

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 1998

[Full Table of Content](#)



---

### 98/R/LN/3 Fungicides and Spring Linseed - Linseed

#### Rothamsted Research

Rothamsted Research (1999) *98/R/LN/3 Fungicides and Spring Linseed - Linseed* ; Yields Of The Field Experiments 1998, pp 155 - 157 - DOI: <https://doi.org/10.23637/ERADOC-1-52>

98/R/LN/3

**LINSEED**

**FUNGICIDES AND SPRING LINSEED**

**Object:** To test fungicidal spray programmes on spring linseed -  
Summerdells I.

**Sponsors:** B.D.L. Fitt.

**Design:** 2 blocks of 2 plots split into 3 x 3 + 3.

**Plot dimensions:** 3.0 x 15.0.

**Treatments:** All combinations of:-

1. **VARIETY**

A	Antares
J	Jupiter

Sub-plots

2. **FUNGICIDE** Target organism:

AL	<i>Alternaria</i>
BO	<i>Botrytis</i>
A+B	<i>Alternaria</i> and <i>Botrytis</i>

3. **TIMING** Fungicide timing:

MF	Mid-flowering
CD	Capsule development
F+C	Mid-flowering and capsule development

Plus two extra treatments

**EXTRA**

A	Antares with no fungicide (triplicated)
J	Jupiter with no fungicide (triplicated)

**Experimental diary:**

10-Sep-97 : B : PK as (0:20:32) at 1250 kg.  
09-Oct-97 : B : Ploughed and furrow pressed.  
16-Mar-98 : B : Parable at 3.0 l with Luxan Non-Ionic Wetter at 60 ml in  
200 l.  
29-Apr-98 : B : Spring-tine cultivated.  
29-Apr-98 : T : **VARIETY A**, **EXTRA A**: Rotary harrowed, Antares, dressed  
Prelude 20 LF, drilled at 700 seeds per m<sup>2</sup>.  
29-Apr-98 : T : **VARIETY J**, **EXTRA J**: Rotary harrowed, Jupiter, dressed  
Vitavax RS, drilled at 700 seeds per m<sup>2</sup>.  
14-May-98 : B : Cyperkill 10 at 250 ml in 200 l.  
01-Jun-98 : B : 34.5% N at 150 kg.

98/R/LN/3

**Experimental diary:**

24-Jun-98 : B : Vindex at 1.0 l in 200 l.  
 07-Jul-98 : T : **TIMING** MF, F+C, **FUNGICIDE** AL: Rovral Flo at 2.0 l in 220 l.  
           : T : **TIMING** MF, F+C, **FUNGICIDE** BO: Benlate Fungicide at 1.1 kg in 220 l.  
           : T : **TIMING** MF, F+C, **FUNGICIDE** A+B: Compass at 3.0 l in 220 l.  
 27-Jul-98 : T : **TIMING** CD, F+C, **FUNGICIDE** AL: Rovral Flo at 2.0 l in 220 l.  
           : T : **TIMING** CD, F+C, **FUNGICIDE** BO: Benlate Fungicide at 1.1 kg in 220 l.  
           : T : **TIMING** CD, F+C, **FUNGICIDE** A+B: Compass at 3.0 l in 220 l.  
 01-Sep-98 : B : Reglone at 3.0 l with Headland Enhance LF at 400 ml in 400 l.  
 21-Sep-98 : B : Combine harvested.

Previous crops: Set-aside 1996, s. wheat 1997.

**NOTE:** Disease assessments were made on four occasions in July and August. Grain was assessed for specific weight and fungal pathogens.

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

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

<b>TIMING</b>	MF	CD	F+C	Mean
<b>FUNGICIDE</b>				
AL	1.54	1.59	1.57	1.57
BO	1.94	1.75	2.00	1.90
A+B	2.03	1.78	2.08	1.96
Mean	1.84	1.71	1.88	1.81

<b>VARIETY</b>	A	J	Mean
<b>FUNGICIDE</b>			
AL	1.44	1.69	1.57
BO	1.80	1.99	1.90
A+B	1.91	2.02	1.96
Mean	1.72	1.90	1.81

<b>VARIETY</b>	A	J	Mean
<b>TIMING</b>			
MF	1.80	1.87	1.84
CD	1.59	1.83	1.71
F+C	1.76	2.01	1.88
Mean	1.72	1.90	1.81

98/R/LN/3

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

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

<b>TIMING</b>	MF		CD		F+C	
<b>VARIETY</b>	A	J	A	J	A	J
<b>FUNGCIDE</b>						
AL	1.43	1.64	1.48	1.70	1.41	1.73
BO	1.89	1.99	1.65	1.86	1.88	2.12
A+B	2.09	1.97	1.64	1.92	1.98	2.17
<b>EXTRA</b>	A	J	Mean			
	1.41	1.61	1.51			

Grand mean 1.73

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

<b>FUNGCIDE</b>	<b>TIMING</b>	<b>VARIETY*</b>	
		<b>FUNGCIDE</b>	
0.073	0.073	0.103	
<b>VARIETY*</b>	<b>FUNGCIDE</b>	<b>VARIETY*</b>	<b>EXTRA</b>
<b>TIMING</b>	<b>TIMING</b>	<b>FUNGCIDE</b>	
0.103	0.126	0.178	0.031

\* Within the same level of **VARIETY** only

SED for comparing **EXTRA** A or J with any item in **VARIETY.FUNGCIDE.TIMING** table is 0.145 within the same level of **VARIETY** only

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP.SP	26	0.178	10.3
GRAIN MEAN DM%	89.8		
PLOT AREA HARVESTED	0.00276		