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97/R/WS/3 Neem Study - S. Wheat

Rothamsted Research

Rothamsted Research (1998) *97/R/WS/3 Neem Study - S. Wheat* ; Yields Of The Field Experiments 1997, pp 123 - 124 - DOI: <https://doi.org/10.23637/ERADOC-1-53>

97/R/WS/3

SPRING WHEAT

NEEM STUDY

Object: To field test formulations of neem on cereal aphids - Summerdells I.

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

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 3.0 x 5.0.

Treatments:

NEEMFORM

-	None
I	Insecticide
OH	Neem oil applied by hydraulic sprayer
OE	Neem oil applied by electrostatic sprayer
EH	Neem extract applied by hydraulic sprayer
EE	Neem extract applied by electrostatic sprayer

Experimental diary:

08-Jul-96 : B : Deep-tine cultivated with vibrating tines 60 cm apart and 45 cm deep.
10-Jul-96 : B : Rolled.
30-Oct-96 : B : Ploughed.
11-Mar-97 : B : Rotary harrowed. Spring-tine cultivated twice.
12-Mar-97 : B : Rotary harrowed, Chablis, dressed Sibutol, drilled at 400 seeds per m².
14-Mar-97 : B : Rolled.
12-May-97 : B : 34.5% N at 370 kg.
22-May-97 : B : Campbell's CMPP at 2.1 l with Vindex at 1.0 l in 300 l.
10-Jun-97 : T : **NEEMFORM** OH, OE, EH, EE: Neem treatments applied.
17-Jun-97 : T : **NEEMFORM** I: Decis at 250 ml in 200 l.
 : T : **NEEMFORM** OH, OE, EH, EE: Neem treatments applied.
24-Jun-97 : T : **NEEMFORM** OH, OE, EH, EE: Neem treatments applied.
05-Sep-97 : B : Combine harvested.

Previous crops: W. wheat 1995, set-aside 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) Aphid populations were assessed weekly from mid-May till harvest.

97/R/WS/3

GRAIN TONNES/HECTARE

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

NEEMFORM	
-	7.65
I	8.03
OH	7.88
OE	7.69
EH	7.82
EE	7.61
Mean	7.78

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

NEEMFORM
0.214

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	15	0.303	3.9
GRAIN MEAN DM%	84.8		
PLOT AREA HARVESTED	0.00120		