

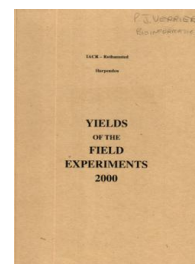
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 2000

[Full Table of Content](#)



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/m² 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/m² 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