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Yields of the Field Experiments 1974

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74/R/CS/127 Ridging, Aldicarb and *Ditylenchus* - Onions

74/R/CS/127 *Ridging, Aldicarb and Ditylenchus - Onions*, Rothamsted Research (1975) Yields Of The Field Experiments 1974, pp 246 - 247 - DOI: <https://doi.org/10.23637/ERADOC-1-119>

74/R/CS/127

RIDGING, ALDICARB AND DITYLENCHUS

Object: To study the effects of ridging and aldicarb on yields of onions and incidence of *Ditylenchus dipsaci* - Great Field II.

Sponsor: A.G. Whitehead.

The second year, onions.

For previous year see 73/R/CS/127.

Design: 6 randomised blocks of 2 plots split into 2.

Whole plot dimensions: 7.62 x 3.05. Sub plot area harvested: 0.00108.

Treatments: Cumulative on those in 1973: All combinations of:-

Whole plots: 1. Sowing method:		SOWING
	On the flat	Flat
	On ridges	Ridge
Sub plots: 2. Aldicarb (kg):		ALDICARB
	None	0.0
	2.4	2.4

Basal applications: Manures: (13:13:20) at 1880 kg. Weedkiller: Propachlor ('Ramrod' at 6.7 kg in 450 l).

Seed: Robusta, fumigated with methyl bromide, sown at 6.7 kg.

Cultivations, etc.: - Ploughed: 17 Dec, 1973. NPK applied, rotary cultivated twice, ridged, seed sown, aldicarb and propachlor applied: 5 Apr, 1974. Hand weeded: 4 June, 4 July. Lifted by hand: 17 Sept.

- NOTES: (1) Soil samples were taken before applying aldicarb and after harvest for counts of *Ditylenchus dipsaci*.
(2) Three plots, treatment SOWING - Ridge, ALDICARB - 0.0 and 2.4, SOWING - Flat, ALDICARB - 0.0 were incorrectly treated in 1973 and 1974. Estimated values were used in the analysis
(3) Many seedlings died from drought resulting in an uneven plant.
(4) The yields of the plots not given aldicarb were very small because of soil borne pathogens and were therefore analysed separately from the others. The standard errors for the former have not been shown.

74/R/CS/127

Standard error per sub plot. ALDICARB 2.4 only.
Sound onions, tonnes/hectare: 1.68 or 9.1% (4 d.f.)

TABLES OF MEANS

SOUND ONIONS: TONNES/HECTARE

SEWING

	Flat	Ridge	Mean
ALDICARB			
0.0	4.2	2.6	3.4
2.4	20.5	16.3	18.4

STANDARD ERROR OF DIFFERENCES. ALDICARB 2.4 only

SEWING

0.97