 450 kg. Weedkillers: Diquat at 0.59 kg ion in 220 l. Mecoprop at 2.5 l in 220 l. Glyphosate at 2.1 l in 220 l. Isoproturon at 2.9 kg in 250 l. Insecticide: Demeton-s-methyl at 0.24 kg in 250 l.

Seed: Flanders, sown at 180 kg.

Cultivations, etc.: Diquat applied: 2 Oct, 1979. Mecoprop applied: 9 Oct. Glyphosate applied: 20 Oct. Seed sown: 13 Nov. 'Nitro-Chalk' applied at 190 kg: 18 Feb, 1980. 'Nitro-Chalk' applied at 450 kg: 15 Apr. Isoproturon applied: 24 Apr. Insecticide applied: 24 June. Combine harvested: 21 Aug. Previous crops: Clover 1978 and 1979.

NOTE: Slug counts were made before drilling and during the autumn. Plants were counted and scored for slug damage in Dec, Jan and Apr.

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GRAIN TONNES/HECTARE

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

TREATMNT	
NONE	6.82
MB SD	6.93
SAN 1 SD	6.64
SAN 3 SD	6.68
MB 1 BCE	7.28
MB 1 BCL	6.97
MD CD	6.16
MB 1 CD	5.85
MB 2 CD	5.17
IOX S	6.57
MEAN	6.54

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

TABLE	TREATMNT
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SED	0.396 MIN REP
	0.343 MAX-MIN

TREATMNT
 MAX-MIN NONE V ANY OF REMAINDER
 MIN REP ANY OF REMAINDER

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

STRATUM	DF	SE	CV%
BLOCK.WP	31	0.560	8.6

GRAIN MEAN DM% 83.4

PLOT AREA HARVESTED 0.00213