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91/R/GC/8 Garden Clover - Clover

Rothamsted Research

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91/R/GC/8

GARDEN CLOVER

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

The 138th year, red clover.

For previous years see 'Details' 1967 and 1973, and 74-90/R/GC/8.

Design: 2 blocks of 2 plots.

Whole plot dimensions: 1.00 x 1.40.

Treatments:

FUNG RES Residual effects of fungicide to control *Sclerotinia trifoliorum*:

NONE None

BENOMYL Benomyl sprays during previous winters, last applied November 1989.

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 1990. **FUNG RES NONE** required 157 and 129 kg K₂O to the first and second blocks respectively, **FUNG RES BENOMYL** 136 and 124 kg K₂O. This was applied as muriate of potash, one third in spring 1991 and one third after the first and second cuts.

Seed: Hungaropoly, sown at 30 kg in 1990.

Cultivations, etc.:- Chalk, P, K and Mg applied: 23 Oct, 1990. Hand weeded: 13 Mar, 1991. K applied: 11 Apr. Cut, weeded and K applied: 5 June, 25 July. Cut and weeded: 20 Sept.

91/R/GC/8

1ST CUT (5/6/91) DRY MATTER TONNES/HECTARE

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

FUNG RES	NONE	BENOMYL	Mean
	8.31	7.86	8.09

1ST CUT MEAN DM% 14.5

2ND CUT (25/7/91) DRY MATTER TONNES/HECTARE

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

FUNG RES	NONE	BENOMYL	Mean
	6.98	6.12	6.55

2ND CUT MEAN DM% 13.5

3RD CUT (20/9/91) DRY MATTER TONNES/HECTARE

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

FUNG RES	NONE	BENOMYL	Mean
	5.06	4.11	4.58

3RD CUT MEAN DM% 18.7

TOTAL OF 3 CUTS DRY MATTER TONNES/HECTARE

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

FUNG RES	NONE	BENOMYL	Mean
	20.35	18.09	19.22

TOTAL OF 3 CUTS MEAN DM% 15.6

PLOT AREA HARVESTED 0.00010