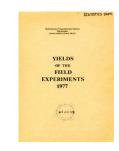
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Yields of the Field Experiments 1977



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Rothamsted Research

Rothamsted Research (1978) 77/R/B/8 Effects of Mildew Sources on Disease Control - Barley; Yields Of The Field Experiments 1977, pp 361 - 362 - DOI: https://doi.org/10.23637/ERADOC-1-29

77/R/B/8

SPRING BARLEY

EFFECTS OF MILDEW SOURCES ON DISEASE CONTROL

Object: To study the effects of nearby sources of mildew on control by fungicides applied at a range of times - Black Horse I.

Sponsors: J.F. Jenkyn, A. Bainbridge.

Design: 3 randomised blocks of 3 plots split into 6.

Whole plot dimensions: 22.9 x 29.9.

Treatments: All combinations of:-

Whole plots

1. MILDSRCE Mildew source:

NONE None (seed treated ethirimol, crop sprayed tridemorph,

on 9 June, 1977, 4 July)

EARLY Early (tridemorph only on 9 June, 4 July)

FULL Full (no mildew control)

Sub plots

2. MILDCONT Times of applying mildew control:

ED	Ethirimol seed dressing
	Tridemorph spray on:
T S 1	31 May
T S 2	9 June
T S 3	20 June
T S 4	24 June
T S 5	29 June

NOTES: (1) The whole plot treatments were applied to a strip of crop 6.4 m wide at the ends of all sub plots. There were no discards between sub plots (0.6 m fallow paths only). Whole plots and the sides of sets of six sub plots were separated by strips of crop 17 m wide, seed treated ethirimol, crop sprayed tridemorph at 0.53 kg in 340 l on 4 July.

(2) Treatment tridemorph sprays were applied at 0.53 kg in 340 1.

Basal applications: Manures: (20:14:14) at 470 kg, combine drilled. Weedkillers: Ioxynil at 0.53 kg with mecoprop at 1.6 kg in 220 l.

Seed: Julia, sown at 160 kg.

Cultivations, etc.:- Ploughed: 14 Oct, 1976. Spring-tine cultivated: 4 Mar, 1977. Seed sown: 7 Mar. Weedkillers applied: 15 May. Combine harvested: 26 Aug. Previous crops: Barley 1975 and 1976.

NOTE: Seedling counts were made and mildew was assessed on two occasions.

77/R/B/8

GRAIN TONNES/HECTARE

SUBPLOTS

**** TABLES OF MEANS ****

MILDCONT MILDSRCE	ED	T S 1	T S 2	T S 3	T S 4	T S 5	MEAN
NONE	5.73	5.81		5.86	5.84	5.40	5.73
EARLY FULL	4.97 5.53	5.49	5.71 5.57	5.23	5.27 5.75	5.11	5.30
MEAN	5.41	5.75	5.69	5.56	5.62	5.26	5.55

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

TABLE	MILDSRCE MILDCONT		MILDSRCE MILDCONT	
SED EXCEPT WHEN MILDSRCE	0.191 COMPARING MEANS	~ * 1		

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

STRATUM	DF	SE	CV%
BLOCK.WP	4	0.234	4.2
BLOCK.WP.SP	30	0.329	5.9

GRAIN MEAN DM% 79.1

SUB PLOT AREA HARVESTED 0.00163

WHOLE PLOTS

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

MILDSRCE	NONE	EARLY	FULL	MEAN
	5.64	5.13	5.22	5.33

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

TABLE	MILDSRCE
SED	0.095

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

STRATUM DF SE CV%
BLOCK.WP 4 0.116 2.2

GRAIN MEAN DM% 77.6

PLOT AREA HARVESTED 0.00611