

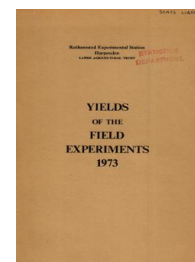
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73/R/CS/109

BENOMYL AND SCLEROTINIA

Object: To study the effects of times of applying benomyl on yield and incidence of Sclerotinia rot of clover - Fosters O & E III.

Sponsor: J.F. Jenkyn.

The first year, red clover.

Design: 3 randomised blocks of 10 plots.

Whole plot dimensions: 4.27 x 4.27. Area harvested: 1st cut: 0.00036.
2nd cut: 0.00039.

Treatments: Times of applying benomyl:	BENOMYL
None (6 plots per block)	None
Two sprays, early Sept and early Oct	Early
Two sprays, early Oct and early Nov	Middle
Two sprays, early Nov and early Dec	Late
Five sprays, early Sept until early Jan	Overall

NOTES: (1) Benomyl applied 12 Sept, 1972, 12 Oct, 3 Nov, 12 Dec, and 5 Jan, 1973, at 0.56 kg in 340 l.
(2) Sclerotinia infected soil was spread on all plots on 7 Sept, 1972.

Basal applications: Manures: (0:14:28) at 540 kg and Epsom salts at 350 kg.
Muriate of potash at 130 kg in spring and after each cut.

Seed: SL23, sown spring 1972 at 31 kg.

Cultivations, etc.: Basal PK and Epsom salts applied: 8 Mar, 1973.
K applied: 3 Apr. Cut twice: 25 June, 3 Sept. K applied:
4 July, 14 Sept. Previous crops: Beans 1970, winter wheat 1971.

Standard errors per plot.

Dry matter: tonnes/hectare: 1st cut:	0.929 or 15.7% (23 d.f.)
2nd cut:	0.336 or 7.6% (23 d.f.)
Total of 2 cuts:	1.028 or 9.9% (23 d.f.)

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TABLES OF MEANS

DRY MATTER: TONNES/HECTARE

BENOMYL					
None	Early	Middle	Late	Overall	Mean
1ST CUT					
5.58	5.57	6.59	6.23	7.37	5.92
2ND CUT					
4.23	4.56	4.82	4.86	4.53	4.42
TOTAL OF 2 CUTS					
9.81	10.13	11.41	11.09	11.90	10.34

STANDARD ERRORS OF DIFFERENCES

BENOMYL	1st cut	2nd cut	Total of 2 cuts
None v any of remainder	0.580	0.209	0.641
Between any of remainder	0.759	0.274	0.840
Mean D.M. %	16.3	22.4	19.3