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Rothamsted Research

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00/R/WW/5

WINTER WHEAT

SEMIOCHEMICALS AND APHIDS

Object: To test semiochemicals on cereal aphids and their parasitoids - Sawyers II.

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

Design: 4 x 4 Latin square.

Whole plot dimensions: 6.0 x 6.0.

Treatments:

SEMICHEM	Semiochemicals:
-	None
N	Nepetalactone
M	AJH/8/158
NS	Nepetalactone and AJH/8/158

NOTE: AJH/8/158 is under commercial development, composition undisclosed.

Experimental diary:

30-Aug-99	: B :	: Ploughed.
07-Sep-99	: B :	: Rolled. Combination drilled, Riband, tr. Sibutol, at 200 seeds/m ² with the Accord drill. Rolled.
05-Oct-99	: T : M,NS	: AJH/8/158 at 50 g a.i. in 200 l.
	: T : N,NS	: Nepetalactone applied.
03-Nov-99	: B :	: Lexus Class WSB at 60 g in 200 l.
24-Feb-00	: B :	: tm)Hawk at 2.5 l in 220 l.
	: B :	: tm)Tolkan Turbo at 2.0 l in 220 l.
	: B :	: tm)Cropoil at 1.0 l in 220 l.
08-Mar-00	: B :	: 34.5% N at 232 kg.
25-Apr-00	: B :	: tm)BASF 3C Chlormequat 720 at 2.0 l in 200 l.
	: B :	: tm)Moddus at 0.2 l in 200 l.
27-Apr-00	: B :	: 34.5% N at 348 kg.
01-May-00	: B :	: tm)Opus at 0.5 l in 200 l.
	: B :	: tm)Unix at 0.5 kg in 200 l.
12-May-00	: T : M,NS	: AJH/8/158 at 50 g a.i. in 200 l.
22-May-00	: B :	: Folicur at 0.75 l in 100 l.
25-May-00	: T : N,NS	: Nepetalactone applied.
17-Aug-00	: B :	: Combine harvested.

Previous crops: W. wheat 1998, set-aside 1999.

NOTES: (1) Nepetalactone was dispensed from point-sources placed at the centre of the plots.
(2) Assessments of aphid and aphid numbers were made on five occasions in October and November and seven occasions in May and June.

00/R/WW/5

GRAIN TONNES/HECTARE

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

SEMICHEM

-	5.86
N	6.30
M	6.32
NS	5.94

Mean	6.11
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*** Standard errors of differences of means ***

SEMICHEM

0.371

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

Stratum	d.f.	s.e.	cv%
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ROW.COL	6	0.524	8.6
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GRAIN MEAN DM% 85.5

PLOT AREA HARVESTED 0.00228