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78/R/BE/14 Times of Applying Permethrin - Beans

Rothamsted Research

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78/R/BE/14

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 - Gt. Harpenden 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.

PER DATE Dates of applying permethrin (at 150 g on each occasion):

- Not applied
 11 MAY Single spray on 11 May
 9 JUNE Single spray on 9 June
 6 JULY Single spray on 6 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. Insecticide: Pirimicarb at 0.14 kg in 220 l.

Seed: Minden, sown at 200 kg.

Cultivations, etc.: Chalk applied: 12 Oct, 1977. Ploughed: 11 Nov. Spring-tine cultivated: 9 Mar, 1978. Heavy spring-tine cultivated, seed sown: 11 Mar. Tractor hoed: 19 May and 8 June. Basal insecticide applied: 10 July. Combine harvested: 25 Sept. Previous crops: Barley 1976 and 1977.

NOTE: Sitona damage to leaves was assessed in May. Incidence of Sitona larvae was assessed in June and July. Aphid incidence was assessed before and after treatments were applied. Persistence of permethrin was assessed.

GRAIN TONNES/HECTARE

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

PER DATE	-	11 MAY	9 JUNE	6 JULY	MA JN JL	MEAN
	4.88	5.02	5.25	5.17	4.96	5.06

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

TABLE	PER DATE
SED	0.262

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

STRATUM	DF	SE	CV%
BLOCK.WP	12	0.371	7.3

GRAIN MEAN DM% 84.6 PLOT AREA HARVESTED 0.00293