

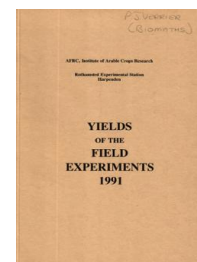
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## Yields of the Field Experiments 1991

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

#### Rothamsted Research

Rothamsted Research (1992) *91/R/RAW/2 Varieties and Fungicides - W. Oilseed Rape* ; Yields Of The Field Experiments 1991, pp 142 - 143 - DOI: <https://doi.org/10.23637/ERADOC-1-46>

91/R/RAW/2

**WINTER OILSEED RAPE**

**VARIETIES AND FUNGICIDES**

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

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

**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     |
| ENVOL    | Envol     |
| FALCON   | Falcon    |
| LIBRAVO  | Libravo   |
| SAMOURAI | Samourai  |

2. **FUNGICIDE** Fungicides:

|          |   |
|----------|---|
| NONE     | None  |
| PR+CA+IP | Prochloraz at 0.45 kg and carbendazim at 0.17 kg in 200 l on 3 Dec, 1990 and 8 Apr, 1991. Iprodione at 0.50 kg in 200 l on 17 June. |

**Basal applications:** Manure: 'Nitram' at 320 kg on two occasions.

Weedkillers: Paraquat at 0.40 kg ion with a wetting agent, 'Vassgro' at 0.06 l, in 200 l. Metazachlor at 0.75 kg in 200 l. Insecticide: Deltamethrin at 6.2 g and on a second occasion at 12.5 g both in 200 l. Desiccant: Diquat at 0.60 kg ion with a wetting agent, 'Vassgro' at 0.52 l, in 520 l.

**Seed:** Varieties sown at 120 seeds per square metre. Seed dressed with gamma-HCH, thiram and fenpropimorph except for **VARIETY** ENVOL, which was untreated.

**Cultivations, etc.:-** Heavy spring-tine cultivated: 31 July, 1990.

Paraquat with wetting agent applied, cultivated with rotary grubber: 3 Sept. Rotary harrowed, seed sown: 4 Sept. Metazachlor applied: 2 Oct. First deltamethrin applied: 23 Oct. First N applied: 26 Feb, 1991. Second N applied: 22 Mar. Second deltamethrin applied: 12 Apr. Desiccant with wetting agent applied: 7 Aug. Combine harvested: 13 Aug. Previous crops: W. wheat 1989, w. barley 1990. to post-harvest.

**NOTE:** Disease assessments were made from November to post-harvest. Plots were assessed for cabbage stem flea beetle damage in October and pollen beetle damage in April. Glucosinolate levels and oil content were measured.

91/R/RAW/2

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

| FUNGCIDE<br>VARIETY | NONE | PR+CA+IP | Mean |
|---------------------|------|----------|------|
| CAPRCORN            | 2.13 | 2.78     | 2.46 |
| COBRA               | 1.70 | 2.52     | 2.11 |
| ENVOL               | 1.93 | 2.68     | 2.30 |
| FALCON              | 2.28 | 2.73     | 2.50 |
| LIBRAVO             | 2.64 | 2.99     | 2.81 |
| SAMOURAI            | 1.78 | 2.67     | 2.22 |
| Mean                | 2.08 | 2.73     | 2.40 |

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

| VARIETY | FUNGCIDE | VARIETY<br>FUNGCIDE |
|---------|----------|---------------------|
| 0.159   | 0.092    | 0.225               |

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

| Stratum  | d.f. | s.e.  | cv%  |
|----------|------|-------|------|
| BLOCK.WP | 33   | 0.319 | 13.3 |

GRAIN MEAN DM% 88.5

PLOT AREA HARVESTED 0.00483