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

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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:

NEEMFORM	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 m². 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