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83/W/G/1 Fluid Drilling and Nematicides - Grass

Rothamsted Research

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83/W/G/1

GRASS

FLUID DRILLING AND NEMATOCIDES

Object: To study the effects of rates of oxamyl incorporated in a fluid gel at sowing on the establishment and yield of ryegrass - Woburn Butt Close.

Sponsor: A.M. Spaul.

Design: 5 randomised blocks of 5 plots.

Whole plot dimensions: 1.22 x 3.05.

Treatments:

OXAMYL	Rates of oxamyl (kg) incorporated in a fluid gel at sowing:
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0.0	
0.2	
0.5	
2.0	
5.0	

Basal applications: Manures: (10:10:15+4.5 Mg) at 750 kg, N at 75 kg as 'Nitro-Chalk'. Weedkillers: Glyphosate at 1.5 kg in 280 l, mecoprop with bromoxynil and ioxynil (as 'Brittox' at 2.5 l) in 280 l.

Seed: RVP Italian ryegrass, sown at 20 kg.

Cultivations, etc.:- Glyphosate applied: 6 Oct, 1982. Ploughed: 2 Nov. Spring-tine cultivated: 15 Mar, 1983. NPK + Mg applied: 13 Apr. Treatments applied, seeds sown: 15 Apr. Hand weeded: 17 June. 'Brittox' applied: 22 June. Cut twice: 1 Aug, 12 Oct. N applied: 1 Aug. Previous crops: Potatoes 1981, w. wheat 1982.

NOTE: Nematodes were assessed in soil samples taken in April before sowing and in October after the second cut.

83/W/G/1

1ST CUT (1/8/83) DRY MATTER TONNES/HECTARE

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

OXAMYL	0.0	0.2	0.5	2.0	5.0	MEAN
	2.33	2.00	1.81	2.29	1.88	2.06

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

TABLE	OXAMYL
-----	-----
SED	0.311

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

STRATUM	DF	SE	CV%
BLOCK.WP	16	0.491	23.8

1ST CUT MEAN DM% 34.3

2ND CUT (12/10/83) DRY MATTER TONNES/HECTARE

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

OXAMYL	0.0	0.2	0.5	2.0	5.0	MEAN
	1.88	1.50	1.72	1.87	1.58	1.71

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

TABLE	OXAMYL
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SED	0.274

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

STRATUM	DF	SE	CV%
BLOCK.WP	16	0.433	25.3

2ND CUT MEAN DM% 16.5

83/W/G/1

TOTAL OF 2 CUTS DRY MATTER TONNES/HECTARE

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

OXAMYL	0.0	0.2	0.5	2.0	5.0	MEAN
	4.21	3.50	3.53	4.15	3.46	3.77

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

TABLE	OXAMYL
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SED	0.421

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

STRATUM	DF	SE	CV%
BLOCK.WP	16	0.665	17.6

TOTAL OF 2 CUTS MEAN DM% 25.4

PLOT AREA HARVESTED 0.00025