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Yields of the Field Experiments 2001

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Yields of the
Classical
and other
Long-term Experiments
2001

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01/W/CS/478 - Woburn Continuous Maize

Rothamsted Research

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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:

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:

10-Oct-00 : T : BTM: 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/m² 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. Mesuro1, at 10
s/m² 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 *****

Treatment	
M	11.00
MB	12.12
MTB	12.12
(B)M	13.21
Mean	12.11

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

Treatment	
	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 *****

Treatment	
BTM	1.40
B	1.03
Mean	1.21

GRAIN MEAN DM% 84.9

PLOT AREA HARVESTED 0.00600