

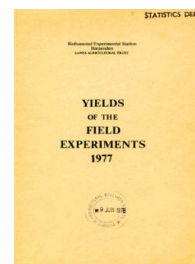
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## Yields of the Field Experiments 1977

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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	2 AUG	18 AUG	2 SEPT	MEAN
ALDICARB				
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	2 AUG	18 AUG	2 SEPT	MEAN
ALDICARB				
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