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

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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 *****

FUNGCIDE	NONE	PRO+IPRO	Mean
VARIETY			
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 ***

VARIETY	FUNGCIDE	VARIETY
		FUNGCIDE
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