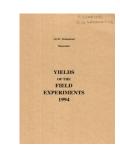
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# Yields of the Field Experiments 1994



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

# **Rothamsted Research**

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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
В	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:

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04-Nov-93 : B : Ploughed.
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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 1 in 200 1.

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

\*\*\* 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