

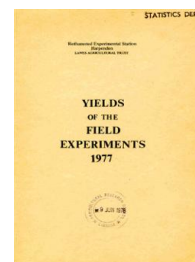
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1977

[Full Table of Content](#)



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 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 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