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Yields of the Field Experiments 1972

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72/W/CS/101 Grass, Effects of Nematodes - Old Grass

Rothamsted Research

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72/W/CS/101

GRASS, EFFECTS OF NEMATODES

Object: To study the effects of aldicarb and disulfoton on yield of old grass and incidence of insects and nematodes - Woburn Bull Field.

Sponsor: D.L. Trudgill.

The first year, old grass.

Design: 5 blocks of 4 plots.

Whole plot dimensions: 2.74 x 6.40. Area harvested: 0.00059.

Treatments:-

Chemicals (C): None (0), aldicarb, 22 kg in spring (A), disulfoton, 4.5 kg in spring plus 2.2 kg 3 months later (D), aldicarb and disulfoton at the above rates and times (AD).

Basal applications: 630 kg (0:14:28), 500 kg (25:0:16) in spring and 300 kg (25:0:16) after each cut.

Cultivations, etc.: Grass topped, PK and NK applied, chain harrowed: 29 Feb, 1972. Aldicarb and disulfoton applied: 3 Mar. Disulfoton applied: 10 June. Cut twice: 16 June, 11 Aug. NK applied: 27 June, 16 Aug. Previous crop: Permanent grass.

NOTE: Nematode counts were made after each cut.

Standard errors per plot. Dry matter, tonnes/hectare:

1st cut: 0.907 or 14.4% (12 d.f.)

2nd cut: 0.268 or 12.2% (12 d.f.)

Total of 2 cuts: 0.829 or 9.8% (12 d.f.)

72/W/CS/101

TABLES OF MEANS

DRY MATTER: TONNES/HECTARE

1ST CUT

C

O	A	D	A+D	Mean
6.20	6.05	5.77	7.09	6.28

STANDARD ERROR OF DIFFERENCES

C 0.574

2ND CUT

C

O	A	D	A+D	Mean
2.23	2.37	1.93	2.27	2.20

STANDARD ERROR OF DIFFERENCES

C 0.169

TOTAL OF 2 CUTS

C

O	A	D	A+D	Mean
8.43	8.42	7.70	9.36	8.48

STANDARD ERROR OF DIFFERENCES

C 0.524

Mean D.M. %: 1st cut: 21.5
 2nd cut: 21.9
 Total of 2 cuts: 21.7