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# Yields of the Field Experiments 1986

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## 86/R/CA/1 Anti-feedants - Cabbages

### Rothamsted Research

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86/R/CA/1

CABBAGES

ANTI-FEEDANTS

Object: To study the effects of anti-feedants on insect pests and on yields of cabbages - Long Hoos III 5.

Sponsor: D.C. Griffiths.

Design: 4 randomised blocks of 8 plots.

Whole plot dimensions: 2.4 x 5.0.

Treatments:

| CHEMICAL | Chemical foliar sprays:                        |
|----------|------------------------------------------------|
| NONE     | None (triplicated)                             |
| AJUGA EX | Ajuga extract at 0.20 kg                       |
| PIPERINE | Piperine at 0.20 kg                            |
| POLYGODI | Polygodial at 0.10 kg                          |
| E B FARN | Undecyl adduct of (E)-beta-farnesene at 1.0 kg |
| DELTAMET | Deltamethrin at 0.01 kg                        |

NOTE: Chemical treatments were applied ten times with an electrostatic sprayer in 10 l on 27 June, 1986, 3 July, 9 July, 8 Aug, 14 Aug, 20 Aug, 28 Aug, 5 Sept, 11 Sept and 21 Sept.

Basal applications: Manures: Muriate of potash at 520 kg. (10:10:15 + 4.5 Mg) at 2700 kg. Weedkillers: Paraquat at 0.84 kg ion in 220 l. Clopyralid at 0.10 kg in 220 l and on a second occasion at 0.20 kg in 220 l with the desmetryne. Desmetryne at 0.38 kg in 220 l and on a second occasion at 0.36 kg with the clopyralid.

Seed: Brunswick, sown at 8 kg, in rows 48 cm apart. Plants were thinned to 23 cm apart within the rows on 29 July.

Cultivations, etc.: - Muriate of potash applied: 11 Nov, 1985. Deep-tine cultivated: 19 Dec and again on 19 May, 1986. NPK Mg applied: 28 May. Spring-tine cultivated twice, seed sown, paraquat applied: 2 June. Clopyralid applied: 7 July. Desmetryne applied: 16 July. Clopyralid with desmetryne applied: 20 Aug. Harvested by hand: 26 Nov. Previous crops: S. barley 1984, potatoes 1985.

NOTE: Flea beetle and caterpillar damage were assessed on four occasions during the season.

86/R/CA/1

FRESH YIELD TONNES/HECTARE

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

| CHEMICAL | NONE | AJUGA | EX   | PIPERINE | POLYGODI | E B | FARN | DELTAMET | MEAN |
|----------|------|-------|------|----------|----------|-----|------|----------|------|
|          | 98.4 |       | 94.0 | 94.5     | 87.1     |     | 84.9 | 104.4    | 95.0 |

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

| TABLE | CHEMICAL                     |
|-------|------------------------------|
| SED   | 4.45 MIN REP<br>3.63 MAX-MIN |

|         | CHEMICAL                    |
|---------|-----------------------------|
| MAX-MIN | NONE V ANY OF THE REMAINDER |
| MIN REP | ANY OF THE REMAINDER        |

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

| STRATUM             | DF      | SE   | CV% |
|---------------------|---------|------|-----|
| BLOCK.WP            | 23      | 6.29 | 6.6 |
| PLOT AREA HARVESTED | 0.00072 |      |     |