

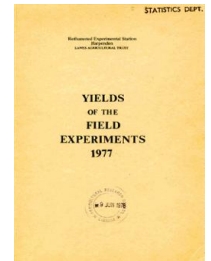
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## Yields of the Field Experiments 1977

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### 77/R/CS/176 Stem-eelworm Control - Onions

#### Rothamsted Research

Rothamsted Research (1978) *77/R/CS/176 Stem-eelworm Control - Onions ; Yields Of The Field Experiments 1977*, pp 216 - 217 - DOI: <https://doi.org/10.23637/ERADOC-1-29>

77/R/CS/176

STEM-EELWORM CONTROL

Object: To study the effects of dates of sowing and of rates and times of applying aldicarb on control of stem-eelworm (*Ditylenchus dipsaci*) and on the yield of winter onions - Great Field II.

Sponsor: A.G. Whitehead.

The third year, winter onions.

For previous years see 75/R/ON/1 and 76/R/CS/176.

Design: 3 randomised blocks of 10 plots with SOW DATE on blocks.

Whole plot dimensions: 1.22 x 5.18.

Treatments: All combinations of:-

Blocks

|             |                                                  |
|-------------|--------------------------------------------------|
| 1. SOW DATE | Dates of sowing (uniform in two previous years): |
| 2 AUG       | 2 August, 1976                                   |
| 18 AUG      | 18 August                                        |
| 2 SEPT      | 2 September                                      |

Plots

|             |                                                                                              |
|-------------|----------------------------------------------------------------------------------------------|
| 2. ALDICARB | Aldicarb (kg) (cumulative to 1975 and 1976 except as stated):                                |
| 0           | None (duplicated)                                                                            |
| 1 + 1       | 1 in seedbed, 1 in spring                                                                    |
| 2           | 2 in seedbed, none in spring                                                                 |
| 2 + 2       | 2 in seedbed, 2 in spring                                                                    |
| 4           | 4 in seedbed, none in spring                                                                 |
| 4 + 4       | 4 in seedbed, 4 in spring                                                                    |
| 8           | 8 in seedbed, none in spring                                                                 |
| (4S) 0      | 4 in seedbed in 1975 to spring-sown onions, none to winter onions 1976 and 1977 (duplicated) |

NOTE: Spring aldicarb applied on 13 Apr, 1977.

Basal applications: Manures: (13:13:20) at 1040 kg. 'Nitro-Chalk' at 450 kg in winter. 'Nitro-Chalk' at 250 kg in spring. Irrigation: 36 mm to first sowing, 18 mm to second sowing.

Seed: Imai Early Yellow, sown at 6.7 kg.

Cultivations, etc.: - Deep-tine cultivated, rotary cultivated, NPK applied, rotary cultivated, rolled and hand raked for first sowing: 2 Aug, 1976. These plots irrigated with 9 mm on each of four occasions: 3 Aug, 10 Aug, 16 Aug, 24 Aug. Deep-tine cultivated, rotary cultivated, NPK applied, rotary cultivated, rolled and hand raked for second sowing: 18 Aug. These plots irrigated with 9 mm on each of two occasions: 19 Aug, 24 Aug. Deep-tine cultivated, rotary cultivated, NPK applied, rotary cultivated, rolled and hand raked for third sowing: 2 Sept. Winter N applied: 4 Jan, 1977. Spring N applied: 8 Mar. Lifted: 21 July.

77/R/CS/176

- NOTES: (1) Plots were hand weeded.  
 (2) Soil samples were taken for counts of *Ditylenchus dipsaci*.  
 (3) Because of the wide discrepancies in yield, means for plots receiving and not receiving aldicarb in spring are presented separately.

# SALEABLE ONIONS TONNES/HECTARE

## \*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

### ALDICARB APPLIED IN SPRING

| SOW DATE<br>ALDICARB | 2 AUG | 18 AUG | 2 SEPT | MEAN |
|----------------------|-------|--------|--------|------|
| 1+1                  | 51.0  | 42.4   | 31.3   | 41.6 |
| 2+2                  | 41.8  | 44.3   | 33.9   | 40.0 |
| 4+4                  | 32.6  | 43.7   | 25.6   | 34.0 |
| MEAN                 | 41.8  | 43.5   | 30.3   | 38.5 |

### ALDICARB NOT APPLIED IN SPRING

| SOW DATE<br>ALDICARB | 2 AUG | 18 AUG | 2 SEPT | MEAN |
|----------------------|-------|--------|--------|------|
| 0                    | 18.0  | 13.8   | 6.6    | 12.8 |
| 2                    | 4.4   | 2.8    | 0.0    | 2.4  |
| 4                    | 10.8  | 4.7    | 16.1   | 10.6 |
| 8                    | 9.2   | 12.0   | 11.1   | 10.8 |
| (4S)0                | 8.1   | 0.2    | 0.8    | 3.0  |
| MEAN                 | 10.9  | 6.8    | 6.0    | 7.9  |

PLOT AREA HARVESTED 0.00032