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95/W/BES/1 *bean* Flower Colour and Pheromones - S. Beans

Rothamsted Research

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95/W/BES/1

SPRING BEANS

BEAN FLOWER COLOUR AND PHEROMONES

Object: To compare the incidence of *Sitona lineatus* in purple and white flowered beans with and without insecticide and pheromone - Woburn, Horsepool Lane Close I.

Sponsors: L.E. Smart, M.M. Blight.

Design: 6 x 6 quasi-complete Latin square.

Whole plot dimensions: 6.0 x 6.0.

Treatments:

1. **VARIETY**

A	Alfred
C	Caspar

2. **INSPHER** Insecticide or pheromone:

-	None
I	Insecticide (deltamethrin)
P	Pheromone

Experimental diary:

23-Mar-95 : B : Heavy spring-tine cultivated.
30-Mar-95 : B : Rotary harrowed.
 : T : **VARIETY** A: Alfred drilled at 60 seeds per m².
 : T : **VARIETY** C: Caspar drilled at 60 seeds per m².
06-Apr-95 : B : Opogard 500 SC at 3.4 l in 200 l.
02-May-95 : T : **INSPHER** I: Decis at 300 ml in 200 l.
15-May-95 : T : **INSPHER** I: Decis at 300 ml in 200 l.
16-Aug-95 : B : Combine harvested.

Previous crops: W. wheat 1993, w.rye 1994.

NOTES: (1) From late April, pheromone was released from a point source 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.

95/W/BES/1

GRAIN TONNES/HECTARE

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

INSPHER VARIETY	-	I	P	Mean
A	2.62	2.36	2.49	2.49
C	2.24	2.11	2.40	2.25
Mean	2.43	2.23	2.45	2.37

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

VARIETY	INSPHER	VARIETY INSPHER
0.057	0.070	0.099

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

Stratum	d.f.	s.e.	cv%
ROW.COL	20	0.172	7.3

GRAIN MEAN DM% 86.9

PLOT AREA HARVESTED 0.00264