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98/R/WW/5 Semiochemicals and Aphids - W. Wheat

Rothamsted Research

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98/R/WW/5

WINTER WHEAT

SEMIOCHEMICALS AND APHIDS

Object: To test semiochemicals on cereal aphids in autumn and spring migratory periods - Pastures.

Sponsors: L.E. Smart, B.J. Pye, L.J. Wadhams.

Design: 5 x 5 quasi-complete Latin square.

Whole plot dimensions: 6.0 x 6.0.

Treatments:

SEMIOCHM	Semiochemicals:
-	None
A	Methyl salicylate and nepetalactone
B	Methyl salicylate in autumn. Polygodial applied by electrostatic sprayer applied in October and twice in June
C	Camphor
D	AJH/8/158 at 50 g in 200 l applied in May and June

NOTE: Methyl salicylate, camphor and nepetalactone were applied as point sources in the centre of the plots from 21-Oct-98. AJH/8/158 is under commercial development, composition undisclosed.

Experimental diary:

11-Sep-97 : B : Harvest at 3.0 l in 300 l.
26-Sep-97 : B : Ploughed. Rolled.
06-Oct-97 : B : Rotary harrowed, Consort, undressed, drilled at 380 seeds per m².
24-Oct-97 : B : Tiger 90 at 15 kg.
27-Oct-97 : T : SEMIOCHM B: Polygodial at 50 g ai in 10.4 l.
26-Nov-97 : B : Atlas Fieldgard at 5.0 l with MSS Optica at 0.7 l in 100 l.
19-Feb-98 : B : 34.5% N at 120 kg.
27-Apr-98 : B : Opus at 0.6 l with Tripart Brevis at 2.25 l in 200 l.
28-Apr-98 : B : 34.5% N at 460 kg.
05-May-98 : B : Ally at 20 g with Starane 2 at 0.7 l in 200 l.
08-May-98 : T : SEMIOCHM D: AJH/8/158 at 50 g ai in 200 l.
15-May-98 : B : Bravo 500 at 1.0 l with Opus at 0.5 l in 200 l.
01-Jun-98 : T : SEMIOCHM D: AJH/8/158 at 50 g ai in 200 l.
04-Jun-98 : T : SEMIOCHM B: Polygodial at 50 g ai in 10.4 l.
15-Jun-98 : B : Bavistin DF at 0.5 kg with Folicur at 0.5 l in 100 l.
19-Jun-98 : T : SEMIOCHM B: Polygodial at 50 g ai in 10.4 l.
 : T : SEMIOCHM D: AJH/8/158 at 50 g ai in 200 l.
19-Aug-98 : T : Combine harvested.

Previous crops: Ley 1996, s. beans 1997.

98/R/WW/5

NOTE: Aphid populations were assessed on five occasions in October and November and weekly from mid-May to end of July.

GRAIN TONNES/HECTARE

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

SEMIOCHM

-	10.57
A	10.40
B	10.38
C	10.35
D	10.86

Mean 10.51

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

SEMIOCHM

0.257

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

Stratum	d.f.	s.e.	cv%
ROW.COL	12	0.407	3.9

GRAIN MEAN DM% 88.2

PLOT AREA HARVESTED 0.00138