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88/R/RA/12 Anti-feedants - S. Oilseed Rape

Rothamsted Research

Rothamsted Research (1989) *88/R/RA/12 Anti-feedants - S. Oilseed Rape* ; Yields Of The Field Experiments 1988, pp 238 - 239 - DOI: <https://doi.org/10.23637/ERADOC-1-43>

88/R/RA/12

SPRING OILSEED RAPE

ANTI-FEEDANTS

Object: To study the effects of insect anti-feedants on pests of oilseed rape - Long Hoos V 7.

Sponsors: D.C. Griffiths, L.E. Smart.

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 2.5 x 5.0.

Treatments:

PESTCONT Methods of insect pest control:

NONE	None
HCH TRI	Gamma-HCH and triazophos
AJUGA C	Ajuga chamaeipyttis extract
AJUGA R	Ajuga remota extract
HOP EXTR	Beta-acid extract of hops
NEEM OIL	Neem oil

Notes: (1) Gamma-HCH was applied at 0.53 kg on 14 June, 1988, triazophos at 0.42 kg on 12 July.

(2) Remaining materials were applied on 14, 20, 29 June and 5, 12, 20 and 26 July. On each occasion Ajuga chamaeipyttis extract was applied at a rate equivalent to the extract from 20 kg of fresh plant material, Ajuga remota from 5 kg of fresh plant material. The beta-acid extract of hops was applied at 1.0 l, neem oil at 0.10 l.

(3) All treatments were applied in 10 l water.

Basal applications: Manures: (0:18:36) at 1040 kg. 'Nitro-Chalk' at 600 kg. Weedkiller: Clopyralid at 0.10 kg in 220 l. Desiccant: Diquat at 0.60 kg ion in 220 l, applied twice.

NOTE: The desiccant was repeated because of rain soon after the first application.

Seed: Topas, sown at 8 kg.

Cultivations, etc.:- PK applied: 30 Sept, 1987. Ploughed: 14 Dec. Rotary harrowed, seed sown, N applied, rolled: 18 Apr, 1988. Weedkiller applied: 14 June. Desiccant applied twice: 14 Sept. Combine harvested: 30 Sept. Previous crops: Fallow 1986, lupins 1987.

NOTES: (1) Pollen beetle, seed weevil and pod midge damage were assessed at intervals during the season.

(2) Because of a combine malfunction yields from two plots were lost, with treatments NONE and HCH TRI. Estimated values were used in the analysis.

88/R/RA/12

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

PESTCONT	NONE	HCH TRI	AJUGA C	AJUGA R	HOP	EXTR	NEEM	OIL	Mean
	1.14	1.22	0.98	1.00	1.11	1.12			1.10

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

PESTCONT
0.076

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	13	0.107	9.8

GRAIN MEAN DM% 83.5

PLOT AREA HARVESTED 0.00084