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94/R/BES/3 *bean* Flower Colour and Pheromone - S. Beans

Rothamsted Research

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94/R/BES/3

SPRING BEANS

BEAN FLOWER COLOUR AND PHEROMONE

Object: To compare the incidence of *Sitona lineatus* in purple and white flowered beans with and without insecticide and pheromone - Little Hoos.

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

Design: 6 x 6 quasi-complete Latin square.

Whole plot dimensions: 6.0 x 6.0.

Treatments:

TREATMNT Variety, insecticide and pheromone:

A-	Alfred
AI	Alfred with insecticide
AP	Alfred with pheromone
C-	Caspar
CI	Caspar with insecticide
CP	Caspar with pheromone

Experimental diary:

29-Nov-93 : B : Deep tine cultivated.
21-Mar-94 : B : Scythe at 2.0 l in 200 l.
26-Mar-94 : B : Oxytril CM at 1.5 l with Starane 2 at 1.0 l in 200 l.
30-Mar-94 : B : Heavy spring-tine cultivated, spring-tine cultivated.
 : T : **TREATMNT** A-, AI, AP: Alfred drilled at 60 seeds per m².
 : T : **TREATMNT** C-, CI, CP: Caspar drilled at 60 seeds per m².
12-May-94 : T : **TREATMNT** AI, CI: Decis at 7.5 g in 200 l.
08-Jul-94 : B : Bombardier at 1.0 l with Rovral Flo at 1.5 l and
 Pirimicarb 50 DG at 0.28 kg in 200 l.
18-Aug-94 : T : Combine harvested.

Previous crops : S. barley 1992, potatoes 1993.

NOTES: (1) From late April, pheromone was released from a point source, which was hung above the crop at the plot centre.
(2) Assessments were made of weevil larval numbers in root nodules at the end of May and of damage to leaves by adult weevils in April and May. Pitfall traps were used to assess weevil populations during the season.

94/R/BES/3

GRAIN TONNES/HECTARE

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

TREATMNT

A-	2.27
AI	2.36
AP	2.11
C-	2.47
CI	2.16
CP	1.71

Mean 2.18

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

TREATMNT

0.267

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

Stratum	d.f.	s.e.	cv%
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ROW.COL	20	0.463	21.2
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GRAIN MEAN DM% 80.3

PLOT AREA HARVESTED 0.00276