

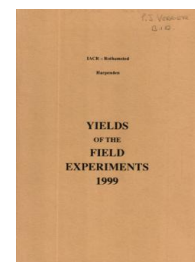
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## Yields of the Field Experiments 1999

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### 99/R/WW/5 Semiochemicals and Aphids -w. Wheat

#### Rothamsted Research

Rothamsted Research (2000) *99/R/WW/5 Semiochemicals and Aphids -w. Wheat* ; Yields Of The Field Experiments 1999, pp 122 - 123 - DOI: <https://doi.org/10.23637/ERADOC-1-34>

99/R/WW/4

Previous crops: W. wheat 1997, w. oats 1998.

**GRAIN TONNES/HECTARE**

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

	T	D O	H O	H A	H B	H C	Mean
<b>IRRIGATN</b>							
-		8.79	9.11	8.60	7.43	9.16	8.65
I		8.74	8.72	8.30	6.89	7.88	8.21
Mean		8.76	8.91	8.45	7.16	8.52	8.43

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

IRRIGATN	T	IRRIGATN	T
	0.484	0.684	min.rep
0.279	0.419	0.592	max-min
		0.484	max.rep

**IRRIGATN**  
 min.rep Any of the remainder  
 max-min D O v any of the remainder  
 max.rep D O

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	24	0.838	9.9

GRAIN MEAN DM% 90.5

PLOT AREA HARVESTED 0.00138

99/R/WW/5

WINTER WHEAT

SEMIOCHEMICALS AND APHIDS

**Object:** To test semiochemicals on cereal aphids and their parasitoids - New Zealand.

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

**Design:** 5 x 5 quasi-complete Latin square.

**Whole plot dimensions:** 6.0 x 6.0.

**Treatments:**

SEMICHEM	Semiochemicals:
-	None
A	Methyl salicylate and nepetalactone
B	Methyl salicylate with polygodial applied by electrostatic sprayer in October
C	Camphor
D	AJH/8/158 at 50 g in 200 l applied in October, May and June

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

**Experimental diary:**

14-Aug-98 : B : : Ploughed and furrow pressed, started.  
15-Aug-98 : B : : Disced ploughing.  
          : B : : Ploughing continued.  
16-Aug-98 : B : : Ploughing completed.  
18-Aug-98 : B : : Rolled.  
11-Sep-98 : B : : Combination drilled, Consort, untreated, at 380  
  seeds/m<sup>2</sup> with the Accord drill.  
12-Sep-98 : B : : Hardy at 7.5 kg.  
16-Sep-98 : B : : Hardy at 7.5 kg.  
21-Sep-98 : T : A : Nepetalactone and methyl salicylate, in dispensers,  
  replaced as necessary through season.  
                  : T : B : Methyl salicylate, in dispensers, replaced as necessary  
  through season.  
                  : T : C : 2-tridecanone and 6-methyl-5-hepten-2-one, in  
  dispensers replaced through season as necessary.  
09-Oct-98 : T : D : AJH/8/158 at 50 g ai in 200 l, repeated 6-May-99 and  
  11-Jun-99.  
15-Oct-98 : T : B : Polygodial electrostatically at 50 g ai in 10.41 l.  
15-Feb-99 : B : : tm)Isoguard at 1.0 l in 200 l, started.  
          : B : : tm)Unite A at 0.125 l in 200 l, started.  
          : B : : tm)Unite B at 1.0 l in 200 l, started.  
          : B : : tm)Cropoil at 1.0 l in 200 l, started.  
24-Feb-99 : B : : tm)Isogard at 1.0 l in 200 l, completed.  
          : B : : tm)Unite A at 0.125 l in 200 l, completed.  
          : B : : tm)Unite B at 1.0 l in 200 l, completed.  
          : B : : tm)Cropoil at 1.0 l in 200 l, completed.  
16-Mar-99 : B : : 34.5% N at 145 kg.  
16-Apr-99 : B : : 34.5% N at 435 kg.  
05-May-99 : B : : Opus at 0.7 l in 200 l.