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

Rothamsted Research

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97/R/WW/5

WINTER WHEAT

SEMIOCHEMICALS AND APHIDS

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

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	Polygodial applied by electrostatic sprayer
B	Methylsalicylate
C	Neptalactone
D	Methylsalicylate and neptalactone

SEMIOCHM B, C and D were released from point sources at the plot centres from 24-Oct-96.

Experimental diary:

28-Aug-96 : B : PK as (0:20:32) at 1400 kg.
23-Sep-96 : B : Roundup at 1.5 l with Vassgro Non-ionic at 0.5 l in 200 l.
01-Oct-96 : B : Ploughed and furrow pressed.
08-Oct-96 : B : Spring-tine cultivated. Rotary harrowed, Mercia, dressed Sibutol, drilled at 380 seeds per m².
14-Nov-96 : T : SEMIOCHM A: Polygodial at 50 g a.i. in 10.4 l.
05-Dec-96 : B : Isoproturon 500 at 2.6 l with Stomp 400 SC at 3.1 l in 200 l.
11-Mar-97 : B : 34.5% N at 118 kg.
11-Apr-97 : B : 34.5% N at 464 kg. Clayton Turret at 1.5 l with Barclay Holdup at 2.3 l in 300 l.
09-Jun-97 : T : SEMIOCHM A: Polygodial at 50 g a.i. in 10.4 l.
16-Jun-97 : B : Folicur at 0.5 l with Mallard 750 EC at 0.3 l and Pointer at 0.5 l in 300 l.
17-Jun-97 : T : SEMIOCHM A: Polygodial at 50 g a.i. in 10.4 l.
12-Aug-97 : B : Combine harvested.

Previous crops: S. wheat 1995 and 1996.

NOTES: Aphid populations were assessed frequently in November and May to July.

97/R/WW/5

GRAIN TONNES/HECTARE

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

SEMIOCHM

-	8.23
A	8.35
B	8.37
C	8.12
D	8.18

Mean	8.25
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*** Standard errors of differences of means ***

SEMIOCHM

0.146

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

Stratum	d.f.	s.e.	cv%
ROW.COL	12	0.231	2.8

GRAIN MEAN DM% 87.1

PLOT AREA HARVESTED 0.00144