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Yields of the Field Experiments 1980

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Rothamsted Experimental Station
Harpenden
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ENGLAND
1980

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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 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 *****

| APHCIDE 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 | APHCIDE | SOWDATE APHCIDE |
|-------|---------|---------|--------------------|
| 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