

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1989

[Full Table of Content](#)



89/R/WW/9 and 89/W/WW/9 Control of Slugs - W. Wheat

Rothamsted Research

Rothamsted Research (1990) *89/R/WW/9 and 89/W/WW/9 Control of Slugs - W. Wheat* ; Yields Of The Field Experiments 1989, pp 133 - 135 - DOI: <https://doi.org/10.23637/ERADOC-1-40>

89/R/WW/9 and 89/W/WW/9

WINTER WHEAT

CONTROL OF SLUGS

Object: To compare two experimental bait poisons with two standard bait poisons in preventing slug damage to w. wheat - Rothamsted (R) Pastures and Woburn (W) Warren Field II.

Sponsors: I.F. Henderson, N. Coward, G. Turner.

Design: 3 randomised blocks of 8 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments:

MOLLCIDE Molluscicides:

NONE	None
AAA	Tris (2,4-pentandionate) Al III (10% a.i.)
ENH	Tris (1-oxo-1,2-diazabutan-2-oxido) Fe III (10% a.i.)
METHIO B	Methiocarb, Bayer formulation as 'Draza' (4% a.i.)
METHIO R	Methiocarb, Rothamsted formulation (4% a.i.)
METALD P	Metaldehyde, Plant Protection formulation as 'Mini Pellets' (6% a.i.)
METALD R	Metaldehyde, Rothamsted formulation (6% a.i.)
NONE RFP	Rothamsted formulation pellets, no molluscicide

NOTE: All baits were applied at 5.5 kg formulated product on 8 Nov, 1988 (R) and 4 Nov (W).

Basal applications:

Pastures (R): Manure: 'Nitram' at 360 kg. Weedkillers: Glyphosate at 1.4 kg in 200 l. Chlortoluron at 3.5 kg in 200 l. Fluroxypyr at 0.20 kg in 200 l.

Warren Field II (W): Manures: Magnesian limestone at 7.5 t. 'Nitram' at 470 kg. Weedkiller: Isoproturon at 2.1 kg in 220 l. Fungicide: Propiconazole at 0.12 kg in 220 l.

Seed: Mercia, sown at 180 kg (R).
Mercia, sown at 160 kg (W).

Cultivations, etc.:-

Pastures (R): Glyphosate applied: 28 Oct, 1988. Cultivated by rotary grubber: 7 Nov. Seed sown, harrowed: 8 Nov. Chlortoluron applied: 16 Nov. N applied: 19 Apr, 1989. Fluroxypyr applied: 8 May. Combine harvested: 4 Aug. Previous crops: Ley 1987 and 1988.

Warren Field II (W): Magnesian limestone applied: 14 Sept, 1988. Rotary harrowed with crumbler attached: 4 Oct. Rotary harrowed with crumbler attached, seed sown: 2 Nov. N applied: 19 Apr, 1989. Weedkiller applied: 6 May. Fungicide applied: 5 June. Combine harvested: 8 Aug. Previous crops: S. barley 1987, s. rape 1988.

89/R/WW/9 PASTURES (R)

GRAIN TONNES/HECTARE

***** Tables of means *****

MOLLCIDE	
NONE	4.75
AAA	5.06
ENH	5.29
METHIO B	5.29
METHIO R	5.21
METALD P	5.29
METALD R	5.28
NONE RFP	5.28
Mean	5.18

*** Standard errors of differences of means ***

MOLLCIDE
0.329

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	14	0.402	7.8
GRAIN MEAN DM%	86.6		
PLOT AREA HARVESTED	0.00230		

89/W/WW/9 WARREN FIELD II (W)

GRAIN TONNES/HECTARE

***** Tables of means *****

MOLLCIDE	
NONE	6.73
AAA	7.31
ENH	5.01
METHIO B	6.29
METHIO R	5.24
METALD P	6.29
METALD R	5.93
NONE RFP	5.92
Mean	6.09

*** Standard errors of differences of means ***

MOLLCIDE
0.931

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	14	1.140	18.7

GRAIN MEAN DM% 90.1

PLOT AREA HARVESTED 0.00300