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# Yields of the Field Experiments 2001

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Yields of the  
Classical  
and other  
Long-term Experiments  
2001

IRACR - Rothamsted

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## 01/W/CS/478 - Woburn Continuous Maize

### Rothamsted Research

Rothamsted Research (2002) *01/W/CS/478 - Woburn Continuous Maize* ; Yields Of The Field Experiments 2001, pp 53 - 54 - DOI: <https://doi.org/10.23637/ERADOC-1-258>

01/W/CS/478

**CONTINUOUS MAIZE**

**Object:** To monitor the fate of organic carbon in the soil organic matter -  
Woburn, Stackyard A I.

**Sponsors:** P.R. Poulton, J. Gaunt.

The fifth year, forage maize and s. barley.

For previous years see 97-00/W/CS/478.

**Design:** 3 randomised blocks of 6 plots.

**Plot dimensions:** 9.0 x 25.0.

**Treatments:**

<b>CROP</b>	<b>Crop and straw treatments:</b>
M	Continuous maize, stubble incorporated
MB	Maize, stubble incorporated then s. barley after five years
MTB	Maize, stubble plus 10 t maize tops incorporated, then s. barley after five years
(B)M	Maize after three years of spring barley, straw removed
BTM	Continuous spring barley, straw removed plus 10 t maize tops incorporated
B	Continuous spring barley, straw removed

**Experimental diary:**

10-Oct-00 : **T** : BTM, MTB: Maize tops applied at 225 kg per plot.  
20-Oct-00 : **B** : : Potassium sulphate at 217 kg.  
: **B** : : Triple superphosphate at 171 kg.  
16-Jan-01 : **B** : : Ploughed, /w.  
09-Apr-01 : **B** : : Flexitined.  
12-Apr-01 : **T** : B, BTM: Combination drilled, Optic, tr. Raxil S, at 350  
s/m<sup>2</sup> with the Accord drill.  
13-Apr-01 : **T** : B, BTM: Stomp 400 SC at 2.0 l in 200 l.  
22-May-01 : **T** : : Rotary harrowed.  
: **T** : M, MB, MTB, (B)M: Drilled, Orient, tr. Mesurool, at 10  
s/m<sup>2</sup> with the Nodet drill.  
06-Jun-01 : **B** : : 33.5% N at 286 kg.  
19-Jun-01 : **T** : B, BTM: Harmony M at 40 g in 200 l.  
05-Jul-01 : **T** : M, MB, MTB, (B)M: Barclay Mutiny at 2.4 l in 200 l.  
11-Sep-01 : **T** : B, BTM: Combine harvested plots for yield, and discards,  
and swathed straw.  
17-Sep-01 : **B** : B, BTM: Baled and carted straw.  
29-Oct-01 : **T** : M, MB, MTB, (B)M: Hand harvested, weighed and sampled.  
30-Oct-01 : **T** : M, MB, MTB, (B)M: Harvested remaining maize with maize  
harvester.

Note: Forage maize and barley grain samples taken for N analysis.

**01/W/CS/478 MAIZE**

**WHOLE CROP TONNES/HECTARE**

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

<b>Treatment</b>	
M	11.00
MB	12.12
MTB	12.12
(B)M	13.21
Mean	12.11

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

<b>Treatment</b>
1.631

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

Stratum	d.f.	s.e.	cv%
Blocks.Plots	6	1.998	16.5
GRAIN MEAN DM%	42.6		
PLOT AREA HARVESTED	0.00108		

**S. BARLEY**

**GRAIN TONNES/HECTARE**

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

<b>Treatment</b>	
BTM	1.40
B	1.03
Mean	1.21

GRAIN MEAN DM% 84.9

PLOT AREA HARVESTED 0.00600