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## Yields of the Field Experiments 2000

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### 00/W/CS/478 Continuous Maize - Forage Maize, S. Barley

#### Rothamsted Research

Rothamsted Research (2001) *00/W/CS/478 Continuous Maize - Forage Maize, S. Barley* ; Yields Of The Field Experiments 2000, pp 86 - 87 - DOI: <https://doi.org/10.23637/ERADOC-1-55>

00/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 fourth year, forage maize and s. barley.

For previous years see 97-99/W/CS/478.

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

**Plot dimensions:** 9.0 x 25.0.

**Treatments:**

CROP	Crop and straw treatments:
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:**

28-Sep-99 : T : BTM,MTB : Chopped maize tops at 10 t.  
18-Oct-99 : B : : Ploughed.  
13-Mar-00 : T : B,BTM: Combination drilled, Optic, tr. Raxil S, at 350  
seeds/m<sup>2</sup> with the Accord drill.  
14-Mar-00 : T : B,BTM : Rolled.  
08-May-00 : T : M,MB,MTB,(B)M : PDQ at 4.0 l in 200 l.  
17-May-00 : T : M,MB,MTB,(B)M : Rotary harrowed. Drilled, Hudson, tr.  
Mesurol, at 10.2 seeds/m<sup>2</sup> with Nodet Gougis drill.  
25-May-00 : B : : 33.5% N at 286 kg.  
16-Jun-00 : T : M,MB,MTB,(B)M : tm)Gesaprim at 3.0 l in 200 l.  
: T : M,MB,MTB,(B)M : tm)Toil at 3.0 l in 200 l.  
20-Jun-00 : T : B,BTM : tm)Ally at 30 g in 200 l.  
: T : B,BTM : tm)Starane 2 at 0.75 l in 200 l.  
26-Jun-00 : T : B,BTM : Opus at 0.75 l in 200 l.  
21-Aug-00 : T : B,BTM : Combine harvested.  
02-Oct-00 : T : M,MB,MTB,(B)M :Hand harvested.

**NOTE:** Samples of whole crop maize and barley grain and straw were taken for  
chemical analysis.

00/W/CS/478 MAIZE

GRAIN TONNES/HECTARE

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

CROP	
M	12.61
MB	12.83
MTB	13.89
(B)M	12.35
Mean	12.92

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

CROP
0.906

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	6	1.110	8.6
GRAIN MEAN DM%	31.3		
PLOT AREA HARVESTED	0.00108		

S. BARLEY

GRAIN TONNES/HECTARE

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

CROP	
BTM	0.99
B	0.65
Mean	0.82

GRAIN MEAN DM% 79.5

PLOT AREA HARVESTED 0.00600