

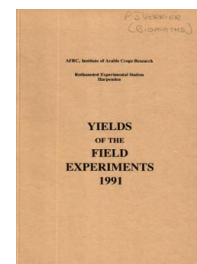
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1991

[Full Table of Content](#)



Linseed

Rothamsted Research

Rothamsted Research (1992) *Linseed* ; Yields Of The Field Experiments 1991, pp 163 - 168 - **DOI:** <https://doi.org/10.23637/ERADOC-1-46>

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 *****

FUNGCIDE VARIETY	NONE	PR+IP+CM	Mean
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 ***

VARIETY	FUNGCIDE	VARIETY FUNGCIDE
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

91/R/LN/2

LINSEED

FUNGICIDES AND DISEASE RESISTANCE

Object: To study the effects of different fungicides on the pathogens and yield of linseed - Long Hoos IV 4.

Sponsors: I. Vloutoglou, B.D.L. Fitt.

Design: 5 randomised blocks of 4 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments:

FUNGICIDE	Fungicides:
NONE	None
BENOMYL	Benomyl at 0.14 kg
IPRODION	Iprodione at 0.25 kg
PROCHLOR	Prochloraz at 0.16 kg

NOTE: Fungicides were applied in 220 l on 20 June, 1991, 10 and 23 July, 7 and 27 Aug.

Basal applications: Manure: 'Nitram' at 220 kg. Weedkillers: Bentazone at 0.96 kg with bromoxynil at 0.24 kg and clopyralid at 0.05 kg in 200 l. Desiccant: Diquat at 0.60 kg ion with wetting agent, 'Vassgro' at 0.4 l, in 400 l.

Seed: Antares undressed, sown at 600 seeds per square metre.

Cultivations, etc.:- Ploughed: 4 Sept, 1990. N applied: 9 Apr, 1991. Rotary harrowed, seed sown, rolled: 10 Apr. Weedkillers applied: 6 June. Desiccant with wetting agent applied: 2 Sept. Combine harvested: 11 Oct. Previous crops: S. barley 1989, w. wheat 1990.

NOTE: Foliar diseases were assessed throughout the growing season.

91/R/LN/2

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNGICIDE	
NONE	2.24
BENOMYL	2.59
IPRODION	2.50
PROCHLOR	2.67
Mean	2.50

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

FUNGICIDE
0.082

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.129	5.2
GRAIN MEAN DM%	87.1		
PLOT AREA HARVESTED	0.00230		

91/R/LN/4

LINSEED

RATES AND TIMES OF FUNGICIDE

Object: To study the effects of fungicide rates and timing on the control of pathogens and on the yield of linseed - White Horse II.

Sponsor: B.D.L. Fitt.

Design: 3 randomised blocks of 8 plots.

Whole plot dimensions: 3.0 x 15.0.

Treatments:

FUNG R T	Fungicides, rates and times of application:
NONE	None
PROC 4 E	Prochloraz at 400 g, applied early on 20 June, 1991
PROC 5 E	" " 500 g, " " " 20 June
PROC 4 L	" " 400 g, " later " 17 July
PROC 5 L	" " 500 g, " " " 17 July
P2E+P2L	" " 250 g, " early on 20 June and later on 17 July
P3E+FN6E	" " 394 g + fenpropimorph at 656 g applied early on 20 June
P3L+FN6L	Prochloraz + fenpropimorph at above rates applied later on 17 July

NOTE: Fungicides were applied in 200 l.

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: Antares, dressed prochloraz, sown at 600 seeds per square metre.

Cultivations, etc.:- Ploughed: 18 Oct, 1990. N applied: 9 Apr, 1991. Spring-tine cultivated, rotary harrowed, seed sown: 10 Apr. Weedkillers applied: 5 June. Desiccant with wetting agent applied: 2 Sept. Combine harvested: 9 Oct. Previous crops: W. wheat 1989 and 1990.

NOTE: The incidence of diseases was assessed regularly during the season.

91/R/LN/4

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNG R T	
NONE	1.52
PROC 4 E	1.77
PROC 5 E	1.51
PROC 4 L	1.54
PROC 5 L	1.85
P2E+P2L	1.58
P3E+FN6E	1.61
P3L+FN6L	1.76
Mean	1.64

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

FUNG R T
0.199

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	14	0.244	14.8
GRAIN MEAN DM%	84.7		
PLOT AREA HARVESTED	0.00345		