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

Rothamsted Research

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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