Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readible, or you suspect there are some problems, please let us know and we will correct that.



Yields of the Field Experiments 1974



Full Table of Content

74/R/BE/2 Insecticide and Beneficial Insects - Beans

74/*R/BE/2 Insecticide and Beneficial Insects - Beans*, Rothamsted Research (1975) Yields Of The Field Experiments 1974, pp 325 - 326 - DOI: https://doi.org/10.23637/ERADOC-1-119

74/R/BE/2

SPRING BEANS

INSECTICIDE AND BENEFICIAL INSECTS

Object: To study the effects of a range of rates of dimethoate on beneficial insects, particularly predators and parasites of aphids and the yield of field beans - Whittlocks.

Sponsor: J.H. Stevenson.

Design: 5 randomised blocks of 6 plots.

Whole plot dimensions: 21.3 x 22.9. Area harvested: 0.00439.

Treutments: Rates of dimethoate (g a.i.)

DIMETH

None 26	0 26
52	52
105	105
210	210
420	420

NOTES: (1) Treatments were applied on 8 July in 390 1.

(2) The application of treatments was deliberately delayed to allow aphid infestations and associated parasites and predators to establish. Weather conditions then delayed spraying until 8 July, by which time aphids had caused appreciable damage to all plots.

Basal applications: Manures: Chalk at 7.5 tonnes. (0:14:28) at 400 kg placement drilled. Weedkillers: Paraquat at 0.56 kg ion in 220 1, and simulate at 1.1 kg in 220 1.

Seed: Minor, sown at 220 kg.

Cultivations, etc.:- Chalk applied: 6 Sept, 1973. Paraquat applied: 24 Cct. Chisel ploughed twice: 6 Dec and 10 Dec. Spring-time cultivated: 23 Mar, 1974. Rotary harrowed, seed sown and spring-time cultivated: 27 Mar. Simazine applied: 5 Apr. Combine harvested: 30 Sept. Previous crops: Winter wheat 1972, barley 1973.

325

74/R/BE/2

NDTES: (1) Insect populations were sampled by sweep nets and water traps, aphid (Aphis fabae) counts were made. (2) There was evidence of a linear fertility trend across the

site and yields adjusted for trend are presented.

Standard error per plot.

Grain, tonnes/hectare: 0.277 or 15.3% (19 d.f.)

DTLCATT

TABLES OF MEANS

GRAIN: TONNES/HECTARE.

		DI	N 21 H			7		
0	26	52	105	210	1420	Mean		
1.36	1.39	1.64	1.89	2.49	2.09	1.81		

STANDARD EFFOR OF DIFFERENCES

DIMETH

0.176

Mean D.M.% 69.7

326