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94/R/RAS/3 Semiochemicals and Pollen Beetles - S. Oilseed Rape

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94/R/RAS/3

SPRING OILSEED RAPE

SEMIOCHEMICALS AND POLLEN BEETLES

Object: To test behaviour modifying chemicals on pollen beetles (*Meligethes* spp.) and seed weevils (*Ceutorhynchus assimilis*) in the field - Sawyers II.

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

Design: 5 x 5 quasi-complete Latin square.

Whole plot dimensions: 9.0 x 9.0.

Treatments:

SEMICHEM	Behaviour modifying chemical:
-	None
A	2-phenyl ethyl isothiocyanate
B	butyl isothiocyanate
C	pentyl isothiocyanate
D	methyl salicylate

NOTE: These behaviour modifying chemicals are host plant volatiles. They were released from point sources in the centre of the plots from mid-June till mid-August.

Experimental diary:

04-Nov-93 : B : Ploughed.
18-Apr-94 : B : Spring-tine cultivated, rotary harrowed, Starlight, dressed Lindex-Plus FS, drilled at 200 seeds per m².
19-Apr-94 : B : Butisan S at 1.5 l in 200 l.
10-May-94 : B : 34.5% N at 348 kg.
24-Aug-94 : B : Combine harvested.

Previous crops: S. wheat 1992, linseed 1993.

NOTE: Numbers of pollen beetles and seed weevils were assessed weekly throughout the summer. Pods were sampled in July to assess seed weevil damage.

94/R/RAS/3

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

SEMICHEM

-	1.95
A	1.84
B	1.86
C	1.89
D	1.61

Mean	1.83
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*** Standard errors of differences of means ***

SEMICHEM

0.109

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

Stratum	d.f.	s.e.	cv%
ROW.COL	12	0.172	9.4

GRAIN MEAN DM% 82.5

PLOT AREA HARVESTED 0.00207