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## Yields of the Field Experiments 1997

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### 97/R/CS/477 Continuous Maize - Maize, S. Barley

#### Rothamsted Research

Rothamsted Research (1998) *97/R/CS/477 Continuous Maize - Maize, S. Barley* ; Yields Of The Field Experiments 1997, pp 96 - 97 - DOI: <https://doi.org/10.23637/ERADOC-1-53>

97/R/CS/477

**CONTINUOUS MAIZE**

**Object:** To monitor the fate of organic carbon in the soil organic matter - Hoosfield.

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

The first year, maize and s. barley.

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

**Plot dimensions:** 12.0 x 25.0.

**Treatments:-**

CROP	Crop and straw treatments:
BM	Spring barley, straw removed then maize after three years
BTM	Continuous spring barley, straw removed plus 10 t maize tops incorporated, then s. barley after five years
B	Continuous spring barley, straw removed
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

**Experimental diary:**

17-Dec-96 : B : Ploughed.  
12-Mar-97 : B : Spring-tine cultivated.  
13-Mar-97 : T : CROP BM, BTM, B: Rotary harrowed, Cooper, dressed Raxil S, drilled at 350 seeds per m<sup>2</sup>.  
22-Apr-97 : B : 34.5% N at 290 kg.  
23-Apr-97 : T : CROP M, MB, MTB: Rotary harrowed, Hudson, dressed MesuroI, drilled at 11 seeds per m<sup>2</sup>.  
09-Jun-97 : T : CROP M, MB, MTB: Barclay Mutiny at 1.5 l in 300 l.  
24-Jul-97 : B : Hand rogued wild oats.  
21-Aug-97 : T : CROP BM, BTM, B: Combine harvested.  
17-Sep-97 : T : CROP M, MB, MTB: Hand harvested.

Previous crops: Linseed 1995 and 1996.

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

97/R/CS/477 MAIZE

WHOLE CROP YIELD TONNES/HECTARE

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

CROP	
M	9.25
MB	10.71
MTB	9.18
Mean	9.71

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

CROP
0.802

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	4	0.983	10.1
CROP MEAN DM%	29.7		
PLOT AREA HARVESTED	0.00108		

BARLEY

GRAIN TONNES/HECTARE

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

CROP	
BM	6.56
BTM	6.46
B	6.34
Mean	6.45

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

CROP
0.263

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	4	0.323	5.0
GRAIN MEAN DM%	87.5		
PLOT AREA HARVESTED	0.00600		