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## Yields of the Field Experiments 1992

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

#### Rothamsted Research

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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:**

<b>INSECTCDE</b>	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 \*\*\*\*\*

<b>INSCTCDE</b>	
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 \*\*\*

<b>INSCTCDE</b>
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		