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72/R/CS/102 Nematicides and *Ditylenchus* - Onions

Rothamsted Research

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72/R/CS/102

NEMATOCIDES AND DITYLENCHUS

Object: To study the effects of three nematocides at three rates on yields of onions and incidence of *Ditylenchus dipsaci* - Great Field II.

Sponsor: A.G. Whitehead.

The first year, onions.

Design: 3 blocks of 9 plots, randomisation restricted, plus one nil plot per block.

Whole plot dimensions: 1.52 x 6.10. Area harvested: 0.00056.

Treatments:

None (0) and:-

Nematicides	Rates in kg a.i.
Aldicarb (A)	1.57 (1), 3.14 (2), 6.27 (4)
CGA10576 (C)	1.12 (1), 2.24 (2), 4.48 (4)
Du Pont 1410 (D)	1.46 (1), 2.92 (2), 5.83 (4)

Nematicides were applied in the rows at sowing.

Basal applications: 1880 kg (13:13:20). Weedkillers: Propachlor ('Ramrod' at 6.7 kg). Methazole ('Paxilon' at 2.8 kg).

Seed: Robusta, dressed dieldrin.

Cultivations, etc.: Ploughed: 23 - 27 Sept, 1971. NPK applied: 13 Mar, 1972. Treatments applied, seed drilled, propachlor applied: 21 Apr. Methazole applied: 26 June. Hand weeded: 6 July. Lifted: 29 Sept. Previous crops: Barley 1970, spring beans 1971.

NOTES: (1) Soil samples were taken before treatments were applied and after harvest for counts of *Ditylenchus dipsaci*.
(2) Onions were stored during the winter for observation of incidence of rots.

Standard error per plot.

Weight, tonnes/hectare: 3.42 or 9.0% (18 d.f.)

72/R/CS/102

TABLES OF MEANS

WEIGHT OF SOUND ONIONS: TONNES/HECTARE

	RATE			Mean
	1	2	4	
NEMATICIDE				
A	42.3	39.2	39.3	40.3
C	31.6	41.7	34.3	35.9
D	39.2	41.6	40.4	40.4
Mean	37.7	40.8	38.0	38.8

0 31.8

Grand mean: 38.1

STANDARD ERRORS OF DIFFERENCES

NEMATICIDE	RATE	NEMATICIDE RATE & 0
1.61	1.61	2.79