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94/R/RAS/1 Spring Oilseed Rape and Sclerotinia - S. Oilseed Rape

Rothamsted Research

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94/R/RAS/1

SPRING OILSEED RAPE

SPRING OILSEED RAPE AND SCLEROTINIA

Object: To study the effects of the timing of ascospore release and spore concentrations of *Sclerotinia sclerotinium* on infection rates and disease development for s. oilseed rape - Great Field I/II.

Sponsors: A.H. McCartney, M. Lacey.

Design: 4 randomised blocks of 4 plots.

Whole plot dimensions: 9.0 x 10.0.

Treatments:

INOCULTN	Time of inoculation in relation to the flowering of the s. rape:
-	None
BF	Before flowering
DF	During flowering
AF	After flowering

NOTE: Inoculation was achieved by placing pots containing apothecia at the plot centres.

Experimental diary:

30-Sep-93 : B : Ploughed.
26-Mar-94 : B : Scythe at 4.0 l in 200 l.
20-Apr-94 : B : Spring-tine cultivated twice.
21-Apr-94 : B : Rotary harrowed, Starlight, dressed Lindex Plus FS, drilled at 160 seeds per m².
22-Apr-94 : B : Butisan S at 1.5 l in 200 l.
04-May-94 : B : 34.5% N at 348 kg.
02-Jun-94 : B : Benazalox at 1.0 kg in 200 l.
17-Jun-94 : B : Fastac at 200 ml in 200 l.
29-Jun-94 : T : INOCULTN BF: Inoculation started.
06-Jul-94 : T : INOCULTN DF: Inoculation started.
13-Jul-94 : T : INOCULTN AF: Inoculation started.
20-Jul-94 : T : INOCULTN BF, DF, AF: Inoculation completed.
24-Aug-94 : B : Combine harvested.

NOTE: Experiment was originally planned to be sown to w. rape. As the sowing date was delayed, w. rape was replaced by s. rape, within which the disease results proved inconclusive.

Previous crops: Sunflower 1992, linseed 1993.

94/R/RAS/1

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

INOCULTN	
-	2.08
BF	2.08
DF	2.41
AF	2.05
Mean	2.16

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

INOCULTN
0.486

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	9	0.687	31.9
GRAIN MEAN DM%	81.4		
PLOT AREA HARVESTED	0.00190		