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 readible, or you suspect there are some problems, please let us know and we will correct that.



Yields of the Field Experiments 2000



Full Table of Content

00/R/LNS/1 Fungicides and Spring Linseed

Rothamsted Research

Rothamsted Research (2001) 00/R/LNS/1 Fungicides and Spring Linseed; Yields Of The Field Experiments 2000, pp 161 - 163 - DOI: https://doi.org/10.23637/ERADOC-1-55

00/R/LNS/1

LINSEED

FUNGICIDES AND SPRING LINSEED

Object: To test fungicidal spray programmes on spring linseed - Drapers.

Sponsors: B.D.L. Fitt, S.A.M. Perryman.

Design: 2 blocks of 2 plots randomly split into 3 x 4 + 2.

Plot dimensions: 3.0 x 12.0.

Treatments: All combinations of:-

Whole plots: All combinations of:-

1. VARIETY

A Antares
J Jupiter

Sub-plots

2. FUNGICIDE Target organism and fungicides used:

AL Alternaria (Rovral Flo at 2.0 l in 220 l)
BO Botrytis (Benlate Fungicide at 1.1 kg in 220 l)
A+B Alternaria and Botrytis (Compass at 3.0 l in 220 l)

3. TIMING Fungicide timing:

P+M Pre-flowering and mid-flowering

MF Mid-flowering
CD Capsule development

M+C Mid-flowering and capsule development

Plus two extra treatments:

EXTRA

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

Experimental diary:

16-Mar-00 : B : : Rolled. Spring-tine cultivated.

02-May-00: T: A : Combination drilled, Antares, tr. Prelude 20 LF at 700

seeds/m2, with the Accord drill.

: T : J : Combination drilled, Jupiter, tr. Prelude 20 LF at 700

seeds/m2, with the Accord drill.

05-May-00 : B : : Rolled.

10-May-00 : B : : 34.5% N at 174 kg. Hallmark with Zeon Technology at

75 ml in 200 l.

12-May-00:B: : Hallmark with Zeon Technology at 75 ml in 200 l. 16-May-00:B: : Hallmark with Zeon Technology at 75 ml in 200 l.

00/R/LNS/1

Experimental diary:

27-Jun-00: T: P+M: Fungicides applied.

06-Jul-00 : T : M+C,MF,P+M : Fungicides applied.

21-Jul-00 : T : CD,M+C : Fungicides applied.

18-Aug-00 : B : : tm) Enhance Low Foam at 400 ml in 400 l. 18-Aug-00 : B : : tm) Reglone at 3.0 l in 400 l. 25-Aug-00 : B : : Combine harvested.

Previous crops: Linseed 1998, w. barley 1999.

NOTE: Crop samples were taken on four occasions from June to August for disease

assessments.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

| FUNGICIDE TIMING | AL | во | A+B | Mean | | |
|---------------------|------|------|------|------|------|------|
| | 0 00 | 1.36 | 1.12 | 1.13 | | |
| P+M | 0.92 | | | | | |
| MF | 1.04 | 1.06 | 1.12 | 1.07 | | |
| CD | 1.18 | 1.09 | 1.03 | 1.10 | | |
| F+C | 0.89 | 1.16 | 0.91 | 0.98 | | |
| Mean | 1.01 | 1.17 | 1.04 | 1.07 | | |
| VARIETY | A | J | Mean | | | |
| TIMING | •• | | | | | |
| P+M | 1.11 | 1.15 | 1.13 | | | |
| MF | 1.16 | 0.98 | 1.07 | | | |
| CD | 1.04 | 1.16 | 1.10 | | | |
| F+C | 0.96 | 1.00 | 0.98 | | | |
| 1+0 | 0.50 | 1.00 | 0.50 | | | |
| Mean | 1.07 | 1.07 | 1.07 | | | |
| VARIETY | А | J | Mean | | | |
| FUNGICIDE | A | U | Mean | | | |
| | 1 02 | 0.98 | 1.01 | | | |
| AL | 1.03 | | | | | |
| ВО | 1.18 | 1.16 | 1.17 | | | |
| A+B | 1.01 | 1.08 | 1.04 | | | |
| Mean | 1.07 | 1.07 | 1.07 | | | |
| FUNGICIDE | AL | | во | | A+B | |
| VARIETY | A | J | A | J | A | J |
| TIMING | | Č | •• | 0 | | |
| P+M | 0.96 | 0.87 | 1.24 | 1.48 | 1.13 | 1.11 |
| MF | 1.00 | 1.08 | 1.29 | | | 1.04 |
| CD | 1.32 | 1.05 | 1.03 | | | 1.27 |
| F+C | 0.83 | 0.94 | 1.15 | 1.17 | | 0.90 |
| 1+0 | 0.03 | 0.54 | 1.13 | 1.17 | 0.51 | 0.50 |
| EXTRA | A | J | Mean | | | |
| | 0.83 | 1.05 | 0.94 | | | |

Grand mean 1.05

00/R/LNS/1

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

| FUNGICIDE | TIMING | VARIETY* |
|-----------|-----------|-----------|
| | | FUNGICIDE |
| 0.090 | 0.104 | 0.127 |
| VARIETY* | FUNGICIDE | VARIETY* |
| TIMING | TIMING | FUNGICIDE |
| | | TIMING |
| 0.147 | 0.180 | 0.255 |

^{*} Within the same level of VARIETY only

S.e.d. for comparing ${\tt EXTRA}$ A or J with any item in ${\tt VARIETY.FUNGICIDE.TIMING}$ table is 0.220 within the same level of VARIETY only

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

 Stratum
 d.f.
 s.e.
 cv%

 BLOCK.WP.SP
 28
 0.255
 24.2

GRAIN MEAN DM% 80.5

PLOT AREA HARVESTED 0.00240