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# Yields of the Field Experiments 1980

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## 80/R/CS/165 Sclerotinia Control

### Rothamsted Research

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80/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 third year of treatments, red and white clover.

For previous years see 78-79/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, 28 Sept, 1979 and 24 Oct.  
    IPROD M                    Iprodione mid period, 24 Oct and 29 Nov.  
    IPROD L                    Iprodione late period, 29 Nov and 31 Dec.  
    IPROD A                    Iprodione all periods, 28 Sept, 24 Oct, 29 Nov, 31 Dec, 1979, 29 Jan, 1980  
    BENOMY A                    Benomyl all periods, 28 Sept, 24 Oct, 29 Nov, 31 Dec, 1979, 31 Jan, 1980  
    PARAQ W                    Paraquat, 29 Nov, 1979 and 1 Apr, 1980

plus two extra treatments (cumulative):

EXTRA

- SABED PS                      Sabeda, sprayed paraquat in spring, 1 Apr, 1980  
SABTO PS                      Sabtoron, sprayed paraquat in spring, 1 Apr

NOTE: 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.

Basal applications: Manures: (0:14:28) at 630 kg. Weedkiller: Propyzamide at 0.70 kg in 340 l.

Cultivations, etc.: - Propyzamide applied: 26 Sept, 1979. PK applied: 22 Nov. Cut: 4 June, 1980, 30 July, 11 Sept.

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1ST CUT (4/6/80) DRY MATTER TONNES/HECTARE

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

VARIETY TREATMNT	BLANC WR	SABED WS	HUNGA RR	SABTO RS	MEAN
NONE	2.86	2.67	4.90	3.43	3.47
IPROD E	2.48	1.59	5.25	4.23	3.39
IPROD M	2.67	2.40	5.17	4.03	3.57
IPROD L	2.69	2.25	5.05	3.97	3.49
IPROD A	2.81	2.74	5.13	4.26	3.73
BENOMY A	2.86	2.75	5.25	4.52	3.84
PARQ W	2.44	1.81	4.12	1.56	2.48
MEAN	2.69	2.32	4.98	3.71	3.42
EXTRA	SABED PS 2.00	SABTO PS 3.34	MEAN 2.67		

GRAND MEAN 3.37

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

TABLE	EXTRA	TREATMNT	VARIETY	TREATMNT VARIETY & EXTRA
SED	0.418	0.209	0.158	0.418

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

STRATUM	DF	SE	CV%
BLOCK.WP	29	0.418	12.4
1ST CUT MEAN DM%	18.7		

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2ND CUT (30/7/80) DRY MATTER TONNES/HECTARE

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

VARIETY TREATMNT	BLANC WR	SABED WS	HUNGA RR	SABTO RS	MEAN
NONE	2.44	2.51	4.80	3.84	3.40
IPROD E	2.46	2.80	4.95	3.47	3.42
IPROD M	2.46	2.87	4.88	4.11	3.58
IPROD L	2.68	2.82	4.87	3.76	3.53
IPROD A	2.94	2.67	4.75	3.72	3.52
BENOMY A	3.41	2.86	4.78	5.27	4.08
PARQ W	2.59	2.93	4.74	3.53	3.45
MEAN	2.71	2.78	4.82	3.96	3.57
EXTRA	SABED PS 2.82	SABTO PS 3.64	MEAN 3.23		

GRAND MEAN 3.55

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

TABLE	EXTRA	TREATMNT	VARIETY	TREATMNT VARIETY & EXTRA
-----				
SED	0.325	0.163	0.123	0.325

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

STRATUM	DF	SE	CV%
BLOCK.WP	29	0.325	9.2
2ND CUT MEAN DM%	14.1		

80/R/CS/165  
 3RD CUT (11/9/80) DRY MATTER TONNES/HECTARE

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

VARIETY TREATMNT	BLANC WR	SABED WS	HUNGA RR	SABTO RS	MEAN
NONE	1.91	1.59	1.16	0.93	1.40
IPROD E	1.61	1.19	1.38	0.87	1.26
IPROD M	1.53	1.42	1.41	1.06	1.35
IPROD L	1.38	1.40	1.72	1.04	1.38
IPROD A	1.42	1.60	1.60	1.02	1.41
BENOMY A	1.58	1.47	1.57	1.33	1.49
PARQ W	1.59	1.48	1.80	1.02	1.47
MEAN	1.57	1.45	1.52	1.04	1.40

EXTRA	SABED PS	SABTO PS	MEAN
	1.45	0.98	1.22

GRAND MEAN 1.38

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

TABLE	EXTRA	TREATMNT	VARIETY	TREATMNT VARIETY & EXTRA
SED	0.260	0.130	0.098	0.260

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

STRATUM	DF	SE	CV%
BLOCK.WP	29	0.260	18.8
3RD CUT MEAN DM%	20.5		



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TOTAL OF 3 CUTS DRY MATTER TONNES/HECTARE

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

VARIETY TREATMNT	BLANC WR	SABED WS	HUNGA RR	SABTO RS	MEAN
NONE	7.21	6.78	10.86	8.20	8.26
IPROD E	6.55	5.58	11.59	8.58	8.07
IPROD M	6.65	6.69	11.46	9.20	8.50
IPROD L	6.75	6.47	11.63	8.77	8.41
IPROD A	7.17	7.01	11.49	9.00	8.67
BENOMY A	7.85	7.09	11.60	11.12	9.41
PARQ W	6.62	6.22	10.67	6.11	7.40
MEAN	6.97	6.55	11.33	8.71	8.39
EXTRA	SABED PS 6.27	SABTO PS 7.97	MEAN 7.12		

GRAND MEAN 8.30

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

TABLE	EXTRA	TREATMNT	VARIETY	TREATMNT VARIETY & EXTRA
SED	0.712	0.356	0.269	0.712

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

STRATUM	DF	SE	CV%
BLOCK.WP	29	0.712	8.6

TOTAL OF 3 CUTS MEAN DM% 17.8

PLOT AREA HARVESTED 0.00028