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## Yields of the Field Experiments 1989

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### 89/R/RA/2 Seed Rates and Row Spacing - W. Oilseed Rape

#### Rothamsted Research

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89/R/RA/2

WINTER OILSEED RAPE

SEED RATES AND ROW SPACINGS

**Object:** To study the effects of a range of row-widths and seed rates on the growth and yield of w. oilseed rape - Appletree.

**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:** Manure: 'Nitram' at 440 kg. Weedkillers: Metazachlor at 1.2 kg with fluzafop-p-butyl at 0.19 kg and a wetting agent ('Enhance' at 0.26 l) in 260 l. Desiccant: Diquat at 0.60 kg ion with a wetting agent ('Agral' at 0.50 l) in 520 l.

**Seed:** Ariana, dressed gamma HCH, thiram and fenpropimorph.

**Cultivations, etc.:-** Rotary cultivated: 22 Aug, 1988. Cultivated by rotary grubber: 7 Sept. Rotary harrowed, seed sown: 8 Sept. Weedkillers with wetting agent applied: 30 Sept. N applied: 14 Feb, 1989. Desiccant with wetting agent applied: 11 July. Combine harvested: 18 July. Previous crops: W. wheat 1987, w. barley 1988.

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

89/R/RA/2

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

ROWSPACE	17.5 CM	35 CM	52.5 CM	Mean
<b>SEEDRATE</b>				
4 KG	1.54	1.24	1.47	1.42
6 KG	1.65	1.40	1.88	1.64
8 KG	1.41	1.34	1.96	1.57
Mean	1.54	1.33	1.77	1.54
<b>EXTRA</b>	2 KG 35	2 KG 52.5	Mean	
	1.05	1.58	1.32	
GRAND MEAN	1.50			

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

SEEDRATE	ROWSPACE	SEEDRATE ROWSPACE & EXTRA
0.130	0.130	0.225

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	20	0.276	18.4
GRAIN MEAN DM%	76.4		
PLOT AREA HARVESTED	0.00345		