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## Yields of the Field Experiments 1990

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

#### Rothamsted Research

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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. **FUNGCIDE** 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>	<b>NONE</b>	<b>PRO+IPRO</b>	<b>Mean</b>
<b>VARIETY</b>			
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> <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