ROTHAMSTED RESEARCH

Yields of the Field Experiments 1975

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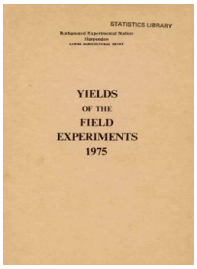

75/ R/CS/127 - Single & Divided Applications of Aldicarb - Onions

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 ('Alicep' 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.

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75/R/CS/127

TOTAL ONIONS TONNES/HECTARE

*** TABLES OF MEANS ***

ALDICARB(75) ALDICARB(74)	2.5	5.0	10.0	MEAN
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

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

ALDTIME(75) ALDICARB(75)	APRIL	APR/JULY	MEAN
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	
ALDTIME(75)	APRIL	APR/JULY	APRIL	APR/JULY	APRIL	APR/JULY
ALDICARB(74)						
0.0	22.8	20.9	21.7	20.8	21.0	20.8
2.5	22.1	20.3	17.6	20.5	20.5	19.9

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

TABLE	ALDICARB(74)	ALDICARB(75)	ALDTIME(75)	ALDICARB(74) ALDICARB(75)
SED	0.60	0.73	0.59	1.04

TABLE	ALDICARB(74) ALDTIME(75)	ALDICARB(75) ALDTIME(75)	ALDICARB(74) ALDICARB(75) ALDTIME(75)
SED	0.84	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

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