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# Yields of the Field Experiments 1981

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## 81/R/CS/165 Sclerotinia Control - Red and White Clover

### Rothamsted Research

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81/R/CS/165

SCLEROTINIA CONTROL

Object: To study the effects of two fungicides and paraquat on the incidence of Sclerotinia and on yield of red and white clover - Little Knott I.

Sponsor: J.F. Jenkyn.

The fourth year of treatments, red and white clover.

For previous years see 78-80/R/CS/165.

Design: 2 randomised blocks of 30 plots.

Whole plot dimensions: 2.13 x 3.05.

Treatments: All combinations of:-

1. VARIETY                      Varieties and their resistance to Sclerotinia trifoliorum:  
  
    BLANC WR                  Blanca, white clover, resistant  
    SABED WS                  Sabeda, white clover, susceptible  
    HUNGA RR                  Hungaropoly, red clover, resistant  
    SABTO RS                  Sabtoron, red clover, susceptible
2. TREATMNT                  Chemical sprays and timing (cumulative):  
  
    NONE                      None  
    IPROD E                  Iprodione early period, 26 Sept, 1980 and 4 Nov.  
    IPROD M                  Iprodione mid period, 4 Nov and 27 Nov.  
    IPROD L                  Iprodione late period, 27 Nov and 18 Dec.  
    IPROD A                  Iprodione all periods, 26 Sept, 4 Nov, 27 Nov, 18 Dec, 1980, 26 Jan, 1981  
    BENOMY A                  Benomyl all periods, 26 Sept, 4 Nov, 27 Nov, 18 Dec, 1980, 26 Jan, 1981  
    PARAQ W                  Paraquat, 27 Nov, 1979 and 2 Apr, 1981

plus two extra treatments (cumulative):

EXTRA

- |          |   |
|----------|---|
| SABED PS | Sabeda, sprayed paraquat in spring, 2 Apr, 1981 |
| SABTO PS | Sabtoron, sprayed paraquat in spring, 2 Apr     |

- NOTES: (1) Chemical treatments were applied, in 340 l, as follows:-  
Iprodione at 0.50 kg, benomyl at 0.50 kg (both applied with 'Spreadite', a wetting agent, at 0.25 kg). Paraquat at 0.28 kg ion.
- (2) On 27 Nov one of the replicates of the treatment combinations of HUNGA RR with NONE and IPROD M received paraquat in error and one of the replicates of the treatment combinations of HUNGA RR and SABTO RS with PARAQ W did not receive paraquat by the same error. The omitted treatment was applied on 8 Dec.
- (3) The proportion of weeds to clover was assessed.

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Basal applications: Manures: (0:14:28) at 540 kg. Weedkiller: Propyzamide at 0.7 kg in 340 l.

Cultivations, etc.: - Weedkiller applied: 26 Sept, 1980. PK applied: 4 Dec. Cut: 6 July, 1981.

1ST CUT (6/7/81) DRY MATTER TONNES/HECTARE

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

VARIETY TREATMNT	BLANC WR	SABED WS	HUNGA RR	SABTO RS	MEAN
NONE	3.90	3.62	5.23	5.32	4.52
IPROD E	3.64	3.38	6.18	4.52	4.43
IPROD M	3.73	4.11	5.00	5.59	4.61
IPROD L	3.31	3.45	5.60	4.51	4.22
IPROD A	3.35	3.94	5.35	6.08	4.68
BENOMY A	4.55	4.67	5.32	6.02	5.14
PARQ W	3.60	4.21	5.07	4.54	4.35
MEAN	3.72	3.91	5.39	5.23	4.56

EXTRA	SABED PS	SABTO PS	MEAN
	3.49	3.87	3.68

GRAND MEAN 4.50

\*\*\*\*\* STANDARD ERRORS OF DIFFERENCES OF MEANS \*\*\*\*\*

TABLE	EXTRA	TREATMNT	VARIETY	TREATMNT VARIETY & EXTRA
SED	0.735	0.368	0.278	0.735

\*\*\*\*\* STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION \*\*\*\*\*

STRATUM	DF	SE	CV%
BLOCK.WP	29	0.735	16.3

1ST CUT MEAN DM% 22.2

PLOT AREA HARVESTED 0.00028