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## Yields of the Field Experiments 1988

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### 88/R/B/2 Sowing Dates, Aphids and Bydv - W. Barley

#### Rothamsted Research

Rothamsted Research (1989) *88/R/B/2 Sowing Dates, Aphids and Bydv - W. Barley* ; Yields Of The Field Experiments 1988, pp 185 - 186 - DOI: <https://doi.org/10.23637/ERADOC-1-43>

88/R/B/2

WINTER BARLEY

SOWING DATES, APHIDS AND BYDV

**Object:** To study the relationship of aphid numbers in suction trap samples to crop populations and the incidence of BYDV on winter barley sown on a range of dates - Great Field II.

**Sponsors:** N. Carter, R.T. Plumb.

**Design:** 4 randomised blocks of 10 plots.

**Whole plot dimensions:** 3.0 x 23.0.

**Treatments:** All combinations of:-

1. **SOWDATE**                      Dates of sowing:

10 SEPT	10 September, 1987
21 SEPT	21 September
30 SEPT	30 September
14 OCT	14 October
26 OCT	26 October

2. **APHICIDE**                      Aphicide:

NONE	None
CYPERMET	Cypermethrin at 0.025 kg in 380 l on 13 Nov, 1987

**NOTES:** (1) All SOWDATE treatments were rotary harrowed on the day of sowing.

(2) The crop was netted against birds from late June until maturity.

**Basal applications:** Manures: 'Nitram' at 120 kg and later at 480 kg. Weedkillers: Glyphosate at 0.27 kg in 200 l. Fluroxypyr at 0.20 kg with clopyralid at 0.07 kg and bromoxynil at 0.34 kg in 200 l. Isoproturon at 2.1 kg applied with the prochloraz and carbendazim in 200 l. Fungicides: Prochloraz at 0.40 kg and carbendazim at 0.15 kg. Propiconazole at 0.12 kg and tridemorph at 0.25 kg in 200 l.

**Seed:** Igri, sown at 150 kg.

**Cultivations, etc.:-** Spring-tine cultivated: 15 Aug, 1987. Glyphosate applied: 8 Sept. Heavy spring-tine cultivated twice: 10 Sept. N applied: 2 Mar, 1988, 8 Apr. Fluroxypyr with clopyralid and bromoxynil applied: 25 Apr. Isoproturon with prochloraz and carbendazim applied: 6 May. Propiconazole and tridemorph applied: 3 June. Combine harvested: 4 Aug. Previous crops: W. barley 1986 and 1987.

**NOTE:** Aphids were counted from late September to February and again in May. Visual estimates of BYDV were made at the end of April. Components of yield were measured. Take-all was assessed in summer.

88/R/B/2

GRAIN TONNES/HECTARE

\*\*\*\*\* Tables of means \*\*\*\*\*

APHICIDE	NONE	CYPERMET	Mean
<b>SOWDATE</b>			
10 SEPT	3.85	3.81	3.83
21 SEPT	5.28	5.36	5.32
30 SEPT	5.60	5.07	5.34
14 OCT	1.25	1.82	1.53
26 OCT	3.94	3.42	3.68
Mean	3.98	3.90	3.94

\*\*\* Standard errors of differences of means \*\*\*

SOWDATE	APHICIDE	SOWDATE APHICIDE
0.318	0.201	0.450

\*\*\*\*\* Stratum standard errors and coefficients of variation \*\*\*\*\*

Stratum	d.f.	s.e.	cv%
BLOCK.WP	27	0.636	16.1

GRAIN MEAN DM% 73.6

PLOT AREA HARVESTED 0.00230