

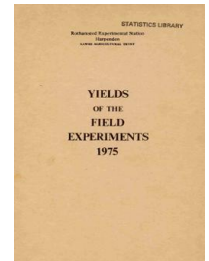
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75/ R/B/7 - Control of Cereal Aphids & Bydv - Barley

Rothamsted Research

Rothamsted Research (1976) 75/ R/B/7 - *Control of Cereal Aphids & Bydv - Barley* ; Yields Of The Field Experiments 1975, pp 320 - 321 - DOI: <https://doi.org/10.23637/ERADOC-1-141>

75/R/B/7

SPRING BARLEY

CONTROL OF CEREAL APHIDS AND BYDV

Object: To study the effects of controlling cereal aphids at different times on the incidence of barley yellow dwarf virus (BYDV) and on the yield of barley - Highfield IV.

Sponsor: R.T. Plumb.

Design: 4 blocks of 8 plots, randomisation restricted.

Whole plot dimensions: 6.40 x 24.4

Treatments: All combinations of:-

1. Phorate, as granules to seedbed (kg a.i.):	PHORATE
None	0.0
5.0	5.0
2. Menazon spray early (13 June) (1 'Saphi-Col'):	MENAZON(1)
None	0.0
0.7	0.7
3. Menazon spray late (9 July) (1 'Saphi-Col'):	MENAZON(2)
None	0.0
0.7	0.7

NOTE: 'Saphi-Col' applied in 450 l.

Basal applications: Manures: (20:14:14) at 380 kg, combine drilled.

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

Cultivations, etc.: - Ploughed: 3 Dec, 1974. Phorate applied, spring-tine cultivated twice and seed sown: 4 Mar, 1975. Combine harvested: 6 Aug. Previous crops: Barley 1973, winter oats 1974.

- NOTES: (1) Emergence counts were made on 25 April.
(2) Aphid counts were made on three occasions and virus counts on two occasions.
(3) 1000 grain weights were determined.

75/R/B/7

*** TABLES OF MEANS ***

GRAIN TONNES /HECTARE

MENAZON(1)	0.0	0.7	MEAN
PHORATE			
0.0	4.58	4.20	4.39
5.0	4.17	4.35	4.26
MEAN	4.38	4.28	4.33

MENAZON(2)	0.0	0.7	MEAN
PHORATE			
0.0	4.41	4.37	4.39
5.0	4.16	4.36	4.26
MEAN	4.28	4.37	4.33

MENAZON(2)	0.0	0.7	MEAN
MENAZON(1)			
0.0	4.30	4.45	4.38
0.7	4.27	4.28	4.28
MEAN	4.28	4.37	4.33

MENAZON(1)	0.0	0.7	0.7	
MENAZON(2)	0.0	0.7	0.0	0.7
PHORATE				
0.0	4.68	4.48	4.14	4.26
5.0	3.92	4.42	4.39	4.30

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

TABLE	PHORATE	MENAZON(1)	MENAZON(2)	PHORATE MENAZON(1)
SED	0.127	0.127	0.127	0.180

TABLE	PHORATE MENAZON(2)	MENAZON(1) MENAZON(2)	PHORATE MENAZON(1) MENAZON(2)
SED	0.180	0.180	0.255

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

STRATUM	DF	SE	CV%
BLOCK.WP	21	0.360	8.3

GRAIN MEAN DM% 86.4

PLOT AREA HARVESTED 0.00390