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Yields of the Field Experiments 1975

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75/ R/CS/162 - Times of Applying Acaricide - Ryegrass

Rothamsted Research

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75/R/CS/162

TIMES OF APPLYING ACARICIDE

Object: To study the effects of applying the acaricide endosulfan, at a range of times, on the incidence of ryegrass mosaic virus and its mite vectors and on the yield of ryegrass - Claycroft

Sponsors: R.W. Gibson, R.T. Plumb.

The first year, ryegrass.

Design: 4 randomised blocks of 18 plots.

Whole plot dimensions: 4.27 x 6.10.

Treatments: All combinations of:-

1. Varieties

Italian, S.22
Perennial, S.24

VARIETY

S 22
S 24

2. Times of applying acaricide:

Never
May (None in 1975)
June (None in 1975)
July (29 July)
August (2 Sept)
September (1 October)
October (30 October)
May-October (29 July - 30 October)
After each cut (One in 1975)

ACA TIME

0
MAY
JUNE
JULY
AUGUST
SEPTEMBER
OCTOBER
MAY/OCT
POST CUT

NOTE: Endosulfan was applied at 0.35 kg in 430 l.

Basal applications: Manures: (0:14:28) at 500 kg, 'Nitro-Chalk' at 300 kg. Weedkiller: Paraquat at 0.56 kg ion in 220 l.

Seed: Perennial ryegrass, S.24 sown at 25 kg
Italian ryegrass, S.22 sown at 25 kg.

Cultivations, etc.: - Paraquat applied: 22 Apr, 1975. Cultivated twice, PK and N applied by cultivator drill, and cultivated: 6 May. Power harrowed: 9 May. Seed sown: 16 May. Topped: 16 July and 21 Aug. Cut: 26 Nov. Previous crops: Wheat 1973 and 1974.

NOTES: (1) Mites (*Abacarus hystrix*) were counted on 2 July, 5 Aug and 18 Nov.
(2) Herbage samples were taken for determination of endosulfan residues.

75/R/CS/162

1ST AND ONLY CUT (26/11/75) DRY MATTER TONNES/HECTARE

*** TABLES OF MEANS ***

VARIETY	S 22	S 24	MEAN
ACA TIME			
O	1.78	2.19	1.98
JULY	2.00	2.61	2.30
AUGUST	1.83	2.44	2.14
SEPTEMBER	1.99	2.55	2.27
OCTOBER	1.72	2.42	2.07
MAY/OCT	1.85	2.50	2.17
POST CUT	2.01	2.22	2.11
MEAN	1.88	2.42	2.15

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

TABLE	ACA TIME	VARIETY	ACA TIME VARIETY
SED	0.152 (1) 0.186 (2)	0.088	0.152 (3) 0.215 (1) 0.264 (2)

- (1) O V ANY OF REMAINDER
- (2) ANY OF REMAINDER
- (3) O

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

STRATUM	DF	SE	CV%
BLOCK.WP	55	0.373	17.6

1ST CUT MEAN DM% 15.1

1ST CUT PLOT AREA HARVESTED 0.00062