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96/R/WW/10 Pheromones in Winter Wheat

Rothamsted Research

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96/R/WW/10

WINTER WHEAT

PHEROMONES IN WINTER WHEAT

Object: To test the effects of aphid sex pheromones on aphid parasitoids in w. wheat - Great Field I/II.

Sponsors: R. Glinwood, W. Powell.

Design: 4 x 4 Latin square balanced for neighbours.

Whole plot dimensions: 6.0 x 6.0.

Treatments:

PHERMONE	Pheromone nepetalactone, vials per plot:
C	None
L1	1
L2	2
L3	3

Experimental diary:

29-Jul-95 : B : Straw baled.
05-Aug-95 : B : PK as 0:20:32 at 1407 kg.
12-Sep-95 : B : Ploughed and furrow pressed.
13-Oct-95 : B : Spring-tine cultivated.
20-Oct-95 : B : Rotary harrowed, Hereward, dressed Sibutol, drilled at 380 seeds per m².
23-Oct-95 : B : Avadex BW Granular at 22.5 kg.
12-Mar-96 : B : 34.5% N at 116 kg.
16-Apr-96 : B : 34.5% N at 470 kg.
29-Apr-96 : B : Ally at 30 g with Barclay Holdup at 2.3 l in 200 l.
13-May-96 : T : **PHERMONE** L1, L2, L3: Nepetalactone placed in the crop.
13-Jun-96 : B : Alto 100 SL at 0.6 l with Mallard 750 EC at 0.4 l in 300 l.
19-Aug-96 : B : Combine harvested.

Previous crops: W. wheat 1994 and 1995.

NOTE: Aphid populations were monitored from June to August.

96/R/WW/10

GRAIN TONNES/HECTARE

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

 PHERMONE

C	8.34
L1	8.17
L2	8.02
L3	8.04

Mean	8.14
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*** Standard errors of differences of means ***

 PHERMONE

 0.278

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

Stratum	d.f.	s.e.	cv%
ROW.COL	6	0.393	4.8

GRAIN MEAN DM% 89.2

PLOT AREA HARVESTED 0.00138