

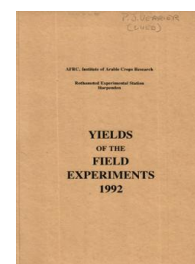
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# Yields of the Field Experiments 1992

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

### Rothamsted Research

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. <b>FUNGICIDE</b> | 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. <b>VARIETY</b> | 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 : **FUNGICIDE** PROCAUT, PA+PS+IS: Sportak 45 at 0.55 l in  
200 l.  
17-Feb-92 : T : **FUNGICIDE** 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 : **FUNGICIDE** PROCSPR, PA+PS+IS: Sportak 45 at 1.1 l in  
200 l.  
04-Jun-92 : T : **FUNGICIDE** 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<br>VARIETY | NONE | PROCAUT | PROCWINT | PROCSPR | 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<br>VARIETY |
|-------------------------------------------------------|---------|---------------------|
|                                                       | 0.220   | 0.077               |
| Except when comparing means with the same level(s) of |         | 0.257               |
| 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