ROTHAMSTED RESEARCH

Yields of the Field Experiments 1979

Full Table of Content

79/R/BE/10 Times of Applying Permethrin - Beans

Rothamsted Research

Rothamsted Research (1980) *79/R/BE/10 Times of Applying Permethrin - Beans ;* Yields Of The Field Experiments 1979, pp 336 - 337 **- DOI: https://doi.org/10.23637/ERADOC-1-45**

79/R/BE/10

SPRING BEANS

TIMES OF APPLYING PERMETHRIN

Object: To study the effects of applying foliar sprays of permethrin at a range of dates on the incidence of Sitona and on the yield of spring beans - Summerdells 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:

PER DATE	Dates of applying permethrin (at 150 g on each occasion):
-	Not applied
18 MAY	Single spray on 18 May
18 JUNE	Single spray on 18 June
2 JULY	Single spray on 2 July
MA JN JL	Sprayed on all three above dates

NOTE: Permethrin was applied in 340 l.

Basal applications: Manures: Chalk at 7.5 t. FYM at 35 t. Weedkiller: Simazine at 0.84 kg in 220 l. Insecticide: Pirimicarb at 0.14 kg in 220 l.

Seed: Minden, sown at 220 kg.

Cultivations, etc.:- Chalk applied: 26 Oct, 1978. FYM applied: 14 Nov. Ploughed: 23 Nov. Heavy spring-tine cultivated: 19 Apr, 1979. Rotary harrowed: 20 Apr. Seed sown: 21 Apr. Weedkiller applied: 15 May. Basal insecticide applied: 22 June. Combine harvested: 21 Sept. Previous cropping: Spring wheat 1977, barley 1978.

NOTES: (1) On 2 July part of one of the 18 JUNE plots was sprayed with permethrin in error. An estimated value was used in the analysis.
(2) After each treatment plots were assessed for leaf notches. In June ground beetles were trapped and leaf samples were taken for permethrin decomposition measurements. In July the incidence of Sitona larvae was estimated from soil cores and in August adult populations were estimated by trapping.

https://doi.org/10.23637/ERADOC-1-45

79/R/BE/10

GRAIN TONNES/HECTARE

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

PER DATE	-	18 MAY	18 JUNE	2 JULY	MA JN JL	MEAN
	4.14	3.81	4.05	3.95	4.25	4.04

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

TABLE	PER DATE
SED	0.259

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

STRATUM	DF	SE	CV%
BLOCK.WP	11	0.366	9.1

GRAIN MEAN DM% 80.0

PLOT AREA HARVESTED 0.00293

https://doi.org/10.23637/ERADOC-1-45