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Yields of the Field Experiments 1998

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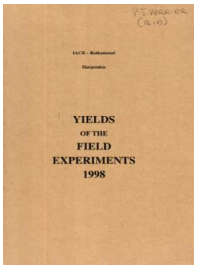

98/R/LN/3 Fungicides and Spring Linseed - Linseed

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**

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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. **FUNGCIDE** Target organism:

AL	*Alternaria*
BO	*Botrytis*
A+B	*Alternaria* and *Botrytis*

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^2.
29-Apr-98 : **T** : **VARIETY** J, **EXTRA** J: Rotary harrowed, Jupiter, dressed Vitavax RS, drilled at 700 seeds per m^2.
14-May-98 : B : Cyperkill 10 at 250 ml in 200 l.
01-Jun-98 : B : 34.5% N at 150 kg.

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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, **FUNGCIDE** AL: Rovral Flo at 2.0 l in 220 l.
: **T** : **TIMING** MF, F+C, **FUNGCIDE** BO: Benlate Fungicide at 1.1 kg in 220 l.
: **T** : **TIMING** MF, F+C, **FUNGCIDE** A+B: Compass at 3.0 l in 220 l.
27-Jul-98 : **T** : **TIMING** CD, F+C, **FUNGCIDE** AL: Rovral Flo at 2.0 l in 220 l.
: **T** : **TIMING** CD, F+C, **FUNGCIDE** BO: Benlate Fungicide at 1.1 kg in 220 l.
: **T** : **TIMING** CD, F+C, **FUNGCIDE** 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 *****

TIMING	MF	CD	F+C	Mean
FUNGCIDE				
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

VARIETY	A	J	Mean
FUNGCIDE			
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

VARIETY	A	J	Mean
TIMING			
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

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98/R/LN/3

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

TIMING	MF		CD		F+C	
VARIETY	A	J	A	J	A	J
FUNGCIDE						
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

EXTRA	A	J	Mean
	1.41	1.61	1.51

Grand mean 1.73

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

FUNGCIDE	**TIMING**	**VARIETY* FUNGCIDE**
0.073	0.073	0.103

VARIETY* TIMING	**FUNGCIDE TIMING**	**VARIETY* FUNGCIDE TIMING**	**EXTRA**
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

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