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93/R/WW/1 Aphid Immigration - W. Wheat

Rothamsted Research

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93/R/WW/1

WINTER WHEAT

APHID IMMIGRATION

Object: To determine the role of immigration of cereal aphids in relation to forecasting outbreaks in summer - Highfield VI.

Sponsors: J. Mann, N. Carter.

Design: 4 blocks of 4 plots with external dummy plots and arranged to allow estimation of the effects of neighbouring plots.

Plot dimensions: 9.0 x 9.0.

Treatments:

INSCTCDE	Time of insecticide application:
NONE	None
MAR	Late March or early April
MARIMME	Late March or early April and at 10 day intervals from start of immigration until early growth stage
MARIMML	Late March or early April and at 10 day intervals from start of immigration until late growth stage

Experimental diary:

14-Sep-92 : B : Scythe at 3.0 l in 200 l.
16-Sep-92 : B : Disced.
22-Sep-92 : B : Ploughed.
07-Oct-92 : B : Disced.
08-Oct-92 : B : Disced.
09-Oct-92 : B : Rotary harrowed, Mercia, dressed Cerevax, drilled at 380 seeds per square metre.
14-Apr-93 : B : 34.5% N at 370 kg.
 : T : **INSCTCDE** MAR, MARIMME, MARIMML: Aphox at 280 g in 200 l.
30-Apr-93 : B : Cheetah R at 1.0 l and Starane 2 at 1.0 l in 200 l.
13-May-93 : T : **INSCTCDE** MARIMME, MARIMML: Aphox at 280 g in 200 l.
14-May-93 : B : 34.5% N at 120 kg.
28-May-93 : T : **INSCTCDE** MARIMME, MARIMML: Aphox at 280 g in 200 l.
04-Jun-93 : B : Halo at 2.0 l and Mistral at 0.50 l in 200 l.
 : T : **INSCTCDE** MARIMME, MARIMML: Aphox at 280 g in 200 l.
22-Jun-93 : T : **INSCTCDE** MARIMML: Aphox at 280 g in 200 l.
08-Jul-93 : T : **INSCTCDE** MARIMML: Aphox at 280 g in 200 l.
18-Aug-93 : T : Combine harvested.

Previous crops: S. beans 1991, w. oats 1992.

NOTE: Samples were taken between April and July to assess aphid populations. Ear numbers were estimated before harvest.

93/R/WW/1

GRAIN TONNES/HECTARE

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

INSCTCDE	
NONE	7.86
MAR	8.10
MARIMME	8.39
MARIMML	7.97
Mean	8.08

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

INSCTCDE
0.353

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	9	0.499	6.2

GRAIN MEAN DM% 83.7

PLOT AREA HARVESTED 0.00207