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

Rothamsted Research

Rothamsted Research (1980) *79/R/CS/165 Sclerotinia Control - Red and White Clover* ; Yields Of The Field Experiments 1979, pp 159 - 163 - DOI: <https://doi.org/10.23637/ERADOC-1-45>

79/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 second year of treatments, red and white clover.

For previous year see 78/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 to 1978 treatments):

NONE	None
IPROD E	Iprodione early period, 6 Oct, 1978 and 30 Oct
IPROD M	Iprodione mid period, 30 Oct and 29 Nov
IPROD L	Iprodione late period, 29 Nov and 8 Jan, 1979
IPROD A	Iprodione all periods, 6 Oct, 30 Oct, 29 Nov, 8 Jan, 5 Feb
BENOMY A	Benomyl all periods, 6 Oct, 30 Oct, 29 Nov, 1978, 8 Jan, 1979 5 Feb
PARAQ W	Paraquat in winter, 29 Nov, 1978

plus two extra treatments (cumulative to 1978 treatments):

EXTRA

SABED PS	Sabeda, sprayed paraquat in spring, 10 Apr, 1979
SABTO PS	Sabtoron, sprayed paraquat in spring, 10 Apr

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 on the first occasion and at 0.28 kg ion in 340 l on the second.

Basal applications: Manures: (0:14:28) at 540 kg.

Cultivations, etc.: - PK applied: 5 Mar, 1979. Cut three times: 13 June, 2 Aug, 18 Sept.

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1ST CUT (13/6/79) DRY MATTER TONNES/HECTARE

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

VARIETY TREATMNT	BLANC WR	SABED WS	HUNGA RR	SABTO RS	MEAN
NONE	3.84	3.20	6.02	5.73	4.70
I PROD E	3.41	3.10	6.48	5.08	4.52
I PROD M	4.30	3.35	6.78	5.33	4.94
I PROD L	3.44	3.02	6.59	5.63	4.67
I PROD A	3.46	3.70	6.31	5.63	4.78
BENOMY A	4.64	4.77	6.69	6.29	5.60
PARAQ W	3.54	3.30	6.11	3.39	4.09
MEAN	3.81	3.49	6.43	5.30	4.75
EXTRA	SABED PS 2.51	SABTO PS 4.28	MEAN 3.40		

GRAND MEAN 4.66

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

TABLE	EXTRA	TREATMNT	VARIETY	TREATMNT VARIETY & EXTRA
SED	0.537	0.268	0.203	0.537

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

STRATUM	DF	SE	CV%
BLOCK.WP	29	0.537	11.5
1ST CUT MEAN DM%	12.1		

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2ND CUT (2/8/79) DRY MATTER TONNES/HECTARE

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

VARIETY TREATMNT	BLANC WR	SABED WS	HUNGA RR	SABTO RS	MEAN
NONE	2.20	2.07	4.28	3.29	2.96
IPROD E	2.13	1.97	4.94	3.27	3.07
IPROD M	2.43	2.11	4.97	3.91	3.36
IPROD L	2.21	2.00	4.51	3.32	3.01
IPROD A	2.57	2.64	4.69	3.45	3.34
BENOMY A	2.52	2.09	4.12	4.40	3.28
PARAQ W	1.79	2.34	4.32	3.03	2.87
MEAN	2.26	2.17	4.55	3.52	3.13

EXTRA	SABED PS	SABTO PS	MEAN
	2.10	3.51	2.81

GRAND MEAN 3.11

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

TABLE	EXTRA	TREATMNT	VARIETY	TREATMNT VARIETY & EXTRA
SED	0.330	0.165	0.125	0.330

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

STRATUM	DF	SE	CV%
BLOCK.WP	29	0.330	10.6
2ND CUT MEAN DM%	24.3		

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3RD CUT (18/9/79) DRY MATTER TONNES/HECTARE

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

VARIETY TREATMNT	BLANC WR	SABED WS	HUNGA RR	SABTO RS	MEAN
NONE	1.74	1.49	1.72	0.89	1.46
IPROD E	0.95	1.28	1.64	0.87	1.18
IPROD M	1.91	1.29	1.74	1.07	1.50
IPROD L	1.04	0.90	1.76	1.00	1.18
IPROD A	1.28	1.51	1.80	0.85	1.36
BENMY A	1.00	1.23	1.76	1.72	1.43
PARAQ W	1.01	1.20	1.72	0.85	1.19
MEAN	1.27	1.27	1.74	1.04	1.33
EXTRA	SABED PS	SABTO PS	MEAN		
	1.47	0.80	1.13		

GRAND MEAN 1.32

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

TABLE	EXTRA	TREATMNT	VARIETY	TREATMNT VARIETY & EXTRA
SED	0.242	0.121	0.091	0.242

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

STRATUM	DF	SE	CV%
BLOCK.WP	29	0.242	18.4

3RD CUT MEAN DM% 23.1

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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	7.78	6.76	12.01	9.91	9.12
IPROD E	6.48	6.34	13.06	9.23	8.78
IPROD M	8.64	6.74	13.50	10.31	9.80
IPROD L	6.68	5.93	12.87	9.95	8.86
IPROD A	7.32	7.85	12.80	9.93	9.47
BENQMY A	8.16	8.09	12.57	12.41	10.31
PARAQ W	6.33	6.83	12.15	7.27	8.15
MEAN	7.34	6.93	12.71	9.86	9.21
EXTRA	SABED PS 6.08	SABTO PS 8.59	MEAN 7.33		

GRAND MEAN 9.09

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

TABLE	EXTRA	TREATMNT	VARIETY	TREATMNT VARIETY & EXTRA
SED	0.694	0.347	0.262	0.694

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

STRATUM	DF	SE	CV%
BLOCK.WP	29	0.694	7.6
TOTAL OF 3 CUTS MEAN DM%	19.8		
PLOT AREA HARVESTED	0.00028		