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RESEARCH

## Yields of the Field Experiments 1982

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### 82/R/B/3 Effects of Straw - Winter Barley

#### Rothamsted Research

Rothamsted Research (1983) *82/R/B/3 Effects of Straw - Winter Barley* ; Yields Of The Field Experiments 1982, pp 265 - 266 - DOI: <https://doi.org/10.23637/ERADOC-1-33>

82/R/B/3

WINTER BARLEY

EFFECTS OF STRAW

Object: To compare the effects of inoculating the seedbed with wheat and barley straw on seedling growth, foliar diseases and on the yield of w. barley - Bones Close.

Sponsors: J.F. Jenkyn, O.J. Stedman, A. Bainbridge, G.V. Dyke.

Design: 4 randomised blocks of 5 plots.

Whole plot dimensions: 4.0 x 10.0.

Treatments:

STRAW	Straw inoculum to seedbed:
NONE	None (duplicated)
BARLEY O	Barley, unsterilised
BARLEY S	Barley, sterilised by steam
WHEAT O	Wheat, unsterilised

NOTES: (1) Plots, sown with Maris Otter, were surrounded by Igri, dressed with triadimenol plus fuberidazole, sown at 160 kg; 4 m at the sides of each plot and 26 m between blocks.  
(2) Straw treatments were applied at 575 kg worked into the seedbed by rotary harrow.

Basal applications: Manures: 'Nitro-Chalk' at 160 kg followed by 370 kg.  
Weedkillers: Glyphosate at 1.4 kg in 250 l. Methabenzthiazuron at 1.6 kg in 250 l. Diquat at 0.5 kg ion in 250 l.

Seed: Maris Otter, sown at 160 kg.

Cultivations, etc.: - Glyphosate applied: 16 Sept, 1981. Ploughed: 28 Sept. Spring-tine cultivated: 8 Oct. First N applied, rotary harrowed, seed sown: 14 Oct. Methabenzthiazuron applied: 16 Oct. Second N applied: 21 Apr, 1982. Diquat applied: 24 July. Combine harvested: 26 July. Previous crops: Grass 1980, w. wheat 1981.

NOTES: (1) Leaf diseases were assessed at intervals between December and June.  
(2) Yields were taken from the inter plot surrounds sown with Igri. The mean value of the two Igri areas adjacent to each yield plot have been used to adjust the presented results.

82/R/B/3

GRAIN TONNES/HECTARE

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

STRAW	NONE	BARLEY O	BARLEY S	WHEAT O	MEAN
	5.74	5.48	5.62	5.69	5.65

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

TABLE	STRAW
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SED	0.191 MIN REP
	0.166 MAX-MIN

	STRAW
MAX-MIN	NONE V ANY OF THE REMAINDER
MIN REP	ANY OF THE REMAINDER

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

STRATUM	DF	SE	CV%
BLOCK.WP	12	0.266	4.7

GRAIN MEAN DM% 84.2

PLOT AREA HARVESTED 0.00275