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# Yields of the Field Experiments 1973



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## 73/R/CS/102 - Nematicides & Ditylenchus - Onions

#### **Rothamsted Research**

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## 73/R/CS/102

#### NEMATICIDES AND DITYLENCHUS

Object: To study direct and residual effects of nematicides on yields of onions and incidence of Ditylenchus dipsaci (see also 73/R/CS/127) - Great Field II.

Sponsor: A.G. Whitehead.

The second year, onions.

For previous year see 72/R/CS/102(t).

Design: 3 blocks of 10 plots split systematically into half and quarter plots.

Whole plot dimensions: 1.52 x 6.10. Area harvested: 0.00012.

Treat	men	t.g t
TTCC	men	

Whole plots:	1. Nematicide and	i rate (kg a.i.) 1972	NEM1972
	None		None
	Aldicarb	1.57	Aldcarbl
	Aldicarb	3.14	Aldcarb2
	Aldicarb	6.28	Aldcarb4
	CGA V10576	1.12	CGAL
	CGA V10576	2.24	CGA2
	CGA V10576	4.48	CGA4
	DuPont V1410	1.46	Dupont1
	DuPont V1410	2.92	Dupont2
	DuPont V1410	5.84	Dupont4
Strips of Hal	f plots: 2. Sowin	ng method 1973:	SOWING
	On the flat	2,131	Flat
	On ridges		Ridge
Strips of Qua	rter plots: 3. No	ematicide 1973:	NEM1973
	None		None
	Aldicarb at	5 kg	Aldicarb

Basal applications: Manures: (13:13:20) at 1900 kg. Weedkillers: Propachlor ('Ramrod' at 6.7 kg), pyrazon with chlorbufam ('Alicep' at 4.5 kg in 450 1).

Seed: Robusta, fumigated with methyl bromide.

## 73/R/CS/102

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.

NOTES: 1. Onions were allowed to dry in the field and stored during the winter for observations of incidence of rots.

 The yields of the NEM1973 None plots were poor and very variable. Separate analyses were made for NEM1973 None and NEM1973 Aldicarb plots and standard errors are presented for the latter only.

 Five plots SUWING - Flat, NEM1973 - None, NEM1972 - CGA1, Aldcarb2, CGA2, Dupontl, CGA4 received the incorrect treatment. Estimated values were used in the analysis.

Standard errors per plot. Sound onions: tonnes/hectare:
NEM1973 Aldicarb only
Whole plot: 4.62 or 8.9% (18 d.f.)
Half plot: 4.89 or 9.4% (20 d.f.)

## 73/R/CS/102

### TABLES OF MEANS

SOUND ONIONS: TOINES/HECTARE

NEML973 SOWING	Flat	ne Ridge	Lean	Aldi Flat	.ce <b>rb</b> Ri.dge	Menn
HEW1972						
None Aldearo1 Aldearo2 Aldearo4 CGA1 CGA2 CGA4 Depont1 Depont2 Dupont4	15.0 1.0 34.4 2.2 2.2 9.2 27.9 26.9 10.2 13.4	17.3 3.3 31.6 14.2 0.7 21.1 9.6 26.7 20.3 20.2	16.1 2.1 33.0 8.2 1.4 15.1 18.8 26.8 15.2 16.8	49.0 56.0 58.3 49.7 58.3 55.9 53.8 57.9 54.3 52.7	49.0 54.7 47.5 52.2 53.8 57.5 46.9 47.1 46.0 41.5	49.0 55.3 52.9 51.0 56.1 56.7 50.3 52.5 50.1 47.1
Mean	14.2	16.5	15.4	54.6	49.6	52.1

Grand Hean 34.0

STANDARD ERRORS OF DIFFERENCES NEM1973 Aldicaro only

NEM1972 SOWING NEM1972 SOWING

3.77 1.26 4.71

Except when comparing means with same level of NEM1972 3.99