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86/R/WW/8 Burning and Eyespot - W. Wheat

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86/R/WW/8

WINTER WHEAT

BURNING AND EYESPOT

Object: To study the effects of straw burning, and contamination of burnt plots with chopped straw on the incidence of eyespot in winter wheat - Great Harpenden I.

Sponsors: J.F. Jenkyn, T.L. Feekins.

Design: 8 randomised blocks of 3 plots.

Whole plot dimensions: 6.0 x 10.0.

Treatments:

STRAW Straw treatments:

BALED Straw baled and carted

BURNT Straw spread and burnt

BUR+SPR Straw spread and burnt, chopped straw from adjacent same crop spread

- NOTES: (1) Straw treatments other than chopped and spread of BUR+SPR were applied on 12 Sept, 1985.
(2) Chopped and spread straw treatment was applied on 26 Sept.
(3) Chopped straw was applied at 2.28 t dry matter.

Basal applications: Manures: Muriate of potash at 830 kg. 'Nitram' at 600 kg. Weedkillers: Paraquat at 0.60 kg ion in 200 l. Isoproturon at 2.1 kg, clopyralid at 0.07 kg, bromoxynil octanoate at 0.34 kg and mecoprop at 2.5 kg in 200 l. Growth regulator: Chlormequat at 1.6 kg in 200 l. Desiccant: Glyphosate at 1.4 kg in 200 l.

Seed: Rapier, sown at 190 kg.

Cultivations, etc.: Paraquat applied: 23 Sept, 1985. Heavy spring-tine cultivated three times: 26 Sept. Muriate of potash applied: 27 Sept. Spring-tine cultivated, seed sown: 8 Oct. N applied: 28 Apr, 1986. Weedkillers applied: 29 Apr. Growth regulator applied: 19 May. Desiccant applied: 13 Aug. Combine harvested: 30 Aug. Previous crops: Potatoes 1984, w. wheat 1985.

NOTE: Plant samples were taken in spring and summer to assess eyespot incidence.

86/R/WW/8

GRAIN TONNES/HECTARE

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

STRAW	BALED	BURNT	BUR+SPR	MEAN
	8.52	9.04	8.91	8.82

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

TABLE	STRAW
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SED	0.229

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

STRATUM	DF	SE	CV%
BLOCK	7	0.223	2.5
BLOCK.WP	14	0.457	5.2

GRAIN MEAN DM% 79.0

PLOT AREA HARVESTED 0.00211