

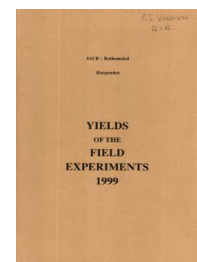
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99/R/WW/5 Semiochemicals and Aphids -w. Wheat

Rothamsted Research

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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 |
|-----------------|---|------|------|------|------|------|------|
| IRRIGATN | | | | | | | |
| - | | 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 ² 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. |