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98/R/RAW/8 Pest Control in Winter Rape - W. Oilseed Rape

Rothamsted Research

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98/R/RAW/8

WINTER OILSEED RAPE

PEST CONTROL IN WINTER RAPE

Object: To test conventional and novel pest control agents - Great Harpenden I.

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

Design: 4 blocks of 3 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments:

PESTCONT

-	None
I	Deltamethrin
U	Metarhizium anisopliae

Experimental diary:

26-Aug-97 : B : Ploughed and furrow pressed. Rolled.
27-Aug-97 : B : Rotary harrowed, Apex, undressed, drilled at 120 seeds per m².
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 500 g 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.
04-Feb-98 : B : 34.5% N at 290 kg.
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 500 g 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.

98/R/RAW/8

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.

GRAIN TONNES/HECTARE

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

PESTCONT

-	4.24
I	4.46
U	4.07

Mean	4.26
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*** Standard errors of differences of means ***

PESTCONT

0.162

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	6	0.230	5.4

GRAIN MEAN DM% 90.9

PLOT AREA HARVESTED 0.00230