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# Yields of the Field Experiments 1975

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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',<br>applied frequently | DA      |
| Menazon, 0.7 l of 'Saphi-Col',<br>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):

|     |     |
|-----|-----|
| 38  | 38  |
| 75  | 75  |
| 150 | 150 |

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

Seed: Gremie, 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.

75/R/CS/106

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

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

| CHEMRES<br>N | O    | BA   | BE   | CA   | DA   | EN   | ME   | EN+ME | MEAN |
|--------------|------|------|------|------|------|------|------|-------|------|
| 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 | 4.34 | 4.47 | 4.46 | 4.72 | 4.49 | 4.33 | 4.45  | 4.50 |

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

| TABLE                                              | N     | CHEMRES   | N<br>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