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Yields of the Field Experiments 1975

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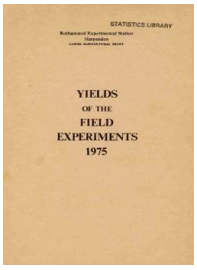

75/ R/ON/1 - Stem-eelworm Control - Onions

Rothamsted Research

Rothamsted Research (1976) *75/ R/ON/1 - Stem-eelworm Control - Onions ;* Yields Of The Field Experiments 1975, pp 375 - 376 **- DOI: https://doi.org/10.23637/ERADOC-1-141**

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75/R/ON/1

WINTER AND SPRING ONIONS

STEM-EELWORM CONTROL

Object: To study the effects of rates and times of applying aldicarb on control of stem-eelworm (Ditylenchus dipsaci) and on the yield of winter onions. Spring-sown onions treated with aldicarb are also included - Great Field II.

Sponsor: A.G. Whitehead.

Design: 3 randomised blocks of 10 plots.

Whole plot dimensions: 1.22 x 5.18.

Treatments: Aldicarb (kg):-

	ALDICARB
To winter onions:	
None (2 plots/block)	0
1 in seedbed, 1 in spring	1+1
2 in seedbed, none in spring	2
2 in seedbed, 2 in spring	2+2
4 in seedbed, none in spring	4
4 in seedbed, 4 in spring	4+4
8 in seedbed, none in spring	8
To spring onions:	
4 kg in seedbed (2 plots/block)	

NOTE: Yields were not taken from the spring-sown onions.

Standard applications: Manures: Autumn-sown plots: (13:13:20) at 1040 kg, 'Nitro-Chalk' at 450 kg. Spring-sown plots: (13:13:20) at 1880 kg. Weedkiller: Propachlor ('Ramrod' at 6.7 kg in 450 l).

Seed: Winter: Imai Early Yellow, dressed with dieldrin, sown at 6.7 kg.
Spring: Robusta, dressed with dieldrin, sown at 6.7 kg.

Cultivations, etc.:- Ploughed: 22 Aug, 1974. Autumn-sown plots: rotary cultivated twice, NPK and aldicarb applied, seed sown: 22 Aug. Weedkiller applied: 27 Aug. N applied: 14 Feb, 1975. Aldicarb applied: 21 Apr. Lifted: 4 July. Spring-sown plots: Weedkiller applied: 27 Aug, 1974. Rotary cultivated, NPK and aldicarb applied and seed sown: 21 Apr, 1975. Previous crops: Onions 1973, barley 1974.

NOTES: (1) Soil samples were taken from winter-sown plots on 23 July for counts of Ditylenchus dipsaci.
(2) Onions were stored until 3 October to determine loss of weight and percentage of bulbs rotting after harvest.

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75/R/ON/1

SALEABLE ONIONS TONNES/HECTARE

*** TABLES OF MEANS ***

ALDICARB	0	1+1	2	2+2	4	4+4	8	MEAN
	13.2	18.6	18.8	19.3	18.5	19.2	19.3	17.5

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

TABLE	ALDICARB
SED	2.74(1)
	3.17(2)

(1) 0 V ANY OF REMAINDER
(2) ANY OF REMAINDER

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

STRATUM	DF	SE	CV%
BLOCK.WP	15	3.88	22.1

PLOT AREA HARVESTED 0.00063

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