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

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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		