

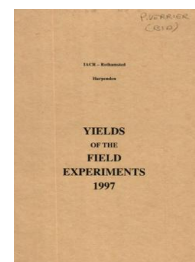
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Yields of the Field Experiments 1997

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

Rothamsted Research

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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 m².
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 m².
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