

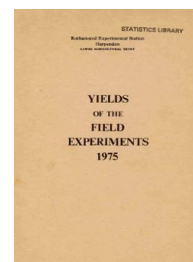
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1975

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1976) 75/ R/CS/162 - *Times of Applying Acaricide - Ryegrass* ; Yields Of The Field Experiments 1975, pp 265 - 266 - DOI: <https://doi.org/10.23637/ERADOC-1-141>

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