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92/R/WW/4 Aphid Immigration - W. Wheat

Rothamsted Research

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92/R/WW/4

WINTER WHEAT

APHID IMMIGRATION

Object: To determine the role of immigration of cereal aphids in relation to forecasting outbreaks in summer - Black Horse I N.

Sponsor: N. Carter.

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

Whole plot dimensions: 9.0 x 9.0.

Treatments:

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

Experimental diary:

14-Aug-91 : B : Straw chopped.
01-Sep-91 : B : Deep-tine cultivated with vibrating tines, 60 cm apart and 45 cm deep.
16-Sep-91 : B : Ploughed and furrow pressed.
25-Sep-91 : B : Rotary harrowed, Mercia drilled at 160 kg.
26-Sep-91 : B : Rolled.
03-Dec-91 : B : Stefes IPU at 1.0 l and Stomp 400 at 2.5 l in 200 l.
17-Feb-92 : B : PK as (0:18:36) at 940 kg.
27-Feb-92 : B : 34.5% N at 120 kg.
03-Apr-92 : B : 34.5% N at 320 kg.
09-Apr-92 : T : **INSCTCDE** MAR, MARIMME, MARIMML: Aphox at 0.28 kg in 200 l.
20-May-92 : B : Ally at 0.06 kg and Dorin at 1.0 l in 200 l.
20-May-92 : T : **INSCTCDE** MARIMME, MARIMML: Aphox at 0.28 kg in 200 l.
04-Jun-92 : T : **INSCTCDE** MARIMME, MARIMML: Aphox at 0.28 kg in 200 l.
22-Jun-92 : T : **INSCTCDE** MARIMML: Aphox at 0.28 kg in 200 l.
23-Jun-92 : B : Mistral at 0.50 l and Radar at 0.50 l in 200 l.
30-Jul-92 : B : Combine harvested.

Previous crops: W. barley 1990, w. oilseed rape 1991.

NOTE: Plant samples were taken in spring and summer to assess aphid populations and in mid-July to count the number of ears.

92/R/WW/4

GRAIN TONNES/HECTARE

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

INSC TCDE	
NONE	8.32
MAR	8.58
MARIMME	8.73
MARRIML	8.50
Mean	8.53

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

INSC TCDE
0.180

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	9	0.255	3.0
GRAIN MEAN DM%	85.1		
PLOT AREA HARVESTED	0.00207		