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

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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.)

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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. \approx 83.0