

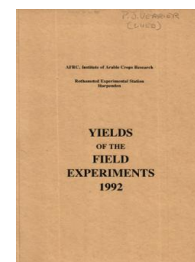
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## Yields of the Field Experiments 1992

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### 92/R/BES/4 Methods of Applying Anti-feedants - S. Beans

#### Rothamsted Research

Rothamsted Research (1993) *92/R/BES/4 Methods of Applying Anti-feedants - S. Beans* ; Yields Of The Field Experiments 1992, pp 142 - 143 - DOI: <https://doi.org/10.23637/ERADOC-1-47>

92/R/BES/4

SPRING BEANS

METHODS OF APPLYING ANTI-FEEDANTS

**Object:** To assess the efficiency of different spraying methods for applying anti-feedants to field beans - Delafield.

**Sponsors:** L.E. Smart, B.J. Pye.

**Design:** 5 x 5 quasi-complete Latin square.

**Whole plot dimensions:** 3.0 x 5.0.

**Treatments:**

CHEMAPPL	Type of chemical and method of application:
NONE	None
DELT JUM	Deltamethrin applied with Jumbo electrostatic sprayer
ANT HYDR	Anti-feedant applied with hydraulic sprayer
ANT APE	Anti-feedant applied with Ape electrostatic sprayer
ANT JUM	Anti-feedant applied with Jumbo electrostatic sprayer

**NOTE:** Anti-feedant applied was neem oil (100% a.i.).

**Experimental diary:**

- 28-Aug-91 : B : Straw chopped.
- 06-Dec-91 : B : Sting CT at 2.0 l in 200 l.
- 03-Jan-92 : B : Ploughed.
- 24-Feb-92 : B : PK as (0:20:32) at 1050 kg.
- 27-Feb-92 : B : Spring-tine cultivated, rotary harrowed, Alfred, undressed, drilled at 310 kg.
- 05-Mar-92 : B : Rolled.
- 09-Mar-92 : B : Opogard 500 FW at 2.3 l in 200 l.
- 22-Apr-92 : T : CHEMAPPL DELT JUM: Delamethrin at 10 g in 10 l.  
ANT HYDR: Neem oil at 4 kg in 400 l.  
ANT APE: Neem oil at 4 kg in 10 l.  
ANT JUM: Neem oil at 4 kg in 10 l.
- 05-May-92 : T : CHEMAPPL: All applications as 22-Apr-92.
- 13-May-92 : T : CHEMAPPL: All applications as 22-Apr-92.
- 24-Jun-92 : B : Chiltern Chlorothalonil at 1.5 l and Tripart Defensor FL at 0.5 l in 200 l.
- 09-Sep-92 : B : Combine harvested.

Previous crops: W. wheat 1991 and 1992.

**NOTE:** Estimates of crop damage by adult pea and bean weevil (*Sitona lineatus*) were made in spring.

92/R/BES/4

GRAIN TONNES/HECTARE

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

CHEMAPPL	
NONE	5.39
DELT JUM	5.20
ANT HYDR	5.35
ANT APE	5.09
ANT JUM	5.13
Mean	5.23

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

CHEMAPPL	
	0.231

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

Stratum	d.f.	s.e.	cv%
ROW.COL	12	0.366	7.0

GRAIN MEAN DM% 82.5

PLOT AREA HARVESTED 0.00115