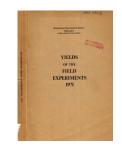
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Yields of the Field Experiments 1971



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Rothamsted Research

Rothamsted Research (1972) 71/R/CS/42 Effect of Invertebrates on Yield - Old Grass; Yields Of The Field Experiments 1971, pp 172 - 173 - DOI: https://doi.org/10.23637/ERADOC-1-97

71/R/CS/42

EFFECT OF INVERTEBRATES ON YIELD

Object: To study the effect of a range of invertebrate-killing chemicals on the yield of old grass - Road Piece.

The third year, old grass.

For previous years see 69/R/CS/42(t) and 70/R/CS/42(t).

Whole plot dimensions: 2.74 x 6.40. Area harvested: 0.00065.

Basal applications: 505 kg (0:14:28) in winter, 440 kg (25:0:16) in spring, 224 kg (25:0:16) after each cut except the last.

Cultivations, etc.: PK applied: 19 Oct, 1970. NK applied: 26 Mar, 1971. Cut 3 times: 20 May, 8 July, 14 Sept. NK applied after first two cuts. Chemical treatments applied:

Chlorbenside: 15 Jan, 5 Mar, 7 Apr, 12 May, 11 June, 16 July,

23 Aug, 9 Dec. 14 Jan, 4 Mar, 6 Apr, 11 May, 10 June, 15 July, Menazon:

23 Aug, 9 Dec.

14 Jan, 5 Mar, 7 Apr, 11 May, 11 June, 16 July, Dimethoate:

23 Aug, 9 Dec.

Parathion: 15 Jan, 5 Mar, 7 Apr, 12 May, 11 June, 19 July,

23 Aug.

Metaldehyde 11 May, 10 June, 15 July, 23 Aug, 9 Dec.

Metaldehyde 14 Jan, 4 Mar, 6 Apr.

spray:

Aldrin: 8 Dec, 1971. Chlordane: 8 Dec, 1971.

NOTES: (1) Formalin and C14421 were not applied in 1971.

(2) Samples were taken for botanical analysis. Samples for fauna were taken throughout the year.

ERRATUM, 69/R/CS/42:- Treatments - 'Parathion bran bait - parathion at 0.8 oz (against leatherjackets) and not as shown, (0.8 oz per acre = 56 g per hectare).

71/R/CS/42

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Standard errors per plot. Dry matter, tonnés/hectare:

1st cut: 0.508 or 9.8% (33 d.f.)
2nd cut: 0.259 or 8.4% (33 d.f.)
3rd cut: 0.310 or 16.7% (33 d.f.)
Total of 3 cuts: 0.662 or 6.5% (33 d.f.)

SUMMARY OF RESULTS

DRY MATTER: TONNES/HECTARE

	1ST CUT	2ND CUT	3RD CUT TO	TAL OF 3 CUTS
OS FCB FMZ F3 O SFO SL SN SMT S3 S4 F3+S4	5.06 5.07 5.27 4.91 5.22 5.81 (±0.254) 5.17 4.94 5.51 5.36 4.82 5.21	2.99 3.05 3.06 3.03 3.36 2.97 (±0.129) 3.10 3.07 3.18 3.03 2.89 3.17	1.86 1.79 1.69 2.07 1.83 1.81 (±0.155) 1.90 1.83 1.73 1.94 1.93 1.93	9.92 9.91 10.03 10.01 10.40 10.59 (±0.331) 10.16 9.84 10.43 10.34 9.65 10.31
Mean	5.20	3.08	1.86	10.13

Mean D.M. %: 1st cut: 20.3 2nd cut: 20.1 3rd cut: 25.0 Total of 3 cuts: 20.8