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93/R/LN/1 Varieties and Disease - Linseed

Rothamsted Research

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93/R/LN/1

LINSEED

VARIETIES AND DISEASE

Object: To investigate the effects of pathogens on varieties of linseed - Sawyers II.

Sponsors: B.D.L. Fitt, J. Harold.

Design: 4 randomised blocks of 2 X 5 plots.

Whole plot dimensions: 3.0 x 15.0.

Treatments: All combinations of:-

1. **VARIETY** Varieties:

ANTARES
BARBARA
MCGREGOR
NORLIN
CD 1747

2. **FUNGICIDE** Fungicidal sprays:

NONE None
APPLIED Iprodione during flowering, prochloraz and carbendazim plus maneb post-flowering

NOTE: Basal fungicidal seed dressing (prochloraz) was applied.

Experimental diary:

22-Jan-93 : B : Ploughed.
19-Apr-93 : B : Heavy spring-tine cultivated.
20-Apr-93 : T : **VARIETY** ANTARES, BARBARA, MCGREGOR, NORLIN, CD 1747:
Rotary harrowed, varieties, dressed Prelude 20LF,
drilled at 700 seeds per square metre.
12-May-93 : B : 34.5% N at 220 kg.
13-May-93 : B : Decis at 0.30 l in 200 l.
01-Jun-93 : B : Ally at 30 g in 200 l.
28-Jun-93 : T : **FUNGICIDE** APPLIED: Rovral Flo at 2.0 l in 200 l.
22-Jul-93 : T : **FUNGICIDE** APPLIED: Sportak 45 at 0.90 l in 200 l.
: T : **FUNGICIDE** APPLIED: Tripart Defensor FL at 1.0 l in 200 l.
04-Aug-93 : T : **FUNGICIDE** APPLIED: Multi-W FL at 5.0 l in 200 l.
06-Sep-93 : B : Stefes Diquat at 3.0 l with Vassgro Spreader at 0.30 l
in 260 l.
23-Oct-93 : T : Combine harvested.

Previous crops: W. wheat 1991, s. wheat 1992.

93/R/LN/1

NOTE: Emergence counts were made. Samples taken fortnightly between June and October for visual assessment of disease and assessment of pathogenic fungi by isolation on agar. Plant populations prior to harvest and oil content of seed were measured.

GRAIN (AT 90% DM) TONNES/HECTARE

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

| FUNGCIDE VARIETY | NONE | APPLIED | Mean |
|---------------------|------|---------|------|
| ANTARES | 2.03 | 2.16 | 2.10 |
| BARBARA | 2.41 | 2.86 | 2.63 |
| MCGREGOR | 2.71 | 2.80 | 2.76 |
| NORLIN | 2.30 | 2.34 | 2.32 |
| CD 1747 | 2.38 | 2.75 | 2.56 |
| Mean | 2.37 | 2.58 | 2.47 |

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

| FUNGCIDE | VARIETY | FUNGCIDE VARIETY |
|----------|---------|---------------------|
| 0.070 | 0.111 | 0.157 |

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

| Stratum | d.f. | s.e. | cv% |
|----------|------|-------|-----|
| BLOCK.WP | 27 | 0.222 | 9.0 |

GRAIN MEAN DM% 87.1

PLOT AREA HARVESTED 0.00276