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# Yields of the Field Experiments 1987

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## 87/R/RA/2 Seed Rates and Row Spacings - W. Oilseed Rape

### Rothamsted Research

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87/R/RA/2

WINTER OILSEED RAPE

SEED RATES AND ROW SPACINGS

Object: To compare c.v. Ariana on a range of row-widths and seed rates - Great Knott II.

Sponsor: D.P. Yeoman.

Design: 3 randomised blocks of 11 plots.

Whole plot dimensions: 3.0 x 15.0.

Treatments: All combinations of:-

1. SEEDRATE            Seed rates:  
4 KG  
6 KG  
8 KG
2. ROWSPACE           Row spacings:  
17.5 CM  
35 CM  
52.5 CM

plus two extra treatments, sown at 2 kg seed rate:-

- | EXTRA     | Row spacings: |
|-----------|---------------|
| 2 KG 35   | 35 cm         |
| 2 KG 52.5 | 52.5 cm       |

Basal applications: Manures: 'Nitram' at 140 kg and later at 720 kg. Weedkillers: Sodium trichloroacetate at 16 kg in 200 l. Clopyralid and proyzamide (as 'Matrikerb' at 1.6 kg) in 500 l. Fungicides: Prochloraz at 0.50 kg in 200 l. Iprodione at 0.50 kg in 200 l. Insecticides: Azinphos methyl at 0.40 kg and demeton-S-methyl sulphone at 0.12 kg in 300 l. Triazophos at 0.42 l in 200 l. Bird repellent: 'Hoppit' at 3.0 l in 220 l. Desiccant: Diquat at 0.60 kg ion with a wetting agent ('Enhance' at 0.50 l) in 500 l.

Seed: Ariana, dressed iprodione, gamma HCH and captan.

Cultivations, etc.: - Heavy spring-tine cultivated, cultivated with rotary grubber: 12 Aug, 1986. First N applied: 15 Aug. Rotary harrowed: 31 Aug. Sodium trichloroacetate applied, harrowed: 1 Sept. Seed sown: 3 Sept. Remaining weedkillers applied: 20 Nov. Bird repellent applied: 12 Dec. Second N applied: 18 Feb, 1987. Prochloraz applied: 22 Apr. Azinphos methyl and demeton-S-methyl sulphone applied: 29 Apr. Iprodione and triazophos applied: 15 June. Desiccant with wetting agent applied: 28 July. Combine harvested: 5 Aug. Previous crops: S. wheat 1985, w. barley 1986.

NOTE: Plant counts were made at establishment and again in spring.

87/R/RA/2

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

\*\*\*\*\* Tables of means \*\*\*\*\*

ROWSPACE	17.5 CM	35 CM	52.5 CM	Mean
SEEDRATE				
4 KG	3.45	3.36	3.48	3.43
6 KG	3.17	3.13	2.90	3.07
8 KG	3.02	3.02	2.94	2.99
Mean	3.21	3.17	3.11	3.16

EXTRA	2 KG	35	2 KG	52.5	Mean
	3.61			3.39	3.50

GRAND MEAN 3.22

\*\*\* Standard errors of differences of means \*\*\*

Table	EXTRA	SEEDRATE	ROWSPACE	SEEDRATE ROWSPACE
s.e.d.	0.229	0.132	0.132	0.229

\*\*\*\*\* Stratum standard errors and coefficients of variation \*\*\*\*\*

Stratum	d.f.	s.e.	cv%
BLOCK.WP	20	0.280	8.7

GRAIN MEAN DM% 71.3

PLOT AREA HARVESTED 0.00345