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99/R/LNW/1 Winter Linseed Diseases - Linseed

Rothamsted Research

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99/R/RAW/9

WINTER OILSEED RAPE

FUNGICIDES AND STEM CANKER

Object: To study the epidemiology of stem canker (*leptosphaeria maculans*) under a one- and two-spray regime - Great Knott I.

Sponsors: J.S. West.

Design: 4 blocks of 2 plots.

Whole plot dimensions: 3.0 x 15.0.

Treatments:

FUNGICIDE

J Applied twice, autumn and late winter
N Applied once in autumn

Experimental diary:

13-Aug-98 : B : : Ploughed and furrow pressed, started.
14-Aug-98 : B : : Ploughed and furrow pressed, completed.
21-Aug-98 : : : : Rolled.
27-Aug-98 : B : : Combination drilled, Capitol, tr. Lindex-Plus FS Seed Treatment, at 120 seeds/m² with the Accord drill.
28-Aug-98 : B : : Rolled.
29-Aug-98 : B : : Doff Agricultural Slug Killer with Animal Repellent at 7.5 kg.
11-Sep-98 : B : : tm)Katamaran at 2.0 l in 200 l, started.
: B : : tm)Decis at 0.25 l in 200 l, started.
16-Sep-98 : B : : Hardy at 7.5 kg.
17-Sep-98 : B : : tm)Katamaran at 2.0 l in 200 l, completed.
: B : : tm)Decis at 0.25 l in 200 l, completed.
24-Sep-98 : B : : 34.5% N at 120 kg.
06-Nov-98 : B : : tm)Laser at 0.5 l in 200 l.
: B : : tm)Cropoil at 2.0 l in 200 l.
13-Nov-98 : B : : tm)Punch C at 0.4 l in 200 l.
: B : : tm)Stefes Cypermethrin 2 at 250 ml in 200 l.
16-Dec-98 : B : : Draza at 5.5 kg.
08-Feb-99 : B : : 34.5% N at 300 kg.
25-Feb-99 : T : J : Punch C at 0.4 l in 220 l.
05-Mar-99 : B : : 34.5% N at 300 kg.
30-Apr-99 : B : : Hallmark at 100 ml in 200 l.
09-Jul-99 : B : : tm)Reglone at 3.0 l in 400 l.
: B : : tm)Enhance at 400 ml in 400 l.
17-Jul-99 : B : : Combine harvested.

Previous crops: W. oats 1997, s. barley 1998.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

| FUNGICIDE | |
|-----------|------|
| J | 4.88 |
| N | 4.66 |
| Mean | 4.77 |

GRAIN MEAN DM% 88.9

PLOT AREA HARVESTED 0.00345

99/R/LNW/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 - Webbs.

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

Design: 3 blocks of 10 plots.

Plot dimensions: 3.0 x 15.0.

Treatments:

| DIS CONT | 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 |
| PM | Benomyl pre-flowering and mid-flowering |
| APM | Tebuconazole with Benomyl pre-flowering and mid-flowering |

Experimental diary:

| | | |
|-----------|--------------|--|
| 17-Sep-98 | : B : | : Farmyard manure at 4.0 t. |
| 23-Sep-98 | : B : | : Ploughed and furrow pressed. |
| 24-Sep-98 | : B : | : Ploughed, completed. |
| 09-Oct-98 | : B : | : Combination drilled, Oliver, tr. Prelude 20 LF, at 950 seeds/m ² with the Nordsten drill. |
| 13-Oct-98 | : B : | : Hardy at 10.0 kg. |
| 09-Dec-98 | : T : AF,APM | : Folicur at 0.5 l in 220 l. |
| 24-Mar-99 | : B : | : 34.5% N at 348 kg. |
| 25-Mar-99 | : B : | : tm)Laser at 1.0 l in 200 l. |
| | : B : | : tm)Cropoil at 2.0 l in 200 l. |
| 08-Apr-99 | : B : | : Eagle at 40 g in 200 l. |
| 14-May-99 | : T : APM,PM | : Benlate Fungicide at 1.1 kg in 220 l. |
| 07-Jun-99 | : T : AM,AMC | : Rovral Flo at 2.0 l in 220 l. |
| | : T : BM,BMC | : Benlate Fungicide at 1.1 kg in 220 l. |
| | : T : CM,CMC | : Compass at 3.0 l in 220 l. |
| | : T : APM,PM | : Benlate Fungicide at 1.1 kg in 220 l. |
| 23-Jun-99 | : T : AMC | : Rovral Flo at 2.0 l in 220 l. |
| | : T : BMC | : Benlate Fungicide at 1.1 kg in 220 l. |
| | : T : CMC | : Compass at 3.0 l in 220 l. |
| 09-Jul-99 | : B : | : tm)Reglone at 3.0 l in 400 l. |
| | : B : | : tm)Enhance at 400 ml in 400 l. |
| 24-Jul-99 | : B : | : Combine harvested. |

Previous crops: Maize 1997, w. barley 1998.