

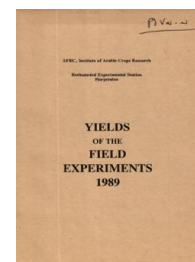
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## Yields of the Field Experiments 1989

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### 89/W/RA/1 Harvesting and Crop Structure - W. Oilseed Rape

#### Rothamsted Research

Rothamsted Research (1990) *89/W/RA/1 Harvesting and Crop Structure - W. Oilseed Rape* ; Yields Of The Field Experiments 1989, pp 176 - 177 - DOI: <https://doi.org/10.23637/ERADOC-1-40>

89/W/RA/1

**WINTER OILSEED RAPE**

**HARVESTING AND CROP STRUCTURE**

**Object:** To study the effects of seed rate and growth regulator on the yield and harvest losses of w. oilseed rape - Warren Field I.

**Sponsors:** R. Moffitt, C.J. Rawlinson.

**Design:** 3 randomised blocks of 4 plots split into 7 sub-plots.

**Whole plot dimensions:** 24.0 x 10.0.

**Treatments:** All combinations of:-

Whole plots

1. **SEEDRATE** Seed rates:

6 KG

16 KG

2. **GROW REG** Growth regulator applied 2 May, 1989:

NONE

None

BAS111

'BAS11106W' at 0.9 l in 250 l

**NOTE:** Yields and harvest losses were recorded for one sub-plot per plot using a conventional combine harvester. Additional subplots were included to test the performance of the Institute of Engineering Research stripping harvester. Harvest losses from this machine were recorded but not yields.

**Basal applications:** Manures: Magnesian limestone at 7.5 t. N at 100 kg as 'Nitram' twice. Weedkillers: Fluazifop-p-butyl at 0.19 kg in 220 l. Benazolin at 0.38 kg and clopyralid at 0.06 kg in 220 l. Insecticide: Alphacypermethrin at 0.02 kg in 220 l.

**Seed:** Ariana.

**Cultivations, etc.:-** Barley straw burnt: 30 Aug, 1988. Spike harrowed twice with crumbler attached, seed sown, rolled: 5 Sept. Fluazifop-p-butyl applied: 23 Nov. Benazolin and clopyralid applied: 12 Dec. N applied: 8 Mar, 1989 and 19 Apr. Insecticide applied: 27 May. Harvested: 14 Aug. Previous crops: W. barley 1987, s. barley 1988.

89/W/RA/1

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

GROW REG SEEDRATE	NONE	BAS111	Mean
6 KG	2.46	2.80	2.63
16 KG	2.49	2.42	2.45
Mean	2.48	2.61	2.54

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

SEEDRATE	GROW REG	SEEDRATE GROW REG
0.200	0.200	0.283

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	6	0.346	13.6
GRAIN MEAN DM%	89.2		
SUB PLOT AREA HARVESTED	0.00305		