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71/R/CS/42 Effect of Invertebrates on Yield - Old Grass

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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:

Chlorbenseide: 15 Jan, 5 Mar, 7 Apr, 12 May, 11 June, 16 July,
23 Aug, 9 Dec.

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

Dimethoate: 14 Jan, 5 Mar, 7 Apr, 11 May, 11 June, 16 July,
23 Aug, 9 Dec.

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

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

Metaldehyde spray: 14 Jan, 4 Mar, 6 Apr.

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

2

Standard errors per plot. Dry matter, tonnes/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	TOTAL OF 3 CUTS
OS	5.06	2.99	1.86	9.92
FCB	5.07	3.05	1.79	9.91
FMZ	5.27	3.06	1.69	10.03
F3	4.91	3.03	2.07	10.01
O	5.22	3.36	1.83	10.40
SFO	5.81 (± 0.254)	2.97 (± 0.129)	1.81 (± 0.155)	10.59 (± 0.331)
SL	5.17	3.10	1.90	10.16
SN	4.94	3.07	1.83	9.84
SMT	5.51	3.18	1.73	10.43
S3	5.36	3.03	1.94	10.34
S4	4.82	2.89	1.93	9.65
F3+S4	5.21	3.17	1.93	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