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# Yields of the Field Experiments 1986

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## 86/R/GC/8 Garden Clover - Red Clover

### Rothamsted Research

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86/R/GC/8

GARDEN CLOVER

Object: To study yields and pathogens of red clover grown continuously - Manor Garden.

Sponsor: J. McEwen.

The 133rd year, red clover.

For previous years see 'Details' 1967 and 1973, and 74-85/R/GC/8.

Design: 2 blocks of 2 plots.

Whole plot dimensions: 1.02 x 1.42.

Treatments:

FUNGCIDE Fungicide to control *Sclerotinia trifoliorum*:

NONE None

BENOMYL Benomyl at 0.60 kg in 800 l on 21 Oct, 1985, 26 Nov and 17 Dec.

NOTE: Additional planned treatments of benomyl in January and February were omitted because of unsuitable weather.

Basal applications: Manures: Chalk at 1.25 t. (0:18:36) at 420 kg. Mg at 50 kg, as Epsom Salts. Nematicide: Aldicarb at 10 kg.

NOTE: Additional K was applied to replace that removed by the crop in 1985. FUNGCIDE NONE required 507 and 427 kg K20 to the first and second blocks respectively, FUNGCIDE BENOMYL 422 and 510 kg K20. This was applied as muriate of potash, one third in spring 1986 and one third after the first and second cuts.

Seed: Hungaropoly, sown at 34 kg in April 1983, gaps resown at 34 kg in April 1984, 85% FUNGCIDE NONE, 8% FUNGCIDE BENOMYL and again in April 1986, 35% FUNGCIDE NONE, 62% FUNGCIDE BENOMYL.

Cultivations, etc.: Chalk, PK and Mg applied: 15 Oct, 1985. K applied 25 Apr, 1986. Aldicarb applied: 28 Apr. Cut and K applied: 25 June, 24 July. Cut: 24 Sept.

86/R/GC/8

1ST CUT (25/6/86) DRY MATTER TONNES/HECTARE

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

FUNGCIDE	NONE	BENOMYL	MEAN
	3.75	3.60	3.68

1ST CUT MEAN DM% 19.5

2ND CUT (24/7/86) DRY MATTER TONNES/HECTARE

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

FUNGCIDE	NONE	BENOMYL	MEAN
	2.61	1.68	2.15

2ND CUT MEAN DM% 20.3

3RD CUT (24/9/86) DRY MATTER TONNES/HECTARE

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

FUNGCIDE	NONE	BENOMYL	MEAN
	2.39	2.10	2.25

3RD CUT MEAN DM% 16.3

TOTAL OF 3 CUTS DRY MATTER TONNES/HECTARE

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

FUNGCIDE	NONE	BENOMYL	MEAN
	8.75	7.39	8.07

TOTAL OF 3 CUTS MEAN DM% 18.7

PLOT AREA HARVESTED 0.00010