

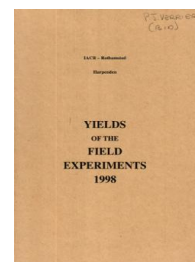
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98/W/CS/478 Continuous Maize - Maize, S. Barley

Rothamsted Research

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98/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 second year, maize and s. barley.

Design: 3 randomised blocks of 6 plots.

Plot dimensions: 9.0 x 25.0.

Treatments:

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

29-Sep-97 : T : CROP MTB, BTM: Chopped maize tops at 10 t.
 : B : PK as (0:20:32) at 235 kg and (0:24:24) at 138 kg.
20-Oct-97 : B : Ploughed.
24-Mar-98 : B : Rotary harrowed.
24-Mar-98 : T : CROP BM, BTM, B: Copper, dressed Raxil S, drilled at 375 seeds per m².
13-May-98 : B : 34.5% N at 278 kg.
14-May-98 : T : CROP M, MB, MTB: Rotary harrowed, Hudson, dressed Thiram and Methiocare, drilled at 10.9 seeds per m².
20-May-98 : T : CROP BM, BTM, B: Asset at 2.0 l with Astix at 1.0 l in 200 l. Opus at 0.2 l in 200 l.
14-Aug-98 : T : CROP BM, BTM, B: Combine harvested.
15-Sep-98 : T : CROP M, MB, MTB: Hand harvested.

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

98/W/CS/478 MAIZE

WHOLE CROP YIELD TONNES/HECTARE

***** TABLES OF MEANS *****

CROP	
M	9.49
MB	10.49
MTB	10.95
Mean	10.31

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

CROP	
	0.470

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	4	0.576	5.6
CROP MEAN DM%	29.7		
PLOT AREA HARVESTED	0.00108		

BARLEY

GRAIN TONNES/HECTARE

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

CROP	
BM	1.51
BTM	2.18
B	1.65
Mean	1.78

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

CROP	
	0.455

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	4	0.557	31.4
GRAIN MEAN DM%	86.7		
PLOT AREA HARVESTED	0.00575		