

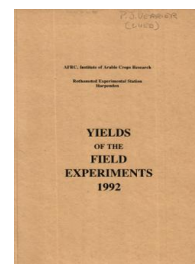
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Rothamsted Research (1993) *92/R/RAW/6 Light Leaf Spot Study - W. Oilseed Rape* ; Yields Of The Field Experiments 1992, pp 131 - 132 - DOI: <https://doi.org/10.23637/ERADOC-1-47>

92/R/RAW/6

WINTER OILSEED RAPE

LIGHT LEAF SPOT STUDY

Object: To study methods for the prediction and detection of early infection of light leaf spot (*Pyrenopeziza brassicae*) and subsequent effects on crop phenology and yield - Great Knott III.

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

Design: 4 randomised blocks of 6 plots split into 2 sub plots.

Whole plot dimensions: 9.0 x 21.0.

Treatments:

Whole plots

1. **FUNGCIDE** Time of fungicide application:

NONE	None
PROCAUT	Prochloraz in autumn
PROCWINT	Prochloraz in winter
PROCSPR	Prochloraz in spring
IPROSUM	Iprodione in summer
PA+PS+IS	Prochloraz in autumn and spring, iprodione in summer

Sub plots

2. **VARIETY** Varieties:

CAPRCORN	Capricorn
FALCON	Falcon

Experimental diary:

28-Aug-91 : B : Straw chopped.
05-Sep-91 : B : Ploughed, rolled.
06-Sep-91 : T : **VARIETY** CAPRCORN: Rotary harrowed. Capricorn, dressed Lindex-Plus FS, drilled at 9.7 kg.
06-Sep-91 : T : **VARIETY** FALCON: Rotary harrowed. Falcon, dressed Lindex-Plus FS, drilled at 8.0 kg.
06-Sep-91 : B : Rolled.
13-Oct-91 : B : Pilot at 0.15 l with Cropspray 11 E at 2.5 l in 200 l.
11-Nov-91 : B : Benazalox at 0.75 kg and Butisan S at 1.5 l in 200 l.
02-Dec-91 : T : **FUNGCIDE** PROCAUT, PA+PS+IS: Sportak 45 at 0.55 l in 200 l.
17-Feb-92 : T : **FUNGCIDE** PROCWINT: Sportak 45 at 0.55 l in 200 l.
19-Feb-92 : B : 34.5% N at 220 kg.
21-Feb-92 : B : Benazalox at 1.5 kg in 200 l.
25-Mar-92 : B : 34.5% N at 290 kg.
09-Apr-92 : T : **FUNGCIDE** PROCSPR, PA+PS+IS: Sportak 45 at 1.1 l in 200 l.
04-Jun-92 : T : **FUNGCIDE** IPROSUM, PA+PS+IS: Rovral Flo at 2.0 l in 200 l.

92/R/RAW/6

Experimental diary:

15-Jul-92 : B : Reglone at 3.0 l with Farmon Blue at 0.26 l in 260 l.
 20-Jul-92 : B : Combine harvested.

Previous crops: W. wheat 1990 and 1991.

NOTE: Disease incidence on the crop was assessed at intervals during the growing season. Air-borne inoculation was monitored from autumn to spring using bait plants and a Burkard spore sampler. At harvest oil and glucosinolate levels in the seed were determined.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNGCIDE VARIETY	NONE	PROCAUT	PROCWINT	PROCSRP	IPROSUM	PA+PS+IS	Mean
CAPRCORN	4.60	4.55	4.38	4.67	4.45	4.53	4.53
FALCON	3.75	3.91	3.68	3.96	3.68	4.06	3.84
Mean	4.18	4.23	4.03	4.31	4.07	4.29	4.18

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

	FUNGCIDE	VARIETY	FUNGCIDE VARIETY
	0.220	0.077	0.257
Except when comparing means with the same level(s) of FUNGCIDE			0.188

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	15	0.311	7.4
BLOCK.WP.SP	18	0.266	6.4

GRAIN MEAN DM% 79.3

SUB PLOT AREA HARVESTED 0.00483