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80/R/RA/1 Winter Oilseed Rape Fungicides

Rothamsted Research

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80/R/RA/1

WINTER OILSEED RAPE

FUNGICIDES

Object: To study the effects of a range of fungicides on canker, light leaf spot, mildew and yield of winter oilseed rape - Summerdells I.

Sponsors: C.J. Rawlinson, G.R. Cayley.

Design: 3 randomised blocks of 18 plots.

Whole plot dimensions: 4.27 x 9.14.

Treatments: All combinations of:-

1. FUNGICIDE Fungicides applied at 0.5 kg a.i. on each occasion:

BENOMYL	Benomyl
BTS	'BTS 40542' (prochloraz)
CGA	'CGA 48988A' (metalaxyl)
IMAZALIL	Imazalil
THIABEND	Thiabendazole

2. APP TIME Times of applying fungicides:

AUT	Autumn on 13 November, 1979
SPNG	Spring on 27 February, 1980
AUT+SPNG	Autumn + spring

plus one extra treatment (three plots per block):

EXTRA

NONE No fungicides

Basal applications: Manures: (13.13.20) at 380 kg. 'Nitro-Chalk' at 750 kg. Weedkillers: Dalapon at 0.95 kg with propyzamide at 0.70 kg in 220 l. 3, 6-Dichloropicolinic acid with benazolin ('Benazolox' at 1.0 kg) in 250 l. Desiccant: Diquat at 0.56 kg in 220 l.

Seed: Primor, dressed with gamma HCH. Benomyl and thiram, sown at 9 kg.

Cultivations, etc.: - NPK applied, heavy spring-tine harrowed twice: 10 Sept, 1979. Chisel ploughed, rotary harrowed, seed sown, 11 Sept. Dalapon and propyzamide applied: 2 Nov. N applied: 20 Feb, 1980. 'Benazolox' applied: 29 Feb. Desiccant applied: 25 July. Hand harvested: 23 July. Previous crops: Winter oilseed rape 1978 and 1979.

- NOTES: (1) The crop was damaged by sparrows shortly before maturity and despite hand harvesting the grain yields presented reflect considerable loss from this cause. Straw yields were not affected and are presented as better indicators of the effects of treatments on crop growth.
- (2) Growth and disease assessments were made monthly from March until harvest.

80/R/RA/1

GRAIN TONNES/HECTARE

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

APP TIME FUNGICIDE	AUT	SPNG	AUT+SPNG	MEAN
BENOMYL	1.18	0.69	1.21	1.03
BTS	1.33	0.97	0.92	1.07
CGA	0.72	0.55	0.69	0.65
IMAZALIL	1.11	1.07	1.47	1.22
THIABEND	0.98	0.88	0.65	0.84
MEAN	1.06	0.83	0.99	0.96

NONE 0.64

GRAND MEAN 0.91

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

TABLE	FUNGICIDE	APP TIME	FUNGICIDE APP TIME & NONE
SED	0.155	0.120	0.269 0.220*

* FOR COMPARISONS INVOLVING NONE ONLY

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

STRATUM	DF	SE	CV%
BLOCK.WP	36	0.330	36.3

STRAW TONNES/HECTARE

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

APP TIME FUNGICIDE	AUT	SPNG	AUT+SPNG	MEAN
BENOMYL	6.45	5.35	7.56	6.45
BTS	6.96	5.45	6.02	6.14
CGA	4.39	3.43	4.09	3.97
IMAZALIL	6.03	5.91	7.95	6.63
THIABEND	5.24	4.90	5.05	5.06
MEAN	5.81	5.01	6.13	5.65

NONE 4.02

GRAND MEAN 5.38

PLOT AREA HARVESTED 0.000005