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98/R/LN/1 Winter Linseed Diseases - Linseed

Rothamsted Research

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98/R/LN/1

LINSEED

WINTER LINSEED DISEASES

Object: To assess the effects of diseases on the growth and yield of winter linseed by using fungicides to control them - Drapers.

Sponsors: B.D.L. Fitt.

Design: 3 blocks of 8 plots.

Plot dimensions: 3.0 x 15.0.

Treatments:

| FUNGTIME | Fungicides and timing: |
|----------|--|
| - | None |
| AF | Tebuconazole in autumn |
| BM | Benomyl mid-flowering |
| BMC | Benomyl mid-flowering and at capsule development |
| AM | Iprodione mid-flowering |
| AMC | Iprodione mid-flowering and at capsule development |
| CM | Iprodione with thiophanate-methyl mid flowering |
| CMC | Iprodione with thiophanate-methyl mid flowering and at capsule development |

Experimental diary:

10-Sep-97 : B : PK as (0:20:32) at 1250 kg.
18-Sep-97 : B : Ploughed and rolled.
30-Sep-97 : B : Rotary harrowed, Oliver, dressed Prelude 20 LF, drilled at 950 seeds per m².
26-Nov-97 : T : FUNGTIME AF: Folicur at 0.5 l in 220 l.
19-Feb-98 : B : Laser at 0.75 l with Chiltern Cropoil at 1.0 l in 100 l.
16-Mar-98 : B : Ally at 30 g in 200 l.
20-Mar-98 : B : 34.5% N at 150 kg.
22-Apr-98 : B : Eagle at 30 g in 200 l.
27-Apr-98 : B : BASF Dimethoate 40 at 850 ml in 200 l.
29-May-98 : T : FUNGTIME BM, BMC: Benlate Fungicide at 1.1 kg in 220 l.
 : T : FUNGTIME CM, CMC: Compass at 3.0 l in 220 l.
 : T : FUNGTIME AM, AMC: Rovral Flo at 2.0 l in 220 l.
25-Jun-98 : T : FUNGTIME BMC: Benlate Fungicide at 1.1 kg in 220 l.
 : T : FUNGTIME CMC: Compass at 3.0 l in 220 l.
 : T : FUNGTIME AMC: Rovral Flo at 2.0 l in 220 l.
25-Jul-98 : B : Reglone at 3.0 l with Headland Enhance LF at 400 ml in 200 l.
05-Aug-98 : B : Combine harvested.

Previous crops: W. and s. beans 1996, s. wheat 1997.

98/R/LN/1

NOTE: Disease assessments were made on eleven occasions through the growing season. At harvest thousand grain weights were measured and fungal pathogens on seeds were assessed.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNGTIME

| | |
|-----|------|
| - | 0.53 |
| AF | 0.70 |
| BM | 1.32 |
| BMC | 1.17 |
| AM | 0.85 |
| AMC | 0.56 |
| CM | 1.08 |
| CMC | 1.20 |

Mean 0.93

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

FUNGTIME

0.088

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

| Stratum | d.f. | s.e. | cv% |
|---------------------|---------|-------|------|
| BLOCK.WP | 14 | 0.108 | 11.6 |
| GRAIN MEAN DM% | 89.5 | | |
| PLOT AREA HARVESTED | 0.00276 | | |