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

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Rothamsted Research (1971) *70/R/CS/42 Effect of Invertebrates on Yield - Old Grass* ; Numerical Results Of The Field Experiments 1970, pp 183 - 184 - **DOI:**
<https://doi.org/10.23637/ERADOC-1-59>

EFFECT OF INVERTEBRATES ON YIELD

(70/R/CS/42)

Old grass, Road Piece 1970, the second year. For treatments and previous year's results see 'Results' 69/R/CS/42.

Area of each plot: 0.0043. Area harvested: 0.0016.

Basal applications: 448 lb (0:14:28) in winter, 390 lb (25:0:16) in spring and 200 lb (25:0:16) after each cut except the last.

Cultivations, etc.: FK applied: 23 Oct, 1969. NK applied: 17 Mar, 1970. Cut 3 times: 2 June, 3 Aug, 1 Oct. NK applied after first two cuts. Chemical treatments applied:
Chlorbenside: 2 Jan, 10 Feb, 20 Mar, 30 Apr, 4 June, 8 July, 13 Aug, 15 Sept, 15 Oct, 8 Dec.
Menazon: 2 Jan, 5 Feb, 20 Mar, 29 Apr, 4 June, 7 July, 12 Aug, 14 Sept, 14 Oct, 8 Dec.
Dimethoate: 14 Jan, 6 Feb, 20 Mar, 29 Apr, 4 June, 7 July, 13 Aug, 14 Sept, 14 Oct, 7 Dec.
Parathion: 4 May, 4 June, 6 July, 14 Aug, 15 Sept, 7 Dec.
C 14421: 1 May.
Formalin: 6 May (40% solution at 60.5 gals in 9680 gals).
Metaldehyde: 2 Jan, 6 Feb, 19 Mar, 30 Apr, 29 May, 7 July, 13 Aug, 14 Sept, 14 Oct, 7 Dec.

- NOTES: (1) Treatment F3 and S4 also received parathion and formalin in 1970.
(2) Samples were taken for botanical analysis. Samples for fauna were taken throughout the year.
(3) Aldrin and chlordane were not applied in 1970.

Standard errors per plot. Dry matter, cwt:

1st cut:	3.86 or 9.2% (33 d.f.)
2nd cut:	1.88 or 35.0% (33 d.f.)
3rd cut:	2.67 or 23.4% (33 d.f.)
Total of 3 cuts:	6.62 or 11.2% (33 d.f.)

70/R/CS/42

SUMMARY OF RESULTS

DRY MATTER: CWT

	1ST CUT	2ND CUT	3RD CUT	TOTAL OF 3 CUTS
O	42.4	4.2	12.2	58.8
B	40.0	3.0	8.8	51.8
FCB	40.9	5.5	9.9	56.3
FMZ	45.7	5.1	10.9	61.7
F3	43.6	7.5	13.9	64.9
SFO	37.4	3.0	8.4	48.9
SL	42.5 (± 1.93)	4.9 (± 0.94)	10.8 (± 1.33)	58.1 (± 3.31)
SN	40.5	3.5	11.5	55.5
SMT	43.4	4.1	9.6	57.2
S3	46.7	7.1	13.6	67.4
S4	43.1	7.9	12.0	63.0
F3+S4	38.6	8.7	15.1	62.4
Mean	42.1	5.4	11.4	58.8

Mean D.M. %: 1st cut: 23.5
 2nd cut: 29.7
 3rd cut: 24.5
 Total of 3 cuts: 25.9