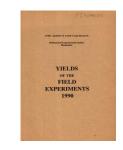
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# Yields of the Field Experiments 1990



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# 90/R/WW/7 Straw Treatment and Eyespot - W. Wheat

## **Rothamsted Research**

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#### 90/R/WW/7

#### WINTER WHEAT

#### STRAW TREATMENT AND EYESPOT

Object: To study the effects of straw treatment and sowing depth on eyespot development and on the yield of w. wheat - W. Barnfield I.

Sponsors: J.F. Jenkyn, M. Jalaluddin.

Design: 3 randomised blocks of 8 plots.

Whole plot dimensions:  $10.0 \times 10.0$ .

Treatments: All combinations of:-

STRAW Straw treatment, on 24 Aug, 1989:

BALED Baled BURNT Burnt

CHOP 1 Chopped at normal rate

CHOP 2 Chopped at twice normal rate

2. SOWDEPTH Depths of sowing seed (cm):

SHALLOW 3.5 DEEP 7.0

NOTE: All plots were shallow cultivated (10 cm) by rotary grubber on 25 Aug, 1989, after application of straw treatments.

Basal applications: Manure: 'Nitram' at 580 kg. Weedkillers:
Glyphosate at 0.27 kg in 200 l. Chlorotoluron at 3.0 kg with
cyanazine at 0.75 kg in 200 l. Bromoxynil at 0.34 kg and clopyralid
at 0.07 kg with fluroxypyr at 0.15 kg in 200 l.

Seed: Pastiche, sown at 190 kg.

Cultivations, etc.:- Glyphosate applied: 21 Sept, 1989. Spiked rotary cultivated: 10 Oct. Seed sown: 12 Oct. Chlorotoluron with cyanazine applied: 10 Nov. N applied: 12 Apr, 1990. Bromoxynil, clopyralid and fluroxypyr applied: 3 May. Combine harvested: 13 Aug. Previous crops: W. wheat 1988 and 1989.

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

## 90/R/WW/7

#### GRAIN TONNES/HECTARE

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

STRAWTRT SOWDEPTH	BALED	BURNT	CHOP 1	CHOP 2	Mean
SHALLOW	6.63	7.20	6.26	6.57	6.67
DEEP	6.55	7.41	6.51	6.57	6.76
Mean	6.59	7.30	6.38	6.57	6.71

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

STRAWTRT	SOWDEPTH	STRAWTRT	
		SOWDEPTH	
0.308	0.218	0.436	

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

 Stratum
 d.f.
 s.e.
 cv%

 BLOCK.WP
 14
 0.533
 7.9

GRAIN MEAN DM% 89.8

PLOT AREA HARVESTED 0.00230