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74/R/B/10 Control of Cereal Aphids and Bydv - Barley

74/R/B/10 *Control of Cereal Aphids and Bydv - Barley*, Rothamsted Research (1975) Yields Of The Field Experiments 1974, pp 308 - 309 - DOI: <https://doi.org/10.23637/ERADOC-1-119>

74/R/B/10

BARLEY

CONTROL OF CEREAL APHIDS AND BYDV

Object: To study the effects of controlling cereal aphids on the incidence of barley yellow dwarf virus (BYDV) and on yield of barley - Summerdells II.

Sponsor: R.T. Plumb.

Design: 4 blocks of 8 plots, randomisation restricted.

Whole plot dimensions: 6.40 x 24.4. Area harvested: 0.00390.

Treatments: All combinations of:-

1. Phorate as granules to seedbed (1 Apr, 1974) (kg a.i.)	PHDRATE
None	0.0
5.0	5.0
2. Menazon spray early (20 June) (1 'Saphi-Col')	MENAZON(1)
None	0.0
0.7	0.7
3. Menazon spray late (23 July) (1 'Saphi-Col')	MENAZON(2)
None	0.0
0.7	0.7

Basal applications: Manures: (20:14:14) at 440 kg combine drilled.
Weedkiller: Dicamba with mecoprop and MCPA ('Tetralax Plus' at 7.0 l in 340 l).

Seed: Julia, dressed with ethirimol, sown at 160 kg.

Cultivations, etc.: - Ploughed: 16 Nov, 1973. Power harrowed: 1 Apr, 1974.
Seed sown: 2 Apr. Weedkiller applied: 21 May. Combine harvested: 20 Aug. Previous crops: Spring beans and potatoes 1972, barley 1973.

NOTE: Seedling emergence counts were made on two occasions in May.
Counts of plants with virus symptoms were made on three occasions and of aphids on two occasions.

Standard error per plot.

Grain, tonnes/hectare: 0.148 or 2.4% (21 d.f.)

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TABLES OF MEANS

GRAIN: TONNES/HECTARE

	MENZAON(1)		MENZAON(2)		Mean
	0.0	0.7	0.0	0.7	
PHDRATE					
0.0	6.13	6.13	6.08	6.17	6.13
5.0	6.39	6.43	6.35	6.47	6.41
	MENZAON(1)				
		0.0	6.16	6.36	6.26
		0.7	6.28	6.28	6.28
Mean			6.22	6.32	6.27
MENZAON(1)		0.0		0.7	
MENZAON(2)	0.0	0.7	0.0	0.7	
PHORATE					
0.0	6.06	6.20	6.11	6.15	
5.0	6.26	6.52	6.45	6.41	

STANDARD ERRORS OF DIFFERENCES

PHORATE	MENZAON(1)	MENZAON(2)	PHORATE MENZAON(1)	PHORATE MENZAON(2)	MENZAON(1) MENZAON(2)	PHORATE MENZAON(1) MENZAON(2)
0.052	0.052	0.052	0.074	0.074	0.074	0.105

Mean D.M. % 86.4