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86/R/BE/8 Anti-feedants - S. Beans

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86/R/BE/8

SPRING BEANS

ANTI-FEEDANTS

Object: To study the effects of anti-feedants on insect pests and on yields of s.beans - Long Hoos V 8.

Sponsor: D.C. Griffiths.

Design: 4 randomised blocks of 8 plots.

Whole plot dimensions: 2.4 x 5.0.

Treatments:

CHEMICAL	Chemical foliar sprays:
NONE	None (triplicated)
AJUGA EX	Ajuga extract at 0.20 kg
PIPERINE	Piperine at 0.20 kg
POLYGODI	Polygodial at 0.10 kg
E B FARN	Undecyl adduct of (E)-beta-farnesene at 1.0 kg
DELT+PIR	Deltamethrin at 0.01 kg on 23 May, 1986, 11 June, 18 June and 27 June. Pirimicarb at 0.14 kg on 2 July and 8 July.

NOTES: (1) Treatment chemicals other than DELT+PIR were applied six times, on 23 May, 1986, 11 June, 18 June, 27 June, 2 July and 8 July.
(2) Treatment chemicals were applied with an electrostatic sprayer in 10 l.

Basal applications: Manures: Chalk at 2.9 t. Muriate of potash at 520 kg. Weedkillers: Glyphosate at 0.72 kg in 210 l. Trietazine at 1.2 kg with simazine at 0.17 kg and paraquat at 0.20 kg ion in 220 l.

Seed: Minden, sown at 220 kg.

Cultivations, etc.: - Muriate of potash applied: 23 Sept, 1985.
Glyphosate applied: 25 Sept. Chalk applied: 30 Sept. Harrowed: 15 Oct. Ploughed: 1 Nov. Spring-tine cultivated, seed sown: 28 Apr, 1986. Remaining weedkillers applied: 1 May. Combine harvested: 3 Oct. Previous crops: Potatoes 1984, w. wheat 1985.

NOTE: Damage caused by *Sitona lineatus* was assessed after the first spray. Estimates of aphid numbers were made on four occasions following the later sprays.

86/R/BE/8

GRAIN TONNES/HECTARE

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

CHEMICAL	NONE	AJUGA EX	PIPERINE	POLYGODI	E B FARN	DELT+PIR	MEAN
	2.68	2.62	1.52	2.91	1.86	3.91	2.61

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

TABLE	CHEMICAL
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SED	0.378 MIN REP
	0.309 MAX-MIN

	CHEMICAL
MAX-MIN	NONE V ANY OF THE REMAINDER
MIN REP	ANY OF THE REMAINDER

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

STRATUM	DF	SE	CV%
BLOCK.WP	23	0.535	20.5

GRAIN MEAN DM% 82.8

PLOT AREA HARVESTED 0.00072