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## Yields of the Field Experiments 1997

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### 97/R/RAS/3 Neem Study - S. Oilseed Rape

#### Rothamsted Research

Rothamsted Research (1998) *97/R/RAS/3 Neem Study - S. Oilseed Rape* ; Yields Of The Field Experiments 1997, pp 136 - 137 - DOI: <https://doi.org/10.23637/ERADOC-1-53>

97/R/RAS/3

SPRING OILSEED RAPE

NEEM STUDY

**Object:** To test two formulations of neem on cereal aphids in spring wheat - Delafield.

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

**Design:** 4 randomised blocks of 6 plots.

**Whole plot dimensions:** 3.0 x 10.0.

**Treatments:**

<b>NEEMFORM</b>	Formulation and timing:
-	None
I	Deltamethrin at aphid migration
O1	Neem oil at 2.5 kg in 10.4 l by electrostatic sprayer
O2	Neem oil at 2.5 kg in 200 l by hydraulic sprayer
E1	Neem extract at 7.5 g a.i. in 10.4 l by electrostatic sprayer
E2	Neem extract at 7.5 g a.i. in 200 l by hydraulic sprayer

**Experimental diary:**

31-Oct-96 : B : Ploughed.  
21-Mar-97 : B : Rolled. Spring-tine cultivated.  
06-Apr-97 : B : MTM Trifluralin at 2.3 l in 390 l. Spring-tine cultivated twice.  
07-Apr-97 : B : Rotary harrowed, Starlight, recleaned, drilled at 120 seeds per m<sup>2</sup>. Rolled.  
09-Apr-97 : B : Irrigated 13 mm.  
18-Apr-97 : B : Irrigated 13 mm.  
01-May-97 : B : Cyperkill 10 at 300 ml with Vassgro Non-ionic at 50 ml in 300 l.  
15-May-97 : B : Cyperkill 10 at 300 ml with Vassgro Non-ionic at 50 ml in 300 l.  
30-May-97 : B : 34.5% N at 290 kg.  
10-Jun-97 : T : **NEEMFORM** I: Decis at 0.5 l in 200 l.  
          : T : **NEEMFORM** O1, O2, E1 and E2: Neem treatments applied.  
17-Jun-97 : T : **NEEMFORM** O1, O2, E1 and E2: Neem treatments applied.  
24-Jun-97 : T : **NEEMFORM** O1, O2, E1 and E2: Neem treatments applied.  
04-Sep-97 : B : Combine harvested.

Previous crops: S. rape 1995, w. wheat 1996.

**NOTES:** (1) Neem products applied at 2.5 l product in 200 l for hydraulic sprayer and in 10.4 l for electrostatic sprayer.  
(2) Pollen beetle populations were assessed weekly through the flowering period.

97/R/RAS/3

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

**NEEMFORM**

-	1.25
I	1.33
O1	1.39
O2	1.25
E1	1.39
E2	1.19
Mean	1.30

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

**NEEMFORM**

0.101

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	15	0.143	11.0

GRAIN MEAN DM% 83.6

PLOT AREA HARVESTED 0.00240