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78/R/RA/2 Seed Dressings and Foliar Fungicides - Oilseed Rape

Rothamsted Research

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78/R/RA/2

WINTER OILSEED RAPE

SEED DRESSINGS AND FOLIAR FUNGICIDES

Object: To study the effects of two fungicides, applied as seed dressings and foliar sprays, on the incidence of foliar diseases and on the yield of winter oilseed rape - Gt. Field II.

Sponsor: C.J. Rawlinson.

Design: 2 randomised blocks of 3 plots split into 4.

Whole plot dimensions: 4.27 x 33.2.

Treatments: All combinations of:-

Whole plots

1. SEEDRESS	Seed dressings:
NONE	None
BENOMYL	Benomyl at 5 g per kg seed
TRIADIM	Triadimefon at 2 g per kg seed

Sub plots

2. FOLSPRAY	Foliar sprays:
NONE	None (duplicated)
BENOMYL	Benomyl at 1.12 kg
TRIADIM	Triadimefon at 0.25 kg

NOTE: Foliar sprays were applied on 28 April, 1978 in 340 l.

Basal applications: Manures: (10:24:24) at 310 kg, 'Nitro-Chalk 25' at 800 kg.
Weedkillers: Dalapon at 0.95 kg with propyzamide at 0.56 kg in 340 l.
Haulm desiccant: Diquat at 0.69 kg ion plus 'Agral' (a wetting agent) at 0.3 l in 220 l.

Seed: Primor, sown at 9 kg.

Cultivations, etc.: - Straw burnt: 5 Sept, 1977. Deep-tine cultivated twice, rotary harrowed: 6 Sept. NPK applied: 12 Sept. Seed sown, harrowed in and rolled: 15 Sept. Weedkiller applied: 28 Nov. N applied: 7 Mar, 1978. Desiccant applied: 4 Aug. Combine harvested: 11 Aug. Previous crops: Barley 1976 and 1977.

NOTE: Plots were scored for plant vigour, emergence, disease incidence and plant density at intervals during the growing season.

78/R/RA/2

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

FOLSPRAY	NONE	BENOMYL	TRIADIM	MEAN
SEEDRESS				
NONE	2.04	2.28	1.89	2.06
BENOMYL	2.00	2.22	2.04	2.07
TRIADIM	2.43	2.88	2.20	2.49
MEAN	2.16	2.46	2.04	2.21

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	FOLSPRAY	SEEDRESS* FOLSPRAY	
SED	0.292	0.505	MIN REP
	0.253	0.437	MAX-MIN

* WITHIN SAME LEVEL OF SEEDRESS ONLY
FOLSPRAY
MAX-MIN NONE V ANY OF REMAINDER
MIN REP ANY OF REMAINDER

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP.SP	12	0.505	22.9
GRAIN MEAN DM%	75.5		
SUB PLOT AREA HARVESTED	0.00232		