

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED  
RESEARCH

## Yields of the Field Experiments 1990

[Full Table of Content](#)



---

### 90/R/RA/2 Varieties and Fungicides - W. Oilseed Rape

#### Rothamsted Research

Rothamsted Research (1991) *90/R/RA/2 Varieties and Fungicides - W. Oilseed Rape* ; Yields Of The Field Experiments 1990, pp 131 - 132 - DOI: <https://doi.org/10.23637/ERADOC-1-42>

90/R/RA/2

## WINTER OILSEED RAPE

### VARIETIES AND FUNGICIDES

**Object:** To investigate the effects of fungicides on a range of low glucosinolate varieties - Bylands/Black Horse I S.

**Sponsors:** C.J. Rawlinson, V.J. Church, C.H. Bock.

**Design:** 4 randomised blocks of 12 plots.

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

**Treatments:** All combinations of:-

1. **VARIETY** Varieties:

|          |           |
|----------|-----------|
| CAPRCORN | Capricorn |
| COBRA    | Cobra     |
| LIBRAVO  | Libravo   |
| LICTOR   | Lictor    |
| SCORE    | Score     |
| TAPIDOR  | Tapidor   |

2. **FUNGICIDE** Fungicides:

|          |                                                                                                          |
|----------|----------------------------------------------------------------------------------------------------------|
| NONE     | None                                                                                                     |
| PRO+IPRO | Prochloraz at 0.50 kg in 200 l on 7 Dec, 1989 and 28 Mar, 1990. Iprodione at 0.50 kg in 260 l on 23 May. |

**Basal applications:** Manures: (0:17:34) at 980 kg. 'Nitram' at 140 kg, later at 290 kg and a third time at 290 kg. Weedkillers: Diquat at 0.24 kg ion and paraquat at 0.36 kg ion in 180 l. Metazachlor at 0.75 kg in 200 l. Fluazifop-P-butyl at 0.19 kg with a wetting agent, 'Enhance' at 0.20 l, in 200 l. Benazolin at 0.30 kg and clopyralid at 0.05 kg in 200 l. Insecticides: Deltamethrin at 6.2 g in 200 l on two occasions. Triazophos at 0.42 kg in 260 l. Desiccant: Diquat at 0.60 kg ion with a wetting agent, 'Enhance' at 0.52 l, in 520 l (to two blocks only).

**Seed:** Varieties, sown at 8.0 kg.

90/R/RA/2

**Cultivations, etc.:-** PK applied: 18 July, 1989. Rotary cultivated: 19 July. Cultivated by rotary grubber: 2 Aug. Diquat and paraquat applied: 21 Aug. First N applied, rotary harrowed: 30 Aug. Seed sown: 31 Aug. Metazachlor applied: 4 Sept. Fluazifop-P-butyl with wetting agent applied: 17 Oct. First deltamethrin applied: 7 Nov. Second deltamethrin applied: 9 Nov. Second N applied: 16 Feb, 1990. Benazolin and clopyralid applied: 22 Feb. Third N applied: 14 Mar. Triazophos applied: 23 May. Desiccant with wetting agent applied (**FUNGCIDE** NONE plots of two blocks only): 12 July, and to **FUNGCIDE** PRO+IPRO plots of the same blocks: 17 July. Combine harvested (**FUNGCIDE** NONE plots in the two blocks given desiccant and wetting agent): 19 July, remaining plots in these blocks: 23 July. Other two blocks (except for **VARIETY** TAPIDOR) combine harvested: 2 Aug. **VARIETY** TAPIDOR, on these blocks, combine harvested: 11 Aug. Previous crops: W. wheat 1988, w. barley 1989.

**NOTE:** Disease assessments were made from November - July. Plant vigour and pollen beetle assessments were made in April and aborted pods were assessed in May. Glucosinolate and oil content of the seed were measured after harvest.

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

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

| <b>FUNGCIDE</b><br><b>VARIETY</b> | NONE | PRO+IPRO | Mean |
|-----------------------------------|------|----------|------|
| CAPRCORN                          | 2.28 | 2.71     | 2.49 |
| COBRA                             | 1.88 | 2.32     | 2.10 |
| LIBRAVO                           | 1.53 | 2.14     | 1.84 |
| LICTOR                            | 1.83 | 1.86     | 1.84 |
| SCORE                             | 2.30 | 2.22     | 2.26 |
| TAPIDOR                           | 1.61 | 2.44     | 2.03 |
| Mean                              | 1.91 | 2.28     | 2.09 |

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

| <b>VARIETY</b> | <b>FUNGCIDE</b> | <b>VARIETY</b><br><b>FUNGCIDE</b> |
|----------------|-----------------|-----------------------------------|
| 0.231          | 0.133           | 0.326                             |

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

| Stratum  | d.f. | s.e.  | cv%  |
|----------|------|-------|------|
| BLOCK.WP | 33   | 0.462 | 22.1 |

GRAIN MEAN DM% 87.3

PLOT AREA HARVESTED 0.00483