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

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94/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 - Appletree.

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	Type of behaviour modifying chemical released:
-	None
A	A
B	B
C	C
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 1993 until mid-June 1994.

Experimental diary:

19-Jul-93 : B : Cultivated by rotary grubber.
29-Jul-93 : B : Deep tine cultivated with vibrating tines 60 cm apart, 45 cm deep.
02-Aug-93 : B : Rolled.
16-Aug-93 : B : PK as (0:18:36) at 1250 kg.
18-Aug-93 : B : Ploughed and furrow pressed, rolled.
23-Sep-93 : B : Rotary harrowed, Envol, dressed Lindex-Plus FS, drilled at 120 seeds per m².
07-Oct-93 : B : Draza at 5.5 kg.
08-Mar-94 : B : 34.5% N at 162 kg.
11-Apr-94 : B : 34.5% N at 346 kg.
08-Aug-94 : B : Combine harvested.

Previous crops: Potatoes 1992, set-aside 1993.

NOTE: Numbers of cabbage stem flea beetle larvae were assessed in plant samples taken in December and February. Numbers of pollen beetles and seed weevils were assessed weekly throughout the spring and early summer. Pod samples were taken in June to assess seed weevil damage.

94/R/RAW/3

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

CHEMICAL

-	3.12
A	3.26
B	3.22
C	3.18
D	2.98
Mean	3.15

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

CHEMICAL

0.128

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

Stratum	d.f.	s.e.	cv%
ROW.COL	12	0.203	6.4

GRAIN MEAN DM% 90.4

PLOT AREA HARVESTED 0.00207