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## Yields of the Field Experiments 1992

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### 92/R/RAW/2 Varieties and Fungicides - W. Oilseed Rape

#### Rothamsted Research

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92/R/RAW/2

**WINTER OILSEED RAPE**

**VARIETIES AND FUNGICIDES**

**Object:** To investigate the effects of fungicides on a range of low glucosinolate varieties - Great Harpenden II.

**Sponsors:** V.J. Church, B.D.L. Fitt.

**Design:** 4 randomised blocks of 14 plots.

**Whole plot dimensions:** 3.0 x 21.0.

**Treatments:** All combinations of:-

1. **VARIETY** Varieties:

CAPRCORN	Capricorn
ENVOL	Envol
EUROL	Eurol
FALCON	Falcon
LIBRAVO	Libravo
SAMOURAI	Samourai
TAPIDOR	Tapidor

2. **FUNGICIDE** Fungicides:

NONE	None
PR+IP	Prochloraz in autumn and spring, iprodione in summer.

**NOTE:** CAPRCORN plots were systematically arranged at one end of each block.

**Experimental diary:**

11-Aug-91 : B : Straw chopped.  
21-Aug-91 : B : Deep tine cultivated with vibrating tines, 60 cm apart and 45 cm deep.  
22-Aug-91 : B : Dolomite at 5.0 t, ploughed.  
26-Aug-91 : B : Rolled.  
10-Sep-91 : B : Cultivated twice by rotary grubber.  
11-Sep-91 : B : Rolled.  
11-Sep-91 : **T** : **VARIETY** ENVOL, EUROL, FALCON, LIBRAVO, SAMOURAI, TAPIDOR, CAPRCORN: Rotary harrowed. All varieties, dressed, drilled at 120 seeds per square metre.  
22-Oct-91 : B : Butisan S at 1.5 l and Pilot at 75 ml with Actipron at 2.0 l in 200 l.  
02-Dec-91 : **T** : **FUNGICIDE** PR+IP: Sportak 45 at 1.1 l in 200 l.  
20-Feb-92 : B : 34.5% N at 220 kg.  
20-Mar-92 : B : 34.5% N at 290 kg.  
01-Apr-92 : **T** : **FUNGICIDE** PR+IP: Sportak 45 at 1.1 l in 200 l.  
04-Jun-92 : **T** : **FUNGICIDE** PR+IP: Rovral Flo at 2.0 l in 200 l.  
15-Jul-92 : B : Reglone at 3.0 l with Farmon Blue at 0.26 l in 260 l.  
22-Jul-92 : B : Combine harvested.

Previous crops: W. wheat 1990, w. barley 1991.

92/R/RAW/2

NOTE: Crop samples were taken in autumn, spring and summer to assess disease incidence. Glucosinolate levels and oil content of the grain were measured.

**GRAIN (AT 90% DRY MATTER) TONNES/HECTARE**

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

FUNGCIDE	NONE	PR+IP	Mean
<b>VARIETY</b>			
CAPRCORN	3.90	4.33	4.12
ENVOL	3.69	3.73	3.71
EUROL	3.70	4.05	3.88
FALCON	3.70	3.49	3.60
LIBRAVO	3.10	3.31	3.21
SAMOURAI	3.67	4.03	3.85
TAPIDOR	3.82	4.26	4.04
Mean	3.65	3.89	3.77

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

VARIETY	FUNGCIDE	VARIETY FUNGCIDE
0.141	0.075	0.199

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	39	0.282	7.5

GRAIN MEAN DM% 85.6

PLOT AREA HARVESTED 0.00483