

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 1980

[Full Table of Content](#)



80/R/BE/7 Spring Beans Pyrethroids and Sitona

Rothamsted Research

Rothamsted Research (1981) *80/R/BE/7 Spring Beans Pyrethroids and Sitona* ; Yields Of The Field Experiments 1980, pp 287 - 287 - DOI: <https://doi.org/10.23637/ERADOC-1-31>

80/R/BE/7

SPRING BEANS

PYRETHROIDS AND SITONA

Object: To study the effects of four pyrethroid insecticides, applied as foliar sprays, on the incidence of Sitona and on the yield of s. beans - Gt. Knott II.

Sponsors: R. Bardner, D.C. Griffiths, K.E. Fletcher.

Design: 4 randomised blocks of 5 plots.

Whole plot dimensions: 5.33 x 9.14.

Treatments:

PYRETH Pyrethroids, applied in 340 l on 15 Apr, 1980.

NONE None
CYPERMET Cypermethrin at 0.06 kg
DECAMETH Decamethrin at 0.03 kg
FENVALER Fenvalerate at 0.06 kg
PERMETH Permethrin at 0.15 kg

NOTE: Decamethrin has now been re-named deltamethrin.

Basal applications: Manures: Chalk at 7.5 t. Weedkillers: Trietazine with simazine (as 'Remtal SC' at 2.5 l) in 250 l.

Seed: Minden, sown at 180 kg.

Cultivations, etc.: - Chalk applied: 8 Oct, 1979. Ploughed: 29 Nov.
Spring-tine cultivated: 1 Mar, 1980 and 3 Mar. Seed sown: 3 Mar.
Weedkillers applied: 21 Mar. Combine harvested: 18 Sept. Previous crops: W. wheat 1978, s. barley 1979.

NOTE: Leaf notching by adult Sitona lineatus was assessed in May, and soil cores were examined for larval populations in June.

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

| PYRETH | NONE | CYPERMET | DECAMETH | FENVALER | PERMETH | MEAN |
|--------|------|----------|----------|----------|---------|------|
| | 4.06 | 4.20 | 4.68 | 4.81 | 4.47 | 4.44 |

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

| TABLE | PYRETH |
|-------|--------|
| ----- | ----- |
| SED | 0.173 |

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

| STRATUM | DF | SE | CV% |
|----------|----|-------|-----|
| BLOCK.WP | 12 | 0.244 | 5.5 |

GRAIN MEAN DM% 80.4 PLOT AREA HARVESTED 0.00293