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## Yields of the Field Experiments 1993

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### 93/R/RAW/3 Effects of Behaviour Modifying Chemicals - W. Oilseed Rape

#### Rothamsted Research

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93/R/RAW/3

WINTER OILSEED RAPE

EFFECTS OF BEHAVIOUR MODIFYING CHEMICALS

**Object:** To study the effects of behaviour modifying chemicals in the field on the pests of w. oilseed rape - Bones Close.

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

**Design:** 5 x 5 quasi-complete latin square.

**Whole plot dimensions:** 9.0 x 9.0.

**Treatments:**

**CHEMICAL** Behaviour modifying chemicals:

BMC 0	None
BMC A	A
BMC B	B
BMC C	C
BMC D	D

**NOTE:** The behaviour modifying chemicals were mixtures of host plant volatiles in various combinations. They were released from point sources above the crop from October 1992 until mid-June 1993.

**Experimental diary:**

27-Jul-92 : B : Shallow cultivated with Bomford Dynadrive.  
28-Jul-92 : B : Rolled.  
18-Aug-92 : B : Sting CT at 2.0 l in 200 l.  
20-Aug-92 : B : Ploughed, furrow pressed.  
26-Aug-92 : B : Rotary harrowed, Libravo, undressed, drilled at 120 seeds per square.  
22-Oct-92 : B : Benazalox at 0.75 l and Butisan S at 1.5 l in 200 l.  
18-Feb-93 : B : 34.5% N at 170 kg.  
23-Mar-93 : B : 34.5% N at 370 kg.  
19-Jul-93 : B : Stefes Diquat at 3.0 l with Vassgro Spreader at 0.40 l in 400 l.  
23-Jul-93 : B : Combine harvested.

Previous crops: W. barley 1991 and 1992.

**NOTE:** Plant samples were taken for cabbage stem flea beetle population assessments in December and February. Assessments of pollen beetle and seed weevil populations were made from April to June.

93/R/RAW/3

GRAIN (AT 90% DM) TONNES/HECTARE

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

**CHEMICAL**

BMC O	4.08
BMC A	3.51
BMC B	3.72
BMC C	3.69
BMC D	4.09

Mean	3.82
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\*\*\* Standard errors of differences of means \*\*\*

**CHEMICAL**

0.255

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

Stratum	d.f.	s.e.	cv%
ROW.COL	12	0.403	10.5

GRAIN MEAN DM% 79.9

PLOT AREA HARVESTED 0.00207