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93/R/BES/2 Weevils and Insecticide - S. Beans

Rothamsted Research

Rothamsted Research (1994) *93/R/BES/2 Weevils and Insecticide - S. Beans* ; Yields Of The Field Experiments 1993, pp 148 - 149 - DOI: <https://doi.org/10.23637/ERADOC-1-48>

93/R/BES/2

SPRING BEANS

WEEVILS AND INSECTICIDE

Object: To relate numbers of overwintering *Sitona lineatus* to the most effective timing of application of insecticide to spring beans - White Horse II.

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:

DELT TIM Timing of deltamethrin spray application:

NONE	None
EARLY	Early
MID	Mid
LATE	Late
EAR+LAT	Early and Late

Experimental diary:

10-Feb-93 : B : Ploughed.
23-Mar-93 : B : Rotary harrowed.
24-Mar-93 : B : Rotary harrowed, Alfred, undressed, drilled at 60 seeds per square metre.
25-Mar-93 : B : Opogard 500 FW at 3.4 l in 200 l.
30-Apr-93 : T : **DELT TIM** EARLY, EAR+LAT: Deltamethrin at 7.5 g in 200 l.
10-May-93 : T : **DELT TIM** MID: Deltamethrin at 7.5 g in 200 l.
18-May-93 : T : **DELT TIM** LATE, EAR+LAT: Deltamethrin at 7.5 g in 200 l.
06-Sep-93 : B : Combine harvested.

Previous crops: Linseed 1991 and 1992.

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

93/R/BES/2

GRAIN TONNES/HECTARE

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

DELT TIM	NONE	EARLY	MID	LATE	EAR+LAT	Mean
	5.12	5.23	5.25	5.45	5.41	5.29

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

DELT TIM
0.172

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

Stratum	d.f.	s.e.	cv%
ROW.COL	12	0.272	5.1

GRAIN MEAN DM% 83.3

SUB PLOT AREA HARVESTED 0.00138