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80/R/CS/165 Sclerotinia Control

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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

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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
I PROD E	1.61	1.19	1.38	0.87	1.26
I PROD M	1.53	1.42	1.41	1.06	1.35
I PROD L	1.38	1.40	1.72	1.04	1.38
I PROD 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