

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1993

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1994) *93/R/RAW/3 Effects of Behaviour Modifying Chemicals - W. Oilseed Rape* ; Yields Of The Field Experiments 1993, pp 126 - 127 - DOI:

<https://doi.org/10.23637/ERADOC-1-48>

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
------	------

*** 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