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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>

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.

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