

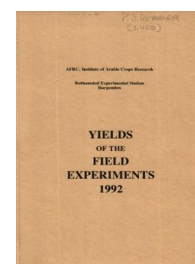
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92/R/BES/3 Effects of Semiochemicals - S. Beans

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92/R/BES/3

SPRING BEANS

EFFECTS OF SEMIOCHEMICALS

Object: To study the effects of a fungal pathogen, attractant and anti-feedant compounds on *Sitona* sp. - Delafield.

Sponsors: L.E. Smart, M.M. Blight, B.J. Pye.

Design: 6 x 6 quasi-complete latin square.

Whole plot dimensions: 6.0 x 6.0.

Treatments:

CHEMICAL	Type of chemical or agent applied:
NONE	None
FUNGPATH	Fungal pathogen (<i>Beauveria</i> sp.)
ATTRACTN	Attractant (pheromone) lures
ATTRDELT	Attractant (pheromone) lures plus deltamethrin
ANTIFEED	Anti-feedant (neem oil 50% a.i.)
DELT METH	Deltamethrin

Experimental diary:

06-Dec-91 : B : Sting CT at 2.0 l in 200 l.
03-Jan-92 : B : Ploughed.
24-Feb-92 : B : PK as (0:20:32) at 1050 kg.
27-Feb-92 : B : Spring-tine cultivated.
27-Feb-92 : B : Rotary harrowed, Alfred drilled at 310 kg.
05-Mar-92 : B : Rolled.
09-Mar-92 : B : Opogard at 2.3 l in 200 l.
08-Apr-92 : T : **CHEMICAL** ATTRACTN and ATTRDELT: Attractant lures installed.
10-Apr-92 : T : **CHEMICAL** ANTIFEED: Anti-feedant at 8.0 kg in 25 l.
22-Apr-92 : T : **CHEMICAL** ATTRDELT: Decis at 0.40 l in 25 l.
 ANTIFEED: Anti-feedant at 8.0 kg in 25 l.
 DELT METH: Decis at 0.40 l in 25 l.
05-May-92 : T : **CHEMICAL** ANTIFEED: Anti-feedant at 8.0 kg in 25 l.
13-May-92 : T : **CHEMICAL** ATTRDELT: Decis at 0.40 l in 25 l.
 ANTIFEED: Anti-feedant at 8.0 kg in 25 l.
 DELT METH: Decis at 0.40 l in 25 l.
03-Jun-92 : T : **CHEMICAL** FUNGPATH: Fungal pathogen applied as suspension of spores in water.
09-Sep-92 : B : Combine harvested.

Previous crops: W. wheat 1990 and 1991.

NOTE: Assessment of adult and larval *Sitona lineatus* population size and feeding damage were made between April and June.

92/R/BES/3

GRAIN TONNES/HECTARE

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

CHEMICAL

NONE	4.39
FUNGPATH	4.34
ATTRACTN	4.26
ATTRDELT	4.81
ANTIFEED	4.27
DELT METH	4.50

Mean 4.43

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

CHEMICAL

0.193

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

Stratum	d.f.	s.e.	cv%
ROW.COL	20	0.335	7.6

GRAIN MEAN DM% 82.9

PLOT AREA HARVESTED 0.00138