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

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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/m² 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.