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98/R/TR/1 Pest Control in Turnip Rape - Turnip Rape

Rothamsted Research

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98/R/TR/1

TURNIP RAPE

PEST CONTROL IN TURNIP RAPE

Object: To monitor pest infestation in turnip rape and their control with conventional and novel insecticides - Great Harpenden I.

Sponsor: B.J. Pye, L.E. Smart.

Design: 4 blocks of 3 plots.

Whole plot dimensions: 10.0 x 3.0.

Treatments:

PESTCONT	Pest control:
	None
1	Insecticide (Decis)
2	Metarhizium anisopliae

Experimental diary:

26-Aug-97 : B : Ploughed and furrow pressed. Rolled.
27-Aug-97 : B : Rotary harrowed, Salut undressed, drilled at 4.4 kg.
03-Oct-97 : B : Clayton Metazachlor at 1.5 l in 200 l.
14-Oct-97 : T : PESTCONT U: Metarhizium anisopliae in 10 l.
22-Oct-97 : T : PESTCONT U: Metarhizium anisopliae in 10 l.
27-Oct-97 : T : PESTCONT U: Metarhizium anisopliae in 10 l.
29-Oct-97 : T : PESTCONT I: Decis at 0.5 kg in 200 l.
07-Nov-97 : B : Punch C at 0.4 l in 200 l.
12-Nov-97 : T : PESTCONT U: Metarhizium anisopliae in 10 l.
17-Feb-98 : B : Folicur at 0.5 l in 200 l.
19-Feb-98 : B : Laser at 0.75 l with Chiltern Cropoil at 1.0 l in 100 l.
02-Mar-98 : B : 34.5% N at 350 kg.
27-Mar-98 : T : PESTCONT U: Metarhizium anisopliae in 10 l.
02-Apr-98 : T : PESTCONT I: Decis at 0.5 kg in 200 l.
08-Apr-98 : T : PESTCONT U: Metarhizium anisopliae in 10 l.
17-Apr-98 : T : PESTCONT U: Metarhizium anisopliae in 10 l.
27-Apr-98 : T : PESTCONT U: Metarhizium anisopliae in 10 l.
16-Jul-98 : B : Reglone at 3.0 l with Headland Enhance LF at 400 ml in 400 l.
24-Jul-98 : B : Combine harvested.

Previous crops: S. barley 1996, w. wheat 1997.

NOTE: Plant samples were taken in December and February to assess cabbage stem flea beetle and stem weevil damage. Raceme samples were taken in April to assess pollen beetle damage. Pod samples were taken in June to assess seed weevil damage.

98/R/TR/1

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

PESTCONT

-	0.59
I	1.05
U	0.50

Mean	0.71
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*** Standard errors of differences of means ***

PESTCONT

0.139

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

Stratum	d.f.	s.e.	cv%
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BLOCK.WP	6	0.196	27.7
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GRAIN MEAN DM% 82.8

PLOT AREA HARVESTED 0.00230