

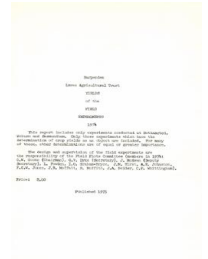
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RESEARCH

## Yields of the Field Experiments 1974

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### 74/R/B/13 Insecticide and Beneficial Insects - Barley

*74/R/B/13 Insecticide and Beneficial Insects - Barley*, Rothamsted Research (1975) Yields Of The Field Experiments 1974, pp 310 - 311 - DOI: <https://doi.org/10.23637/ERADOC-1-119>

74/R/B/13

BARLEY

INSECTICIDE AND BENEFICIAL INSECTS

Object: To study the effect of a range of rates of demeton-s-methyl on beneficial insects, particularly predators and parasites of aphids, and the yield of barley - Black Horse II.

Sponsor: J.H. Stevenson.

Design: 6 randomised blocks of 6 plots.

Whole plot dimensions: 25.6 x 27.4. Area harvested: 0.00520.

Treatments: Rates of demeton-s-methyl (g a.i.)  
applied on 8 July, 1974 in 390 l: DEMETON

|      |     |
|------|-----|
| None | 0   |
| 15   | 15  |
| 30   | 30  |
| 60   | 60  |
| 120  | 120 |
| 240  | 240 |

Basal applications: Manures: (20:14:14) at 490 kg combine drilled.

Weedkillers: TCA ('Tecane' at 34 kg in 220 l); dicamba with mecoprop and MCPA ('Tetralex Plus' at 7.0 l in 220 l).

Seed: Julia, dressed with ethirimol, sown at 160 kg.

Cultivations, etc.: TCA applied: 9 Nov, 1973. Rotary cultivated: 14 Nov. Deep-tine cultivated: 21 Nov. Spring-tine cultivated and seed sown: 28 Mar, 1974. 'Tetralex Plus' applied: 21 May. Combine harvested: 20 Aug. Previous crops: Barley 1972 and 1973.

NOTES: 1. Aphids were assessed visually, other insects were sampled by sweep netting and water traps throughout the season.  
2. There was evidence of a linear fertility trend across the site, and yields adjusted for trend are presented.

Standard error per plot.

Grain, tonnes/hectare: 0.269 or 5.5% (24 d.f.)

74/R/B/13

TABLES OF MEANS

GRAIN: TONNES/HECTARE

| DEMETON |      |      |      |      |      | Mean |
|---------|------|------|------|------|------|------|
| 0       | 15   | 30   | 60   | 120  | 240  |      |
| 4.77    | 5.11 | 4.68 | 5.16 | 4.76 | 4.71 | 4.87 |

STANDARD ERROR OF DIFFERENCES

DEMETON

0.158

Mean D.M.  $\frac{7}{8}$  83.0