

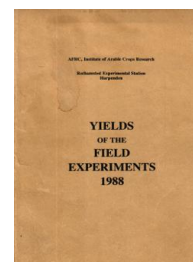
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# Yields of the Field Experiments 1988

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## 88/R/RA/12 Anti-feedants - S. Oilseed Rape

### Rothamsted Research

Rothamsted Research (1989) *88/R/RA/12 Anti-feedants - S. Oilseed Rape* ; Yields Of The Field Experiments 1988, pp 238 - 239 - DOI: <https://doi.org/10.23637/ERADOC-1-43>

88/R/RA/12

## SPRING OILSEED RAPE

### ANTI-FEEDANTS

**Object:** To study the effects of insect anti-feedants on pests of oilseed rape - Long Hoos V 7.

**Sponsors:** D.C. Griffiths, L.E. Smart.

**Design:** 4 randomised blocks of 6 plots.

**Whole plot dimensions:** 2.5 x 5.0.

#### Treatments:

**PESTCONT** Methods of insect pest control:

|          |                            |
|----------|----------------------------|
| NONE     | None                       |
| HCH TRI  | Gamma-HCH and triazophos   |
| AJUGA C  | Ajuga chamaeipytis extract |
| AJUGA R  | Ajuga remota extract       |
| HOP EXTR | Beta-acid extract of hops  |
| NEEM OIL | Neem oil                   |

- Notes:** (1) Gamma-HCH was applied at 0.53 kg on 14 June, 1988, triazophos at 0.42 kg on 12 July.
- (2) Remaining materials were applied on 14, 20, 29 June and 5, 12, 20 and 26 July. On each occasion Ajuga chamaeipytis extract was applied at a rate equivalent to the extract from 20 kg of fresh plant material, Ajuga remota from 5 kg of fresh plant material. The beta-acid extract of hops was applied at 1.0 l, neem oil at 0.10 l.
- (3) All treatments were applied in 10 l water.

**Basal applications:** Manures: (0:18:36) at 1040 kg. 'Nitro-Chalk' at 600 kg. Weedkiller: Clopyralid at 0.10 kg in 220 l. Desiccant: Diquat at 0.60 kg ion in 220 l, applied twice.

**NOTE:** The desiccant was repeated because of rain soon after the first application.

**Seed:** Topas, sown at 8 kg.

**Cultivations, etc.:-** PK applied: 30 Sept, 1987. Ploughed: 14 Dec. Rotary harrowed, seed sown, N applied, rolled: 18 Apr, 1988. Weedkiller applied: 14 June. Desiccant applied twice: 14 Sept. Combine harvested: 30 Sept. Previous crops: Fallow 1986, lupins 1987.

- NOTES:** (1) Pollen beetle, seed weevil and pod midge damage were assessed at intervals during the season.
- (2) Because of a combine malfunction yields from two plots were lost, with treatments NONE and HCH TRI. Estimated values were used in the analysis.

88/R/RA/12

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

| PESTCONT | NONE | HCH TRI | AJUGA C | AJUGA R HOP | EXTR NEEM OIL | Mean |
|----------|------|---------|---------|-------------|---------------|------|
|          | 1.14 | 1.22    | 0.98    | 1.00        | 1.11 1.12     | 1.10 |

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

PESTCONT  
0.076

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

| Stratum  | d.f. | s.e.  | cv% |
|----------|------|-------|-----|
| BLOCK.WP | 13   | 0.107 | 9.8 |

GRAIN MEAN DM% 83.5

PLOT AREA HARVESTED 0.00084