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94/R/BEW/3 Pheromone-baited Trap Crop - W. Beans

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94/R/BEW/3

WINTER BEANS

PHEROMONE-BAITED TRAP CROP

Object: To investigate the use of pheromone-baited winter beans as a trap crop for migrants of the pea and bean weevil (*Sitona lineatus*) - Pastures.

Sponsors: L.E. Smart, M.M. Blight, R.T. Glinwood.

Design: 5 x 5 quasi-complete Latin square.

Whole plot dimensions: 6.0 x 6.0.

Treatments:

TREATMNT	Pheromone release and timing of insecticide applications:
-	None
P	Pheromone released, no insecticide
PI-1	Pheromone released, insecticide applied late
PI-2	Pheromone released, insecticide applied early
PI-3	Pheromone released, insecticide applied early and late

Experimental diary:

29-Oct-93 : B : Punch broadcast at 25 seeds per m², ploughed, spring-tine cultivated.
31-Jan-94 : B : Carbetamex at 3.0 kg in 200 l.
21-Apr-94 : T : TREATMNT PI-2, PI-3: Decis at 7.5 g in 200 l.
06-May-94 : B : Bombardier at 1.5 l with Ronilan FL at 0.5 l in 300 l.
19-May-94 : T : TREATMNT PI-1, PI-3: Decis at 7.5 g in 200 l.
18-Aug-94 : T : Combine harvested.

Previous crops: W rape 1992, w.wheat 1993.

NOTES: (1) From late February, pheromone was released from a point source, which was hung above the crop at the plot centre.
(2) Assessments of damage to leaves by adult weevils were made during March and April.

94/R/BEW/3

GRAIN TONNES/HECTARE

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

TREATMNT	
-	3.78
P	4.01
PI-1	4.56
PI-2	4.38
PI-3	4.19
Mean	4.18

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

TREATMNT
0.341

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

Stratum	d.f.	s.e.	cv%
ROW.COL	12	0.540	12.9
GRAIN MEAN DM%	85.7		
SUB PLOT AREA HARVESTED	0.00138		