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77/R/CS/196 Single and Divided Applications of Aldicarb - Onions

Rothamsted Research

Rothamsted Research (1978) *77/R/CS/196 Single and Divided Applications of Aldicarb - Onions ; Yields Of The Field Experiments 1977*, pp 258 - 259 - DOI:
<https://doi.org/10.23637/ERADOC-1-29>

77/R/CS/196

SINGLE AND DIVIDED APPLICATIONS OF ALDICARB

Object: To study the effects of single and divided applications of aldicarb on control of stem-eelworm (*Ditylenchus dipsaci*) and on the yield of spring-sown onions - Gt. Field I.

Sponsor: A.G. Whitehead.

The second year, spring-sown onions.

For previous year see 76/R/ON/1.

Design: 4 randomised blocks of 7 plots.

Whole plot dimensions: 1.52 x 6.10.

Treatments cumulative to 1976: All combinations of:-

1. ALD RATE Rates of aldicarb (kg):

1.9
3.8
7.6

2. ALD TIME Times of applying aldicarb:

SINGLE All to seedbed (10 Mar)
DIVIDED Half to seedbed, half in June (10 Mar, 9 June)

EXTRA plus one extra treatment

NONE No aldicarb

Basal applications: Manures: (13:13:20) at 1880 kg. Weedkillers: Propachlor ('Ramrod' at 6.7 kg in 400 l). Pyrazone with chlorbufam ('Alice' at 4.5 kg i.n 400 l).

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

Cultivations, etc.: - Ploughed: 18 Sept, 1976. NPK applied: 9 Mar, 1977.
Power harrowed and seed sown: 10 Mar. 'Ramrod' applied: 18 Mar. 'Alice' applied: 9 June. Lifted: 17 Oct.

NOTES: (1) Soil samples were taken for counts of *Ditylenchus dipsaci*.

(2) EXTRA NONE: All plots were destroyed by stem nematodes.

77/R/CS/196

HEALTHY ONIONS TONNES/HECTARE

***** TABLES OF MEANS *****

ALD TIME ALD RATE	SINGLE	DIVIDED	MEAN
1.9	37.1	37.3	37.2
3.8	39.7	44.3	42.0
7.6	36.5	40.5	38.5
MEAN	37.7	40.7	39.2

EXTRA NONE 0.0

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

TABLE	ALD RATE	ALD TIME	ALD RATE ALD TIME
SED	2.66	2.17	3.77

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

STRATUM	DF	SE	CV%
BLOCK.WP	15	5.33	13.6
PLOT AREA HARVESTED	0.00046		