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76/R/BE/5 Aphids and Entomophthora - S. Beans

Rothamsted Research

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76/R/BE/5

SPRING BEANS

APHIDS AND ENTOMOPHTHORA

Object: To study the effects of the fungus *Entomophthora* on aphid populations and yield of field beans - Little Hoos.

Sponsor: N. Wilding.

Design: 5 randomised blocks of 5 plots.

Whole plot dimensions: 9.14 x 9.22.

TREATMNT Treatments:

NONE None (3 plots/block)
 INSCTCDE Insecticide: Pirimicarb at 0.14 kg in 340 l on 22 June
 ENTAPHID *Entomophthora* spp. applied in live infected aphids on 17 June

NOTE: Two additional treatments were planned - application of maneb fungicide and of *E. virulenta* as resting spores. Because of exceptionally dry weather these were not applied.

Basal applications: Manures: Chalk at 7.5 t. FYM at 25 t. Weedkillers: Simazine at 1.1 kg in 220 l.

Seed: Minden, sown at 224 kg.

Cultivations, etc.: - Chalk applied: 19 Sept, 1975. Heavy spring-tine cultivated: 14 Oct. FYM applied: 23 Oct. Ploughed: 28 Oct. Spring-tine cultivated: 27 Feb, 1976. Seed sown: 5 Mar. Weedkiller applied: 9 Mar. Mechanically weeded: 27 May. Combine harvested: 20 July. Previous crops: Winter wheat 1974, barley 1975.

NOTE: Seedling emergence counts were made. Aphid numbers and the proportion infected by *Entomophthora* spp. Were measured during June and July.

GRAIN TONNES/HECTARE

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

TREATMNT	NONE	INSCTCDE	ENTAPHID	MEAN
	1.67	1.59	1.37	1.59

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

TABLE	TREATMNT	
SED	0.138	MIN REP
	0.113	MAX-MIN
	TREATMNT	
MAX-MIN	NONE V ANY OF REMAINDER	
MIN-REP	ANY OF REMAINDER	

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

STRATUM	DF	SE	CV%
BLOCK.WP	18	0.219	13.7
GRAIN MEAN DM%	83.3	PLOT AREA HARVESTED	0.00244
		325	