

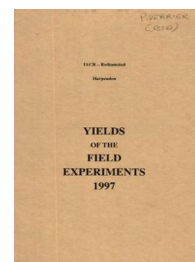
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED  
RESEARCH

## Yields of the Field Experiments 1997

[Full Table of Content](#)



---

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

#### Rothamsted Research

Rothamsted Research (1998) *97/R/WW/5 Semiochemicals and Aphids - W. Wheat* ; Yields Of The Field Experiments 1997, pp 112 - 113 - DOI: <https://doi.org/10.23637/ERADOC-1-53>

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:**

<b>SEMIOCHM</b>	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 m<sup>2</sup>.  
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

\*\*\* 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