

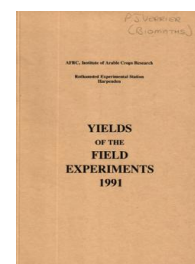
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91/R/RAW/6 Fungicides and Light Leaf Spot - W. Oilseed Rape

Rothamsted Research

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91/R/RAW/6

WINTER OILSEED RAPE

FUNGICIDES AND LIGHT LEAF SPOT

Object: To study the effects of three dates of applying prochloraz on light leaf spot (*Pyrenopeziza brassicae*) and yield of winter oilseed rape - Great Field I.

Sponsors: L. Figueroa, B.D.L. Fitt.

Design: 4 randomised blocks of 4 plots.

Whole plot dimensions: 3.0 x 25.0.

Treatments:

PROCHLOR	Date of applying prochloraz at 0.5 kg in 200 l:
NEVER	Never
WINTER	3 Dec, 1990
SPRING	8 Apr, 1991
SUMMER	17 June

Basal applications: Manure: 'Nitram' at 320 kg on two separate occasions. Weedkillers: Glyphosate at 0.54 kg in 200 l. Metazachlor at 0.75 kg in 200 l. Insecticide: Alphacypermethrin at 0.02 kg in 200 l. Desiccant: Diquat at 0.60 kg ion with a wetting agent, 'Vassgro' at 0.52 l, in 520 l. Irrigation: 25 mm.

Seed: Cobra, seed not dressed, sown at 6.0 kg.

Cultivations, etc.:- Rotary cultivated: 21 July, 1990. Glyphosate applied: 24 Aug. Cultivated by rotary grubber: 28 Aug. Seed sown: 30 Aug. Metazachlor applied: 31 Aug. Irrigated: 14 Sept. N applied: 26 Feb, 1991, and 21 Mar. Insecticide applied: 24 Apr. Desiccant with wetting agent applied: 29 July. Combine harvested: 5 Aug. Previous crops: S. barley 1989, w. oilseed rape 1990.

NOTE: Incidence and severity of light leaf spot and other diseases were assessed monthly. Airborne inoculum was monitored from sowing to March. Oil, glucosinolate content and components of yield were measured and meteorological data recorded.

91/R/RAW/6

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

PROCHLOR

NEVER	2.66
WINTER	2.66
SPRING	2.77
SUMMER	2.64

Mean	2.68
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*** Standard errors of differences of means ***

PROCHLOR

0.105

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	9	0.148	5.5

GRAIN MEAN DM% 87.7

PLOT AREA HARVESTED 0.00253