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# Yields of the Field Experiments 1985

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## 85/R/RA/6 Growth Regulators - W. Oilseed Rape

### Rothamsted Research

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85/R/RA/6

WINTER OILSEED RAPE

GROWTH REGULATORS

Object: To study the effects of a range of materials on the control of fungi and on the growth and the yield of w. oilseed rape - Black Horse II.

Sponsors: C.J. Rawlinson, D.P. Yeoman.

Design: 3 randomised blocks of 7 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments:

| CHEMICAL | Chemicals:  |
|----------|---|
| NONE     | None  |
| BAS11100 | 'BAS 11100W' at 6.7 l                               |
| MEPIQUAT | Mepiquat chloride + ethephon (as 'Terpal' at 3.0 l) |
| MEP+PROP | Mepiquat chloride + ethephon + propiconazole        |
| PROPICON | Propiconazole at 0.12 kg                            |
| PROCHLOR | Prochloraz at 0.40 kg                               |
| TRIAPENT | Triapenthenol (as 'UK 140' at 0.7 kg)               |

NOTES: (1) Treatments were applied in 220 l on 17 Apr, 1985.

(2) Mepiquat chloride + ethephon were applied with a wetting agent ('Citowett' at 0.1 l).

Basal applications: Manures: (0:24:24) at 200 kg. 'Nitro-Chalk' (26% N) at 190 kg followed by 'Nitro-Chalk' (27.5% N) at 900 kg. Weedkillers: Propyzamide with clopyralid (as 'Matrikerb' at 1.6 kg) in 500 l. Benazolin ethyl ester at 0.30 kg with clopyralid at 0.05 kg in 200 l. Desiccant: Diquat at 0.60 kg ion with a wetting agent ('Agral' at 0.5 l) in 500 l.

Seed: Jet Neuf, seed dressed gamma HCH, thiram and fenpropimorph, sown at 8 kg.

Cultivations, etc.: - Discd twice: 31 July, 1984. PK applied: 8 Aug. First N applied: 10 Aug. Seed sown: 6 Sept. 'Matrikerb' applied: 30 Oct. Second N applied: 27 Feb, 1985. Benazolin ethyl ester with clopyralid applied: 6 Mar. Desiccant with wetter applied: 25 July. Combine harvested: 12 Aug. Previous crops: W. barley 1983 and 1984.

NOTE: Disease incidence and severity was assessed on four occasions between April and July. Plant height, internode length, branch number and length, growth stage, flowering and petal size measurements were made in May and July. Lodging was assessed in July. Seed shedding on plots was assessed from germinated grain after harvest.

85/R/RA/6

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

|          |      |          |          |          |          |          |          |    |
|----------|------|----------|----------|----------|----------|----------|----------|----|
| CHEMICAL | NONE | BAS11100 | MEPIQUAT | MEP+PROP | PROPICON | PROCHLOR | TRIAPENT | ME |
|          | 3.00 | 2.89     | 2.99     | 3.49     | 3.32     | 3.21     | 3.28     | 3. |

\*\*\*\*\* STANDARD ERRORS OF DIFFERENCES OF MEANS \*\*\*\*\*

|       |          |
|-------|----------|
| TABLE | CHEMICAL |
| ----- | -----    |
| SED   | 0.180    |

\*\*\*\*\* STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION \*\*\*\*\*

|          |    |       |     |
|----------|----|-------|-----|
| STRATUM  | DF | SE    | CV% |
| BLOCK.WP | 12 | 0.220 | 6.9 |

GRAIN MEAN DM% 87.7

PLOT AREA HARVESTED 0.00231