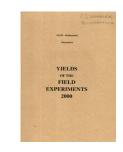
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Yields of the Field Experiments 2000



Full Table of Content

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

Rothamsted Research

Rothamsted Research (2001) 00/R/WW/5 Semiochemicals and Aphids - W. Wheat; Yields Of The Field Experiments 2000, pp 119 - 120 - DOI: https://doi.org/10.23637/ERADOC-1-55

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: 6.0×6.0 .

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/m2 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.
                    : tm) Hawk at 2.5 1 in 220 1.
: tm) Tolkan Turbo at 2.0 1 in 220 1.
24-Feb-00 : B :
          : B :
                    : tm)Cropoil at 1.0 1 in 2201 1.
          : B :
                    : 34.5% N at 232 kg.
08-Mar-00 : B :
25-Apr-00 : B :
                    : tm) BASF 3C Chlormequat 720 at 2.0 1 in 200 1.
          : B :
                    : tm) Moddus at 0.2 1 in 200 1.
27-Apr-00 : B :
                    : 34.5% N at 348 kg.
01-May-00 : B : : tm) Opus at 0.5 l in 200 l.
                     : tm) Unix at 0.5 kg in 200 1.
          : B :
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 1 in 100 1.
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 6.32 M 5.94 NS

Mean 6.11

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

SEMICHEM

0.371

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

Stratum

d.f.

s.e.

CV%

ROW.COL

6 0.524 8.6

GRAIN MEAN DM% 85.5

PLOT AREA HARVESTED 0.00228