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92/R/BS/1 Insecticides and Aphids - S. Barley

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92/R/BS/1

SPRING BARLEY

INSECTICIDES AND APHIDS

Object: To compare the effects of a range of insecticides on the control of aphids and barley yellow dwarf virus (BYDV) and on the yield of spring barley - Little Hoos.

Sponsors: N. Carter, R.T. Plumb.

Design: 4 blocks of 5 plots, with external dummy plots and arranged to allow estimation of the effects of neighbouring plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments:

INSECTCDE	Insecticides:
NONE	None
IMIDA SD	Imidacloprid seed dressing
DELTA SP	Deltamethrin spray
DEMET SP	Demeton-S-methyl spray
PIRIM SP	Pirimicarb spray

NOTE: Imidacloprid seed dressing applied as a 35% w/v formulation at 300 ml per 100 kg seed.

Experimental diary:

30-Aug-91 : B : Straw chopped.
29-Oct-91 : B : Ploughed.
22-Apr-92 : B : 34.5% N at 440kg.
22-Apr-92 : T : Spring-tine cultivated, rotary harrowed. Alexis, dressed Cerevax (except **INSECTCDE** IMADA SD), drilled at 160kg.
22-Apr-92 : T : **INSECTCDE** IMIDA SD: Spring-tine cultivated, rotary harrowed. Alexis, dressed imidacloprid, drilled at 160 kg.
22-Apr-92 : B : Rolled.
19-May-92 : B : Duplosan New System CMPP at 2.0 l, Vindex at 1.0 l and Calixin at 0.70 l in 200 l.
19-May-92 : T : **INSECTCDE** DELTA SP: Decis at 0.20 l in 220 l.
: T : **INSECTCDE** DEMET SP: Metasystox 55 at 0.42 l in 220 l.
: T : **INSECTCDE** PIRIM SP: Aphox at 0.28 kg in 220 l.
04-Jun-92 : T : **INSECTCDE** DELTA SP: Decis at 0.20 l in 300 l.
: T : **INSECTCDE** DEMET SP: Metasystox 55 at 0.42 l in 300 l.
: T : **INSECTCDE** PIRIM SP: Aphox at 0.28 kg in 300 l.
09-Jun-92 : B : Radar at 0.50 l in 200 l.
15-Jun-92 : T : **INSECTCDE** DELTA SP: Decis at 0.20 l in 200 l.
: T : **INSECTCDE** DEMET SP: Metasystox 55 at 0.42 l in 220 l.
: T : **INSECTCDE** PIRIM SP: Aphox at 0.28 kg in 220 l.
18-Aug-92 : B : Combine harvested.

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

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NOTE: Symptoms of BYDV were visually assessed in spring and summer and thousand grain weights measured at harvest.

GRAIN TONNES/HECTARE

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

INSCTCDE	
NONE	5.72
IMIDA SD	5.77
DELTA SP	5.81
DEMET SP	5.71
PIRIM SP	5.71
Mean	5.74

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

INSCTCDE	
	0.076

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.107	1.9
GRAIN MEAN DM%	83.8		
PLOT AREA HARVESTED	0.00230		