

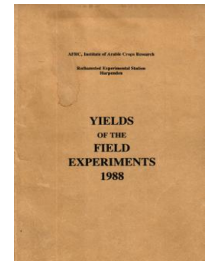
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88/R/RA/2 Seed Rates and Row Spacings - W. Oilseed Rape

Rothamsted Research

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88/R/RA/2

WINTER OILSEED RAPE

SEED RATES AND ROW SPACINGS

Object: To compare cv. Ariana on a range of row-widths and seed rates - Whittlocks.

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: Paraquat at 0.40 kg ion in 200 l. Metazachlor at 1.2 kg in 200 l. Insecticides: Azinphos methyl at 0.40 kg and demeton-s-methyl sulphone at 0.12 kg in 300 l. Desiccant: Diquat at 0.60 kg ion with a wetting agent ('Enhance' at 0.50 l) in 520 l.

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

Cultivations, etc.:- Paraquat applied: 8 Sept, 1987. First N applied, heavy spring-tine cultivated: 14 Sept. Rotary harrowed, seed sown: 15 Sept. Metazachlor applied: 1 Oct. Second N applied: 19 Feb, 1988. Insecticides applied: 18 Apr. Desiccant with wetting agent applied: 20 July. Combine harvested: 27 July. Previous crops: W. wheat 1986, w. barley 1987.

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

88/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	2.92	3.83	3.32	3.36
6 KG	3.64	3.16	3.52	3.44
8 KG	3.29	3.00	3.27	3.18
Mean	3.28	3.33	3.37	3.33

EXTRA	2 KG	35	2 KG	52.5	Mean
		3.45		3.97	3.71

GRAND MEAN 3.40

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

SEEDRATE	ROWSPACE	SEEDRATE ROWSPACE & EXTRA
0.206	0.206	0.356

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	20	0.436	12.8
MEAN DM%	72.2		
PLOT AREA HARVESTED	0.00345		