

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED  
RESEARCH

# Yields of the Field Experiments 1980

[Full Table of Content](#)



## 80/R/B/14 Spring Barley Sowing Dates and Aphicides

### Rothamsted Research

Rothamsted Research (1981) *80/R/B/14 Spring Barley Sowing Dates and Aphicides ; Yields Of The Field Experiments 1980*, pp 274 - 275 - DOI: <https://doi.org/10.23637/ERADOC-1-31>

80/R/B/14

SPRING BARLEY

SOWING DATES AND APHICIDES

Object: To study the effects of three aphicides on the incidence of aphids and on the yield of s. barley sown on two dates - Whittlocks.

Sponsor: G.C. Scott.

Design: 4 randomised blocks of 10 plots.

Whole plot dimensions: 8.53 x 12.2.

Treatments: All combinations of:-

1. SOWDATE                      Dates of sowing:

24 MARCH  
28 APRIL

2 APHICIDE                      Aphicides:

|          |                                                                                |
|----------|--------------------------------------------------------------------------------|
| NONE     | None                                                                           |
| DEMET 1  | Demeton-s-methyl at 0.12 kg applied once on 16 July 1980                       |
| PERMET 1 | Permethrin at 0.10 kg on 16 July                                               |
| PIRIM 1  | Pirimicarb at 0.14 kg on 16 July                                               |
| DEMET R  | Demeton-s-methyl at 0.24 kg on 23 June and 7 July and<br>at 0.12 kg on 16 July |

NOTE: Spray treatments were applied in 560 l.

Basal applications: Manures: (20:10:10) at 450 kg, combine drilled.

Weedkillers: Dicamba with mecoprop and MCPA (as 'Banlene Plus' at 5.0 l) in 250 l. Fungicide: Tridemorph at 0.53 kg applied with the weedkillers.

Seed: Georgie, sown at 160 kg.

Cultivations, etc.: Ploughed: 22 Nov, 1979. Spring-tine cultivated, for the first sowing: 24 Mar, 1980. Rotary harrowed for the second sowing: 28 Apr. Weedkiller applied to first sowing: 27 May. Weedkiller applied to second sowing: 9 June. Combine harvested: 28 Aug. Previous crops: Grass 1978, w. wheat 1979.

NOTES: Aphid numbers were assessed twice per week from 9 June to 6 Aug. BYDV was assessed in June and July. Stem borers were assessed on three occasions. Numbers of tillers and ears were counted at maturity and 1000 grain weights were measured.

80/R/B/14

GRAIN TONNES/HECTARE

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

| APHICIDE<br>SOWDATE | NONE | DEMET 1 | PERMET 1 | PIRIM 1 | DEMET R | MEAN |
|---------------------|------|---------|----------|---------|---------|------|
| 24 MARCH            | 5.91 | 5.91    | 6.09     | 6.07    | 6.39    | 6.08 |
| 28 APRIL            | 3.77 | 4.30    | 4.15     | 4.18    | 4.73    | 4.23 |
| MEAN                | 4.84 | 5.11    | 5.12     | 5.12    | 5.56    | 5.15 |

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

| TABLE | SOWDATE | APHICIDE | SOWDATE<br>APHICIDE |
|-------|---------|----------|---------------------|
| SED   | 0.102   | 0.161    | 0.228               |

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

| STRATUM  | DF | SE    | CV% |
|----------|----|-------|-----|
| BLOCK.WP | 27 | 0.323 | 6.3 |

GRAIN MEAN DM% 81.4

PLOT AREA HARVESTED 0.00260