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ROTHAMSTED RESEARCH

Yields of the Field Experiments 1997

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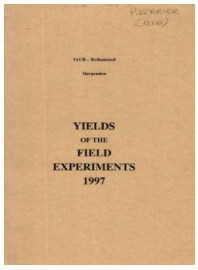

97/R/M/6 Effects of Behaviour Modifying Chemicals - W. Rape , Turnip Rape - Mixed Crops

Rothamsted Research

Rothamsted Research (1998) *97/R/M/6 Effects of Behaviour Modifying Chemicals - W. Rape , Turnip Rape - Mixed Crops ;* Yields Of The Field Experiments 1997, pp 155 - 156 **- DOI: https://doi.org/10.23637/ERADOC-1-53**

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97/R/M/6

MIXED 6

EFFECTS OF BEHAVIOUR MODIFYING CHEMICALS

Object: To test insect behaviour modifying chemicals on oilseed rape and to provide an attractive trap crop; turnip rape - Little Hoos.

Sponsor: L.E. Smart.

Design: 6 x 6 quasi-complete Latin square.

Whole plot dimensions: 9.0 x 9.0.

Treatments:

CROPCHEM	Crop, chemical and timing:
-	Oilseed rape, no chemical
A	Oilseed rape, 0.1% Agral in 200 l applied 10-Oct-96, 21-Oct, 14-Nov, 25-Mar-97, 10-Apr
B	Oilseed rape, 2-phenylethyl isothiocyanate point source from 23-Sep-96
C	Oilseed rape, (Z)-3-hexen-1-ol point source from 23-Sep-96
D	Oilseed rape, Hexan-1-ol point source 23-Sep-96 to 6-Mar-97, Phenylacetonitrile point source from 6-Mar-97
TR	Turnip rape no chemical

Experimental diary:

23-Jul-96 : B : Chalk at 2.5 t.
26-Jul-96 : B : Ploughed and furrow pressed, rolled.
30-Aug-96 : B : Spring-tine cultivated.
30-Aug-96 : **T** : **CROPCHEM** -, A, B, C, D: Rotary harrowed, Apex, undressed, drilled at 120 seeds per m^2.
: **T** : **CROPCHEM** TR: Rotary harrowed, Salut, undressed, drilled at 120 seeds per m^2.
: B : Rolled.
24-Sep-96 : **T** : **CROPCHEM** TR: Salut, broadcast at 90 seeds per m^2.
27-Sep-96 : B : Irrigated 25 mm.
30-Oct-96 : B : Butisan S at 1.5 l in 200 l.
28-Feb-97 : B : 34.5% N at 175 kg.
18-Mar-97 : B : 34.5% N at 350 kg.
09-Jul-97 : B : Reglone at 3.0 l with Vassgro Non-ionic at 392 ml in 400 l.
16-Jul-97 : B : Combine harvested.

Previous crops: W. wheat 1995, set-aside 1996.

NOTE: Plant samples were taken in December to assess investigation of cabbage stem flea beetles. Pollen beetle populations were assessed on five occasions in March and April. Raceme samples were taken in April to assess pollen beetle eggs and larvae. Pod samples were taken in May and June to assess seed weevil and pod midge eggs and larvae.

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97/R/M/6

GRAIN TONNES/HECTARE

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

CROPCHEM	
-	3.90
A	3.95
B	3.75
C	3.95
D	3.89
TR	2.62
Mean	3.68

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

CROPCHEM
0.163

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

Stratum	d.f.	s.e.	cv%
ROW.COL	20	0.283	7.7

GRAIN MEAN DM% 89.4

PLOT AREA HARVESTED 0.00216

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