

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 1998

[Full Table of Content](#)



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

#### Rothamsted Research

Rothamsted Research (1999) *98/R/WW/5 Semiochemicals and Aphids - W. Wheat* ; Yields Of The Field Experiments 1998, pp 124 - 125 - DOI: <https://doi.org/10.23637/ERADOC-1-52>

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 m<sup>2</sup>.  
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