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## Yields of the Field Experiments 1976

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### 76/R/WW/4 Sowing Dates and Insecticides - W. Wheat

#### Rothamsted Research

Rothamsted Research (1977) *76/R/WW/4 Sowing Dates and Insecticides - W. Wheat* ; Yields Of The Field Experiments 1976, pp 266 - 267 - DOI: <https://doi.org/10.23637/ERADOC-1-15>

76/B/WW/4

## WINTER WHEAT

### SOWING DATES AND INSECTICIDES

Object: To study the effects of dates of sowing and times of applying insecticides on the incidence of cereal aphids, barley yellow dwarf virus (BYDV) and yield of winter wheat - Great Knott I.

Sponsor: R.T. Plumb.

Design: 4 randomised blocks of 12 plots.

Whole plot dimensions: 6.40 x 22.9.

Treatments: All combinations of:-

1. SOW DATE      Dates of sowing:

|         |                   |
|---------|-------------------|
| 26 SEPT | 26 September 1975 |
| 20 OCT  | 20 October        |
| 24 NOV  | 24 November       |

2. INSECTICIDE(1)      Phorate granules to seedbed:

|         |                 |
|---------|-----------------|
| NONE    | None            |
| PHORATE | Phorate at 5 kg |

3. INSECTICIDE(2)      Menazon spray:

|         |                                                      |
|---------|------------------------------------------------------|
| NONE    | None                                                 |
| MENAZON | Menazon (0.7 l 'Saphi-Col' in 220 l on 14 May, 1976) |

Basal applications: (0:20:20) at 310 kg, combine drilled. 'Nitro-Chalk' at 380 kg. Weedkillers: Ioxynil at 0.53 kg with mecoprop at 1.6 kg (both as the potassium salt) in 220 l.

Seed: Cappelle, sown at 190 kg.

Cultivations, etc.: Ploughed: 7 Sept, 1975. Spring-tine cultivated twice: 17 Sept. Phorate applied to early-sown plots: 19 Sept. Power harrowed these plots only: 22 Sept. Early plots sown: 26 Sept. Phorate to middle-sown plots and these plots only rotary cultivated and sown: 20 Oct. Phorate to late-sown plots, rotary cultivated and sown: 24 Nov. N applied to all plots: 9 Apr, 1976. Weedkiller applied: 10 Apr. Combine harvested: 30 July. Previous crops: Barley 1974, beans 1975.

NOTE: Emergence counts were made. Aphids were counted on six occasions from May to July. Ladybirds were counted in June and tiller numbers in late July.

76/R/WW/4

GRAIN TONNES/HECTARE

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

| INSCDCDE(2) | NONE | MENAZON | MEAN |
|-------------|------|---------|------|
| INSCDCDE(1) |      |         |      |
| NONE        | 4.25 | 4.33    | 4.29 |
| PHORATE     | 4.55 | 4.52    | 4.53 |
| MEAN        | 4.40 | 4.42    | 4.41 |

| SOW DATE    | 26 SEPT | 20 OCT | 24 NOV | MEAN |
|-------------|---------|--------|--------|------|
| INSCDCDE(1) |         |        |        |      |
| NONE        | 4.30    | 4.73   | 3.84   | 4.29 |
| PHORATE     | 4.56    | 5.05   | 4.00   | 4.53 |
| MEAN        | 4.43    | 4.89   | 3.92   | 4.41 |

| SOW DATE    | 26 SEPT | 20 OCT | 24 NOV | MEAN |
|-------------|---------|--------|--------|------|
| INSCDCDE(2) |         |        |        |      |
| NONE        | 4.41    | 4.87   | 3.92   | 4.40 |
| MENAZON     | 4.44    | 4.91   | 3.92   | 4.42 |
| MEAN        | 4.43    | 4.89   | 3.92   | 4.41 |

| INSCDCDE(2) | NONE    |        |        | MENAZON |        |        |
|-------------|---------|--------|--------|---------|--------|--------|
| SOW DATE    | 26 SEPT | 20 OCT | 24 NOV | 26 SEPT | 20 OCT | 24 NOV |
| INSCDCDE(1) |         |        |        |         |        |        |
| NONE        | 4.23    | 4.67   | 3.86   | 4.36    | 4.79   | 3.83   |
| PHORATE     | 4.60    | 5.07   | 3.99   | 4.52    | 5.03   | 4.01   |

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

| TABLE | INSCDCDE(1) | INSCDCDE(2) | SOW DATE | INSCDCDE(1) |
|-------|-------------|-------------|----------|-------------|
|       |             |             |          | INSCDCDE(2) |
| SED   | 0.054       | 0.054       | 0.066    | 0.076       |

| TABLE | INSCDCDE(1) | INSCDCDE(2) | INSCDCDE(1) |
|-------|-------------|-------------|-------------|
|       | SOW DATE    | SOW DATE    | INSCDCDE(2) |
|       |             |             | SOW DATE    |
| SED   | 0.093       | 0.093       | 0.132       |

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

| STRATUM  | DF | SE    | CV% |
|----------|----|-------|-----|
| BLOCK.WP | 33 | 0.186 | 4.2 |

GRAIN MEAN DM% 88.1

PLOT AREA HARVESTED 0.00358