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## Yields of the Field Experiments 1992

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### 92/R/RAW/6 Light Leaf Spot Study - W. Oilseed Rape

#### Rothamsted Research

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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