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00/R/M/4 Effects of Behaviour Modifying Chemicals

Rothamsted Research

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00/R/M/4

EFFECTS OF BEHAVIOUR MODIFYING CHEMICALS

Object: To continue to develop manipulation strategies of insect pests in oilseed rape - Great Harpenden I.

Sponsors: L.E. Smart, B.J. Pye, J. Martin.

Design: 6 x 6 quasi-complete Latin square.

Whole plot dimensions: 9.0 x 9.0.

Treatments:

CRP CHEM	Crop with or without semiochemical:
-	Rape, untreated, duplicated in each column and row
S	Rape with semiochemical, duplicated in each column and row
T	Turnip rape, untreated, duplicated in each column and row

Experimental diary:

08-Aug-99	: B :	: Ploughing and furrow pressing started.
12-Aug-99	: B :	: Ploughing and furrow pressing completed.
28-Aug-99	: T : -,S	: Combination drilled, Apex, untreated, at 170 seeds/m ² , with the Accord drill.
	: T : T	: Combination drilled, Salut, untreated, at 170 seeds/m ² with the Accord drill.
	: B :	: Rolled.
29-Aug-99	: B :	: tm)Alpha Trifluralin 48 EC at 2.0 l in 200 l.
	: B :	: tm)Katamaran at 2.0 l in 200 l.
30-Aug-99	: B :	: PBI Slug Pellets at 8.0 kg.
13-Oct-99	: B :	: Punch C at 0.4 l in 200 l.
19-Oct-99	: B :	: 34.5% N at 87 kg.
02-Dec-99	: B :	: Punch C at 0.4 l in 200 l.
09-Feb-00	: B :	: Sulphan (30.0% N, 7.6% S) at 166 kg.
17-Mar-00	: B :	: Sulphan (30.0% N, 7.6% S) at 433 kg.
14-Apr-00	: T : S	: Azatin at 1.5 l in 10 l.
15-May-00	: B :	: Bavistin FL at 1.0 l in 200 l.
12-Jul-00	: B :	: Azural at 4.0 l in 200 l.
23-Jul-00	: B :	: Combine harvested.

Previous crops: W. rape and turnip rape 1998, w. wheat 1999.

NOTE: Pollen beetles and seed weevil adults were counted at regular intervals. Raceme samples were taken in April to assess pollen beetle eggs and larvae. Pod samples were taken in May and June to assess seed weevil and pod midge larval infestations.

00/R/M/4

GRAIN TONNES/HECTARE

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

CRP CHEM

-	4.88
S	5.03
T	3.01

Mean	4.31
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*** Standard errors of differences of means ***

CRP CHEM

0.108

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

Stratum	d.f.	s.e.	cv%
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ROW.COL	23	0.264	6.1
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GRAIN MEAN DM% 87.5

PLOT AREA HARVESTED 0.00216