

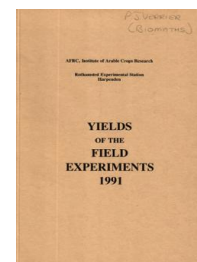
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# Yields of the Field Experiments 1991

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## 91/R/LN/1 Varieties and Fungicides - Linseed

### Rothamsted Research

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91/R/LN/1

LINSEED

VARIETIES AND FUNGICIDES

**Object:** To study the effects of fungicides on the incidence of diseases and on the yield of four varieties - Long Hoos I/II.

**Sponsors:** B.D.L. Fitt, H. Davies.

**Design:** 4 randomised blocks of 8 plots.

**Whole plot dimensions:** 3.0 x 15.0.

**Treatments:** All combinations of:-

1. **VARIETY** Varieties:

ANTARES	Antares
BARBARA	Barbara
NORLIN	Norlin
MCGREGOR	McGregor

2. **FUNGICIDE** Fungicides:

NONE	None
PR+IP+CM	Prochloraz (as seed dressing) at 0.40 g/kg seed Prochloraz at 0.32 kg in 200 l on 2 July, 1991 Iprodione at 0.50 kg in 200 l on 22 July Carbendazim at 0.25 kg and maneb at 1.6 kg in 220 l on 1 Aug

**Basal applications:** Manure: 'Nitram' at 220 kg. Weedkillers: Bromoxynil at 0.24 kg and clopyralid at 0.05 kg with bentazone at 0.96 kg in 200 l. Desiccant: Diquat at 0.60 kg ion with a wetting agent, 'Vassgro' at 0.40 l, in 400 l.

**Seed:** Varieties, sown at 600 seeds per square metre.

**Cultivations, etc.:-** Ploughed: 31 Oct, 1990. N applied: 9 Apr, 1991. Spring-tine cultivated, rotary harrowed, seed sown: 10 Apr. Weedkillers applied: 6 June. Desiccant with wetting agent applied: 2 Sept. Combine harvested: 10 Oct. Previous crops: Potatoes 1989, linseed 1990.

**NOTE:** The incidence of diseases was assessed regularly during the season. Oil content of harvested seed was measured.

91/R/LN/1

**GRAIN (AT 90% DRY MATTER) TONNES/HECTARE**

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

<b>FUNGCIDE</b>	NONE	PR+IP+CM	Mean
<b>VARIETY</b>			
ANTARES	2.22	2.43	2.32
BARBARA	2.43	2.37	2.40
NORLIN	1.50	1.85	1.67
MCGREGOR	1.67	2.13	1.90
Mean	1.95	2.19	2.07

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

<b>VARIETY</b>	<b>FUNGCIDE</b>	<b>VARIETY</b> <b>FUNGCIDE</b>
0.126	0.089	0.179

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	21	0.253	12.2

GRAIN MEAN DM% 85.7

PLOT AREA HARVESTED 0.00276