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## Yields of the Field Experiments 1989

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### 89/R/GC/8 Garden Clover - Clover

#### Rothamsted Research

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89/R/GC/8

GARDEN CLOVER

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

The 136th year, red clover.

For previous years see 'Details' 1967 and 1973, and 74-88/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 14 Oct, 1988, 6 Dec, 3 Jan, 1989, 26 Jan and 8 March

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

**NOTE:** Additional K was applied to replace that removed by the crop in 1988. **FUNGCIDE** NONE required 882 and 671 kg K<sub>2</sub>O to the first and second blocks respectively, **FUNGCIDE** BENOMYL 601 and 571 kg K<sub>2</sub>O. This was applied as muriate of potash, one third in spring 1989 and one third after the first and second cuts.

**Seed:** Hungaropoly, sown at 34 kg in 1987.

**Cultivations, etc.:**- Chalk, PK and Mg applied: 21 Oct, 1988. K applied: 12 Apr, 1989. Cut and K applied: 1 June, 5 July. Cut: 15 Aug, 25 Sept.

89/R/GC/8

1ST CUT (1/6/89) DRY MATTER TONNES/HECTARE

\*\*\*\*\* Tables of means \*\*\*\*\*

FUNGCIDE	NONE	BENOMYL	Mean
	6.65	6.53	6.59

1ST CUT MEAN DM% 18.1

2ND CUT (5/7/89) DRY MATTER TONNES/HECTARE

\*\*\*\*\* Tables of means \*\*\*\*\*

FUNGCIDE	NONE	BENOMYL	Mean
	1.97	1.92	1.94

2ND CUT MEAN DM% 21.3

3RD CUT (15/8/89) DRY MATTER TONNES/HECTARE

\*\*\*\*\* Tables of means \*\*\*\*\*

FUNGCIDE	NONE	BENOMYL	Mean
	1.51	1.50	1.51

3RD CUT MEAN DM% 23.1

4TH CUT (25/9/89) DRY MATTER TONNES/HECTARE

\*\*\*\*\* Tables of means \*\*\*\*\*

FUNGCIDE	NONE	BENOMYL	Mean
	0.08	0.10	0.09

4TH CUT MEAN DM% 26.1

TOTAL OF 4 CUTS DRY MATTER TONNES/HECTARE

\*\*\*\*\* Tables of means \*\*\*\*\*

FUNGCIDE	NONE	BENOMYL	Mean
	10.21	10.06	10.13

TOTAL OF 4 CUTS MEAN DM% 22.1

PLOT AREA HARVESTED 0.00010