

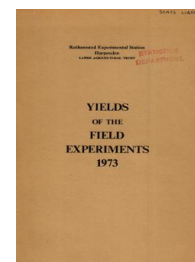
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1973

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1974) 73/R/CS/127 - *Ridging, Aldicarb & Ditylenchus - Onions* ; Yields Of The Field Experiments 1973, pp 290 - 291 - DOI: <https://doi.org/10.23637/ERADOC-1-98>

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.

73/R/CS/127

- 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