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RESEARCH

## Yields of the Field Experiments 1972

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

#### Rothamsted Research

Rothamsted Research (1973) *72/R/CS/42 Effect of Invertebrates on Yield - Old Grass* ; Yields Of The Field Experiments 1972, pp 189 - 191 - DOI: <https://doi.org/10.23637/ERADOC-1-62>

72/R/CS/42

EFFECT OF INVERTEBRATES ON YIELD

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

Sponsor: I.F. Henderson.

The fourth year, old grass.

For previous years see 69/R/CS/42(t), 70/R/CS/42(t) and 71/R/CS/42(t).

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

Treatments (T): One of the previously untreated (unsampled) plots in each block now receives treatment F3~~4~~(F3~~4~~\*).

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: 15 Nov, 1971. NK applied: 13 Mar, 1972.  
Cut 3 times: 23 May, 20 July, 11 Sept. NK applied after the first 2 cuts.

Chemical treatments applied:

Chlorbenseide:	17 Feb, 19 Apr, 12 May, 14 June, 13 July, 22 Aug, 14 Sept.
Menazon:	17 Feb, 18 Apr, 11 May, 14 June, 12 July, 21 Aug, 14 Sept, 25 Oct.
Dimethoate:	16 Feb, 19 Apr, 12 May, 14 June, 13 July, 22 Aug, 14 Sept, 26 Oct.
Parathion:	23 Feb, 19 Apr, 12 May, 14 June, 13 July, 22 Aug, 21 Sept, 26 Oct.
Metaldehyde:	16 Feb, 19 Apr, 12 May, 14 June, 12 July, 21 Aug, 14 Sept.
Aldrin:	8 Dec, 1971.
Chlordane:	8 Dec, 1971.

NOTES: (1) Formalin and C14421 were not applied in 1972.  
(2) Samples were taken for botanical analysis. Samples for fauna were taken throughout the year.

72/R/CS/42

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

1st cut:	0.565	or	9.6%	(33 d.f.)
2nd cut:	0.231	or	8.3%	(33 d.f.)
3rd cut:	0.217	or	17.5%	(33 d.f.)
Total of 3 cuts:	0.696	or	7.0%	(33 d.f.)

72/R/CS/42

TABLES OF MEANS

DRY MATTER: TONNES/HECTARE

	1ST CUT	2ND CUT	3RD CUT	TOTAL OF 3 CUTS
T				
O	5.66	2.63	1.09	9.38
FCB	5.77	2.96	1.27	10.00
FMZ	5.97	2.75	1.26	9.97
F3	5.79	3.08	1.22	10.10
F3S4*	5.20	2.98	1.28	9.46
SFO	6.07	2.59	1.12	9.78
SL	5.98	2.75	1.37	10.10
SN	5.72	2.49	1.25	9.45
SMT	5.83	2.59	1.15	9.57
S3	6.13	2.93	1.53	10.59
S4	6.16	2.92	1.16	10.24
F3S4	6.21	2.94	1.25	10.39

STANDARD ERRORS OF DIFFERENCES

T	0.399	0.164	0.154	0.492
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Mean D.M. %: 1st cut: 17.2  
 2nd cut: 22.9  
 3rd cut: 30.1  
 Total of 3 cuts: 23.4

\* Since 1972