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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 x 10.0.

**Treatments:** All combinations of:-

1. **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<br>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<br>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