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Yields of the Field Experiments 1992



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Rothamsted Research

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92/R/RAW/6

WINTER OILSEED RAPE

LIGHT LEAF SPOT STUDY

Object: To study methods for the prediction and detection of early infection of light leaf spot (Pyrenopeziza brassicae) and subsequent effects on crop phenology and yield - Great Knott III.

Sponsors: L. Figueroa, B.D.L. Fitt.

Design: 4 randomised blocks of 6 plots split into 2 sub plots.

Whole plot dimensions: 9.0 x 21.0.

Treatments:

Whole plots

1. FUNGCIDE Time of fungicide application:

NONE None

PROCAUT Prochloraz in autumn
PROCWINT Prochloraz in winter
PROCSPR Prochloraz in spring
IPROSUM Iprodione in summer

PA+PS+IS Prochloraz in autumn and spring, iprodione in summer

Sub plots

2. VARIETY Varieties:

CAPRCORN Capricorn FALCON Falcon

Experimental diary:

28-Aug-91 : B : Straw chopped.

05-Sep-91 : B : Ploughed, rolled.

06-Sep-91 : T : VARIETY CAPRCORN: Rotary harrowed. Capricorn, dressed

Lindex-Plus FS, drilled at 9.7 kg.

06-Sep-91 : T : VARIETY FALCON: Rotary harrowed. Falcon, dressed

Lindex-Plus FS, drilled at 8.0 kg.

06-Sep-91 : B : Rolled.

13-Oct-91 : B : Pilot at 0.15 1 with Cropspray 11 E at 2.5 1 in 200 1.

11-Nov-91 : B : Benazalox at 0.75 kg and Butisan S at 1.5 1 in 200 1.

02-Dec-91 : T : FUNGCIDE PROCAUT, PA+PS+IS: Sportak 45 at 0.55 1 in

200 1.

17-Feb-92 : T : FUNGCIDE PROCWINT: Sportak 45 at 0.55 1 in 200 1.

19-Feb-92 : B : 34.5% N at 220 kg.

21-Feb-92 : B : Benazalox at 1.5 kg in 200 1.

25-Mar-92 : B : 34.5% N at 290 kg.

09-Apr-92 : T : FUNGCIDE PROCSPR, PA+PS+IS: Sportak 45 at 1.1 1 in

200 1.

04-Jun-92 : T : FUNGCIDE IPROSUM, PA+PS+IS: Rovral Flo at 2.0 1 in 200 1.

92/R/RAW/6

Experimental diary:

15-Jul-92:B:Reglone at 3.0 l with Farmon Blue at 0.26 l in 260 l. 20-Jul-92:B:Combine harvested.

Previous crops: W. wheat 1990 and 1991.

NOTE: Disease incidence on the crop was assessed at intervals during the growing season. Air-borne inoculation was monitored from autumn to spring using bait plants and a Burkard spore sampler. At harvest oil and glucosinolate levels in the seed were determined.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

FUNGCIDE VARIETY	NONE	PROCAUT	PROCWINT	PROCSPR	IPROSUM	PA+PS+IS	Mean
CAPRCORN	4.60	4.55	4.38	4.67	4.45	4.53	4.53
FALCON	3.75	3.91	3.68	3.96	3.68	4.06	3.84
Mean	4.18	4.23	4.03	4.31	4.07	4.29	4.18

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

	FUNGCIDE	VARIETY		FUNGCIDE VARIETY	
	0.220		0.077	0.257	
Except when	comparing means	with	the same	level(s)	of
FUNGCIDE				0.188	

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

Stratum	d.f.	s.e.	cv%	
BLOCK.WP	15	0.311	7.4	
BLOCK.WP.SP	18	0.266	6.4	

GRAIN MEAN DM% 79.3

SUB PLOT AREA HARVESTED 0.00483