

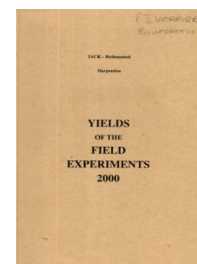
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00/W/CS/478 Continuous Maize - Forage Maize, S. Barley

Rothamsted Research

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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