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Yields of the Field Experiments 1983

Full Table of Content

83/R/RA/1 Mustard Oils and Light Leaf Spot - W. Oilseed Rape

Rothamsted Research

Rothamsted Research (1984) *83/R/RA/1 Mustard Oils and Light Leaf Spot - W. Oilseed Rape ;* Yields Of The Field Experiments 1983, pp 310 - 311 **- DOI: https://doi.org/10.23637/ERADOC-1-44**

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83/R/RA/1

WINTER OILSEED RAPE

MUSTARD OILS AND LIGHT LEAF SPOT

Object: To study the effects of mustard oils, sulphur and benomyl on the incidence of light leaf spot (Pyrenopeziza brassicae) and on the yield of two w. oilseed rape varieties with contrasting glucosinolate levels - Long Hoos V 4.

Sponsors: C.J. Rawlinson, G.R. Cayley, J.A. Pickett.

Design: 3 randomised blocks of 10 plots.

Whole plot dimensions: 1.83 x 6.10.

Treatments: All combinations of:

1. VARIETY	Varieties:
DP 1305	
NORLI	
2. FUNGCIDE	Fungicides:
NONE	None
BENOMYL	Benomyl at 0.5 kg in 4.2 l
M OIL 1	Mustard oil 1 at 0.15 kg in 4.2 l
M OIL 2	Mustard oil 2 at 0.24 kg in 4.2 l
SULPHUR	Elemental sulphur at 10 kg in 340 l (as 'Thiovit')

NOTES: (1) All fungicide treatments were applied on 30 Nov, 1982 and 12 Apr, 1983; sulphur was applied by hydraulic sprayer, the remainder by electrostatic sprayer.
(2) Diseases were so severe on VARIETY DP1305 that all plants, irrespective of treatments were killed by the end of April.

Basal applications: Manures: 'Nitro-Chalk' at 900 kg. Weedkillers: Benazolin ethyl ester at 0.67 kg with 3, 6-dichloropicolinic acid at 0.11 kg in 450 l. Desiccant: Diquat at 0.84 kg ion in 250 l.

Seed: Sown at 19 kg.

Cultivations, etc.:- Spring-tine cultivated twice: 25 Aug, 1982. Seed sown by hand: 26 Aug. Weedkillers applied: 15 Oct. N applied: 14 Mar, 1983. Desiccant applied: 25 July. Combine harvested: 27 July. Previous crops: Potatoes 1981, fallow 1982.

NOTE: Phoma and light leaf spot were assessed on five occasions during the season.

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83/R/RA/1

NORLI ONLY

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

FUNGCIDE	NONE	BENOMYL	M OIL 1	M OIL 2	SULPHUR	MEAN
	2.05	2.60	2.29	2.47	2.46	2.37

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	FUNGCIDE
SED	0.246

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	8	0.301	12.7

GRAIN MEAN DM% 75.4

PLOT AREA HARVESTED 0.00111

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