

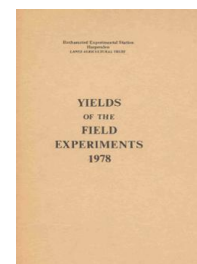
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78/R/CS/165 Sclerotinia Control - Red and White Clover

Rothamsted Research

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78/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 first year of treatments, red and white clover.

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:

NONE	None
IPROD E	Iprodione early period, 26 Sept, 1977 and 18 Oct
IPROD M	Iprodione mid period, 18 Oct, and 29 Nov
IPROD L	Iprodione late period, 29 Nov, and 16 Dec
IPROD A	Iprodione all periods, 26 Sept, 18 Oct, 29 Nov, 16 Dec, 1977 and 15 Feb, 1978
BENOMY A	Benomyl all periods, 26 Sept, 18 Oct, 29 Nov, 16 Dec, 1977 and 15 Feb, 1978
PARAQ W	Paraquat in winter, 29 Nov, 1977

plus two extra treatments:

EXTRA

SABED PS	Sabeda, sprayed paraquat in spring, 20 Mar, 1978
SABTO PS	Sabtoron, sprayed paraquat in spring, 20 Mar, 1978

NOTE: Chemical treatments applied as follows:-

Iprodione at 0.50 kg in 340 l. Benomyl at 0.50 kg in 340 l (both applied with 'Spreadite', a wetting agent, at 0.25 kg). Paraquat at 0.56 kg ion in 340 l.

Basal applications: None.

Cultivations, etc.:- Cut three times: 13 June, 1978, 4 Aug, 27 Sept. Previous crops: 1976 Fallow, 1977 Clover.

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1ST CUT (13/6/78) DRY MATTER TONNES/HECTARE

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

VARIETY TREATMNT	BLANC WR	SABED WS	HUNGA RR	SABTO RS	MEAN
NONE	3.41	3.16	5.26	5.39	4.31
IPROD E	3.85	3.05	6.59	5.23	4.68
IPROD M	3.58	3.13	6.62	5.53	4.71
IPROD L	3.56	3.84	6.00	5.44	4.71
IPROD A	3.86	3.82	6.96	5.75	5.10
BENOMY A	4.86	4.17	7.44	5.86	5.58
PARAQ W	3.30	3.09	6.23	4.83	4.36
MEAN	3.78	3.47	6.44	5.43	4.78

EXTRA	SABED PS	SABTO PS
	2.36	4.60

GRAND MEAN 4.69

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

TABLE	EXTRA	TREATMNT	VARIETY	TREATMNT VARIETY & EXTRA
SED	0.739	0.370	0.279	0.739

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

STRATUM	DF	SE	CV%
BLOCK.WP	29	0.739	15.8

1ST CUT MEAN DM% 16.2

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2ND CUT (4/8/78) DRY MATTER TONNES/HECTARE

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

VARIETY TREATMNT	BLANC WR	SABED WS	HUNGA RR	SABTO RS	MEAN
NONE	2.26	1.93	3.79	4.26	3.06
I PROD E	1.89	1.46	4.07	3.76	2.80
I PROD M	1.88	1.62	4.34	4.15	3.00
I PROD L	1.82	1.96	4.09	4.25	3.03
I PROD A	1.76	1.83	4.36	4.15	3.03
BENOMY A	1.76	1.87	4.02	4.88	3.13
PARAQ W	2.31	1.94	4.83	4.24	3.33
MEAN	1.95	1.80	4.22	4.24	3.05

EXTRA	SABED PS	SABTO PS
	1.86	4.07

GRAND MEAN 3.05

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

TABLE	EXTRA	TREATMNT	VARIETY	TREATMNT VARIETY & EXTRA
SED	0.373	0.187	0.141	0.373

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

STRATUM	DF	SE	CV%
BLOCK.WP	29	0.373	12.3

2ND CUT MEAN DM% 16.1

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3RD CUT (27/9/78) DRY MATTER TONNES/HECTARE

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

VARIETY TREATMNT	BLANC WR	SABED WS	HUNGA RR	SABTO RS	MEAN
NONE	1.57	1.61	1.60	1.77	1.64
IPROD E	1.13	1.68	1.56	1.94	1.58
IPROD M	1.39	1.46	1.95	1.90	1.68
IPROD L	1.59	1.45	1.85	1.61	1.63
IPROD A	2.11	1.81	1.78	1.65	1.83
BENOMY A	1.92	1.48	1.05	2.18	1.66
PARAQ W	1.16	1.49	1.82	1.92	1.60
MEAN	1.55	1.57	1.66	1.85	1.66

EXTRA	SABED PS	SABTO PS
	1.29	1.84

GRAND MEAN 1.65

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

TABLE	EXTRA	TREATMNT	VARIETY	TREATMNT VARIETY & EXTRA
SED	0.228	0.114	0.086	0.228

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

STRATUM	DF	SE	CV%
BLOCK.WP	29	0.228	13.8
3RD CUT MEAN DM%	20.8		

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TOTAL OF 3 CUTS DRY MATER TONNES/HECTARE

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

VARIETY TREATMNT	BLANC WR	SABED WS	HUNGA RR	SABTO RS	MEAN
NONE	7.25	6.70	10.66	11.42	9.01
IPROD E	6.87	6.19	12.23	10.92	9.05
IPROD M	6.85	6.21	12.91	11.58	9.39
IPROD L	6.97	7.26	11.94	11.29	9.37
IPROD A	7.73	7.46	13.10	11.54	9.96
BENOMY A	8.54	7.53	12.52	12.91	10.38
PARAQ W	6.77	6.52	12.89	10.99	9.29
MEAN	7.28	6.84	12.32	11.52	9.49

EXTRA	SABED PS	SABTO PS
	5.51	10.52

GRAND MEAN 9.39

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

TABLE	EXTRA	TREATMNT	VARIETY	TREATMNT VARIETY & EXTRA
SED	0.980	0.490	0.371	0.980

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

STRATUM	DF	SE	CV%
BLOCK.WP	29	0.980	10.4

TOTAL OF 3 CUTS MEAN DM% 17.7

PLOT AREA HARVESTED 0.00028