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73/R/CS/127 - Ridging, Aldicarb & *Ditylenchus* - Onions

Rothamsted Research

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73/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* (see also 73/R/CS/102) - Great Field II.

Sponsor: A.G. Whitehead.

The first year, onions.

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

Whole plot dimensions: 7.62 x 3.05. Sub plot area harvested: 0.00058.

Treatments: 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
5.0		5.0

Basal applications: Manures: (13:13:20) at 1900 kg. Weedkillers: Propachlor ('Ramrod' at 6.7 kg), pyrazon with chlorbufam ('Alice' at 4.5 kg in 450 l).

Seed: Robusta, fumigated with methyl bromide.

Cultivations, etc.: Ploughed: 30 Nov, 1972. NPK applied: 26 Mar, 1973. Power harrowed: 27 Mar. Seed sown, aldicarb and propachlor applied: 28 Mar. Pyrazon with chlorbufam applied: 24 May. Hand weeded: 30 May, 5, 11 June and 4 July. Lifted: 3 Sept. Previous crops: Spring beans 1971, winter wheat 1972.

- NOTES: (1) Soil samples were taken before applying aldicarb and after harvest for counts of *Ditylenchus dipsaci*.
(2) Onions were allowed to dry in the field and stored during the winter for observation of incidence of rots.

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- NOTES: (3) 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
- (4) One plot treatment SOWING - Flat, ALDICARB - 0.0 was incorrectly treated. An estimated value was used in the analysis.

Standard error per sub plot. Plots given ALDICARB 5.0
Sound onions, tonnes/hectare: 2.25 or 4.6% (5 d.f.)

TABLES OF MEANS

SOUND ONIONS: TONNES/HECTARE

SOWING

	Flat	Ridge	Mean
ALDICARB			
0.0	4.0	0.8	2.4
5.0	50.5	46.5	48.5

STANDARD ERRORS OF DIFFERENCES. ALDICARB 5.0 only

SOWING

1.30