

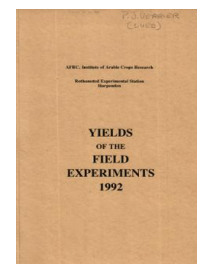
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1992

[Full Table of Content](#)



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