

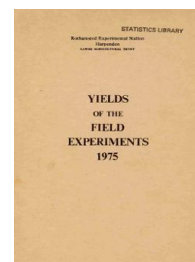
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Yields of the Field Experiments 1975

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75/ R/CS/127 - Single & Divided Applications of Aldicarb - Onions

Rothamsted Research

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75/R/CS/127

SPRING ONIONS

SINGLE AND DIVIDED APPLICATIONS OF ALDICARB

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

Sponsor: A.G. Whitehead.

The third year, spring onions.

For previous years see 73-74/R/CS/127.

Design: 2 randomised blocks of 12 plots.

Whole plot dimensions: 6.09 x 1.52.

Treatments: All combinations of:-

1. Residues of aldicarb applied 1974 (kg):	ALDICARB(74)
None	0.0
2.5	2.5
2. Rates of aldicarb applied 1975 (kg):	ALDICARB(75)
2.5	2.5
5.0	5.0
10.0	10.0
3. Times of applying aldicarb 1975:	ALDTIME(75)
All in April to seedbed (24 Apr)	APRIL
Half in April, half on 16 July	APR/JULY

Basal applications: Manures: (13:13:20) at 1880 kg. Weedkillers: Propachlor ('Ramrod' at 6.7 kg in 450 l), Pyrazone ('Alicepr' at 4.5 kg in 450 gall).

Seed: Robusta, dressed with dieldrin, sown at 6.7 kg.

Cultivations, etc.:- NPK applied, rotary cultivated, seed sown, propachlor applied: 24 Apr, 1975. Pyrazone applied: 18 June. Lifted: 24 Sept.

- NOTES: (1) Soil samples were taken in May and after harvest for counts of *Ditylenchus dipsaci*.
- (2) One plot ALDICARB(74) 2.5
 ALDICARB(75) 10.0
 ALDTIME(75) APRIL
was not completely harvested. An estimated value has been used in the analysis.
- (3) There was evidence of a linear trend across the site and yields adjusted for this trend are presented.

75/R/CS/127

TOTAL ONIONS TONNES/HECTARE

*** TABLES OF MEANS ***

ALDICARB(75)	2.5	5.0	10.0	MEAN	
ALDICARB(74)					
0.0	21.8	21.3	20.9	21.3	
2.5	21.2	19.0	20.2	20.2	
MEAN	21.5	20.1	20.5	20.7	

ALD TIME(75)	APRIL	APR/JULY	MEAN
ALDICARB(74)			
0.0	21.8	20.8	21.3
2.5	20.1	20.2	20.2
MEAN	20.9	20.5	20.7

ALD TIME(75)	APRIL	APR/JULY	MEAN
ALDICARB(75)			
2.5	22.4	20.6	21.5
5.0	19.6	20.6	20.1
10.0	20.7	20.3	20.5
MEAN	20.9	20.5	20.7

ALDICARB(75)	2.5	5.0	10.0
ALD TIME(75)	APRIL	APR/JULY	APRIL
ALDICARB(74)			APR/JULY
0.0	22.8	20.9	21.7
2.5	22.1	20.3	17.6
			20.8
			20.5
			21.0
			20.8
			19.9

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

TABLE	ALDICARB(74)	ALDICARB(75)	ALD TIME(75)	ALDICARB(74)
				ALDICARB(75)
SED	0.60	0.73	0.59	1.04

TABLE	ALDICARB(74)	ALDICARB(75)	ALDICARB(74)
	ALD TIME(75)	ALD TIME(75)	ALDICARB(75)
			ALD TIME(75)
SED	0.34	1.06	1.48

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

STRATUM	DF	SE	CV%
BLOCK.WP	9	1.44	7.0

PLOT AREA HARVESTED 0.00046