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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

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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. **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 m².
29-Apr-98 : T : **VARIETY J**, **EXTRA J**: Rotary harrowed, Jupiter, dressed
Vitavax RS, drilled at 700 seeds per m².
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 *****

| TIMING | MF | CD | F+C | Mean |
|------------------|------|------|------|------|
| FUNGICIDE | | | | |
| 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 |
|------------------|------|------|------|
| FUNGICIDE | | | |
| 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 |

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