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78/R/CS/211 Factors Affecting Eyespot - Wheat

Rothamsted Research

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78/R/CS/211

FACTORS AFFECTING EYESPOT

Object: To study the effects of a range of treatments on the incidence of eyespot (*Pseudocercospora herpotrichoides* previously *Cercospora herpotrichoides*) and on the yield of wheat - Meadow.

Sponsors: R.D. Prew, A. Bainbridge.

The first year, wheat.

Design: 2 randomised blocks of 2 whole plots split into 6.

Whole plot dimensions: 94.0 x 9.14.

Treatments: All combinations of:-

Whole plots

1. STRAW Treatment of straw in autumn 1977:

BURNT Burnt on site after spreading
CARTED Baled and carted off

Sub plots

2. DRILLING Cultivations and drilling:

CNVNTIAL Cultivated and conventionally drilled) Treatments
DIRECT Uncultivated, direct drilled) triplicated

- NOTES: (1) An intended test of three sowing dates on sub plots and three seed rates on sub sub plots was not made this year. Sub sub plots were all sown at 150 kg seed but were separately harvested.
(2) DRILLING CNVNTIAL plots: Ploughed: 31 Oct, 1977. Spring-tine cultivated, seed sown and harrowed in: 7 Nov.
(3) DRILLING DIRECT plots: Seed sown 7 Nov. Chain harrowed in: 8 Nov.
(4) Because of very poor establishment, yields were not taken from one sub plot of treatment combination STRAW CARTED, DRILLING DIRECT. An estimated value was used in the analysis.

Basal applications: Manures: (10:24:24) at 250 kg. 'Nitra-Shell 34' at 360 kg.
Weedkillers: Paraquat at 0.56 kg ion in 220 l. Methabenzthiazuron at 1.3 kg in 220 l.

Seed: Kador, sown at 150 kg.

Cultivations, etc.: - Straw treatments applied: 27 Sept, 1977. Paraquat applied: 11 Oct. Seed sown: 7 Nov. Methabenzthiazuron applied: 11 Nov. N applied: 7 Apr, 1978. Combine harvested: 30 Aug.

NOTE: Emergence counts were made and eyespot was assessed at intervals during the season.

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GRAIN TONNES/HECTARE

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

DRILLING STRAW	CNVNTIAL	DIRECT	MEAN
BURNT	5.05	5.03	5.04
CARTED	5.35	5.58	5.46
MEAN	5.20	5.30	5.25

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

TABLE	DRILLING	STRAW* DRILLING
SED	0.218	0.309

* WITHIN SAME LEVEL OF STRAW ONLY

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

STRATUM	DF	SE	CV%
BLOCK.WP.SP	17	0.535	10.2

GRAIN MEAN DM% 84.8

SUB PLOT AREA HARVESTED 0.00257