

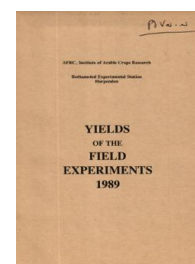
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89/R/RA/2 Seed Rates and Row Spacing - W. Oilseed Rape

Rothamsted Research

Rothamsted Research (1990) *89/R/RA/2 Seed Rates and Row Spacing - W. Oilseed Rape* ; Yields Of The Field Experiments 1989, pp 178 - 179 - DOI: <https://doi.org/10.23637/ERADOC-1-40>

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 fluazifop-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
SEEDRATE				
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
EXTRA	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		