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88/R/B/3 Alarm Pheromone and Bydv - W. Barley

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88/R/B/3

WINTER BARLEY

ALARM PHEROMONE AND BYDV

Object: To determine whether the use of aphid alarm pheromone allows control of BYDV to be achieved with a decreased rate of insecticide - Scout N.

Sponsors: D.C. Griffiths, L.E. Smart, R.T. Plumb.

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 6.0 x 8.0.

Treatments:

INS PHE	Sprays of insecticide and alarm pheromone:
NONE	None
A	Alarm pheromone
FEN1	Fenvalerate at 9.55 g
FEN1+A	Fenvalerate at 9.55 g + alarm pheromone
FEN2	Fenvalerate at 19.1 g
FEN2+A	Fenvalerate at 19.1 g + alarm pheromone

NOTES: (1) Treatments were applied in 200 l on 22 Oct, 1987.
(2) The alarm pheromone was E-beta-farnesene applied at 0.20 kg.

Basal applications: Manures: 'Nitram' at 120 kg and later at 480 kg.
Weedkillers: Chlortoluron at 3.5 kg with bromoxynil at 0.19 kg and ioxynil at 0.19 kg in 200 l. Fluroxypyr at 0.20 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.:- Disced: 14 Aug, 1987. Ploughed, rotary harrowed, seed sown: 22 Sept. Chlortoluron, bromoxynil and ioxynil applied: 6 Nov. First N applied: 29 Feb, 1988. Second N applied: 7 Apr. Fluroxypyr with prochloraz and carbendazim applied: 6 May. Remaining fungicides applied: 20 May. Combine harvested: 3 Aug. Previous crops: W. barley 1986 and 1987.

NOTE: Aphids were counted soon after treatment and again in April 1988. Observations were made during the season of incidence of BYDV.

88/R/B/3

GRAIN TONNES/HECTARE

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

INS PHE	NONE	A	FEN1	FEN1+A	FEN2	FEN2+A	Mean
	7.09	7.48	7.74	8.03	8.04	7.74	7.69

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

INS PHE
0.324

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	15	0.458	6.0

GRAIN MEAN DM% 84.5

PLOT AREA HARVESTED 0.00163