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96/R/RAS/3 Industrial Cultivars and Disease a - S. Oilseed Rape

Rothamsted Research

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96/R/RAS/3

SPRING OILSEED RAPE

INDUSTRIAL CULTIVARS AND DISEASE A

Object: To determine the effects of disease on the yield and quality of industrial rape cultivars - Bones Close.

Sponsors: K.J. Doughty, H.A. McCartney.

Design: 4 randomised blocks of 2 plots.

Whole plot dimensions: 3.0 x 17.0.

Treatments:

INOCFUNG Inoculation or fungicide applied:

I Inoculated with infected rape straw

F Iprodione, thiophanate-methyl and vinclozolin

Experimental diary:

18-Aug-95 : B : Wheat straw removed.

19-Jan-96 : B : Ploughed.

01-Apr-96 : B : Heavy spring-tine cultivated. Rotary harrowed, Industry, dressed Lindex-Plus FS, drilled at 180 seeds per m².

03-Apr-96 : B : Butisan S at 1.5 l in 200 l.

25-Apr-96 : B : Decis at 0.3 l in 200 l.

08-May-96 : B : 34.5% N at 290 kg.

13-May-96 : B : Cyperkill 10 at 250 ml in 200 l.

10-Jun-96 : B : Fastac at 200 ml in 320 l.

14-Jun-96 : T : **INOCFUNG** I: Inoculated with one bale of rape straw per plot.

05-Jul-96 : T : **INOCFUNG** F: Compass at 3.0 l in 200 l.

18-Jul-96 : T : **INOCFUNG** F: Ronilan FL at 1.5 l in 260 l.

28-Aug-96 : B : Combine harvested.

Previous crops: Potatoes 1994, w. wheat 1995.

NOTE: Plant samples were taken at harvest for assessment of diseases. Grain samples were analysed for oil content and fatty acids.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNGCIDE

I 1.18

F 1.13

Mean 1.16

GRAIN MEAN DM% 86.3

PLOT AREA HARVESTED 0.00391