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

Rothamsted Research

Rothamsted Research (1993) *92/R/RAW/2 Varieties and Fungicides - W. Oilseed Rape* ; Yields Of The Field Experiments 1992, pp 123 - 124 - DOI: <https://doi.org/10.23637/ERADOC-1-47>

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 |
|----------------|------|-------|------|
| VARIETY | | | |
| 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