

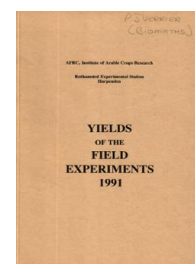
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91/R/RAW/2 Varieties and Fungicides - W. Oilseed Rape

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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 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 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