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75/ R/CS/106 - Chemical Control of Pathogens - Ryegrass

Rothamsted Research

Rothamsted Research (1976) 75/ R/CS/106 - *Chemical Control of Pathogens - Ryegrass* ; Yields Of The Field Experiments 1975, pp 197 - 198 - DOI: <https://doi.org/10.23637/ERADOC-1-141>

75/R/CS/106

CHEMICAL CONTROL OF PATHOGENS

Object: To study the effects of a range of chemicals on the yield and pathogens of ryegrass - Claycroft.

Sponsors: J.F. Jenkyn, R.T. Plumb.

The third year, ryegrass.

For previous years see 73-74/R/CS/106.

Design: 3 randomised blocks of 10 plots, split into 3.

Whole plot dimensions: 4.27 x 16.7.

Treatments: All combinations of:-

Whole plots: 1. Chemicals applied cumulatively 1973 and 1974, none in 1975 (kg a.i.):

None (3 plots per block)	CHEMRES
BAS 3170F, 1.12 kg per cut	O
Benomyl, 1.12 kg per cut	BA
Captafol, 2.24 kg per cut	BE
Dazomet, 400 kg, September 1972 only	CA
Endosulfan, 2.8 l of 'Thiodan', applied frequently	DA
Menazon, 0.7 l of 'Saphi-Col', applied frequently	EN
Endosulfan + menazon, applied frequently	ME
	EN+ME

Sub plots: 2. Compound fertiliser (25:0:16), applied for first cut only, after which experiment ended (kg N):

	N
38	38
75	75
150	150

Basal applications: Manures: (0:14:28) at 500 kg.

Seed: Granie, sown spring 1973 at 45 kg.

Cultivations, etc.: - Basal PK applied: 14 Jan, 1975. NK treatments applied: 6 Mar. Cut once: 29 May.

NOTE: A mite count was made on 6 May.

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1ST AND ONLY CUT (29/5/75) DRY MATTER TONNES/HECTARE

*** TABLES OF MEANS ***

CHEMRES	O	BA	BE	CA	DA	EN	ME	EN+ME	MEAN
N									
38	3.53	4.05	3.41	3.59	3.52	3.67	3.38	3.30	3.55
75	4.72	5.04	4.53	4.86	5.32	4.72	4.52	4.71	4.79
150	4.99	5.44	5.47	4.94	5.32	5.09	5.07	5.33	5.16
MEAN	4.41	4.84	4.47	4.46	4.72	4.49	4.33	4.45	4.50

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

TABLE	N	CHEMRES	N	CHEMRES
SED		0.166 (1)		0.276 (1)
	0.105	0.203 (2)		0.339 (2)
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:				
CHEMRES				
		0.191 (3)		
		0.332 (2)		

- (1) O V ANY OF REMAINDER
- (2) ANY OF REMAINDER
- (3) O

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

STRATUM	DF	SE	CV%
BLOCK.WP	20	0.249	5.5
BLOCK.WP.SP	44	0.406	9.0

MEAN DM% 21.6

PLOT AREA HARVESTED 0.00050