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85/R/BE/14 Insect Growth Regulator - S. Beans

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85/R/BE/14

SPRING BEANS

INSECT GROWTH REGULATOR

Object: To study the effects of three rates of a juvenile hormone mimic on black aphids (*Aphis fabae*) and on yield of spring beans - Long Hoos III 1.

Sponsors: D.C. Griffiths, J.H. Stevenson.

Design: 4 randomised blocks of 4 plots.

Whole plot dimensions: 2.4 x 6.0.

Treatments:

GROW REG	Rates of 'S 31183' juvenile hormone mimic:
NONE	None
S 10	10 g a.i
S 50	50 g a.i
S 250	250 g a.i

NOTE: Treatments were applied with a knapsack sprayer in 200 l on 4 July, 1985 repeated on 11 July.

Basal applications: Weedkillers: MCPB at 1.7 kg with glyphosate at 0.50 kg in 220 l. Trietazine at 1.2 kg with simazine at 0.17 kg and paraquat at 0.40 kg ion in 220 l. Insecticide: Permethrin at 0.052 kg in 220 l.

Seed: Minden, sown at 220 kg.

Cultivations, etc.: - MCPB and glyphosate applied: 29 Aug, 1984. Ploughed: 15 Nov. Spring-tine cultivated: 12 Mar, 1985. Seed sown: 13 Mar. Trietazine, simazine and paraquat applied: 18 Mar. Insecticide applied: 23 May. Combine harvested: 23 Sept. Previous crops: W. oats 1983, w. wheat 1984.

NOTE: Estimates of aphid populations were made on seven occasions during the season.

85/R/BE/14

GRAIN TONNES/HECTARE

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

GROW REG	NONE	S 10	S 50	S 250	MEAN
	3.65	3.60	3.79	3.64	3.67

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

TABLE	GROW REG
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SED	0.124

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

STRATUM	DF	SE	CV%
BLOCK.WP	6	0.176	4.8

GRAIN MEAN DM% 83.5

PLOT AREA HARVESTED 0.00086