

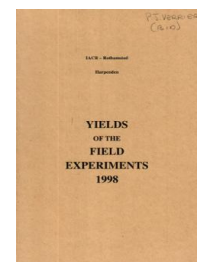
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98/R/CS/477 Continuous Maize - Maize, S. Barley

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98/R/CS/477

CONTINUOUS MAIZE

Object: To monitor the fate of organic carbon in the soil organic matter - Hoosfield.

Sponsors: P.R. Poulton, J.L. Gaunt.

The second 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
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:

19-Sep-97 : T : CROP BTM, MTB: Chopped maize tops at 10 t.
15-Oct-97 : B : Muriate of potash at 180 kg and triple superphosphate at 170 kg.
16-Oct-97 : B : Ploughed.
18-Mar-98 : B : Roundup at 3.0 l in 200 l.
01-Apr-98 : B : Spring-tine cultivated.
 : T : CROP BM, BTM, B: Rotary harrowed, Cooper, dressed Raxil S, drilled at 350 seeds per m².
29-Apr-98 : B : 34.5% N at 275 kg.
07-May-98 : T : CROP M, MB, MTB: Rotary harrowed, Hudson, dressed Mesurol, drilled at 11 seeds per m².
04-Jun-98 : T : CROP BM, BTM, B: MSS Optica at 2.0 l with Corbel at 0.3 l and Opus at 0.3 l in 200 l.
28-Jun-98 : T : Gesaprim 500 SC at 3.0 l with Chiltern Cropoil at 5.0 l in 200 l.
28-Aug-98 : T : CROP BM, BTM, B: Combine harvested.
16-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/R/CS/477 MAIZE

WHOLE CROP YIELD TONNES/HECTARE

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

CROP	
M	10.39
MB	10.71
MTB	10.16
Mean	10.42

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

CROP
0.568

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	4	0.695	6.7
CROP MEAN DM%	23.4		
PLOT AREA HARVESTED	0.00108		

S. BARLEY

GRAIN TONNES/HECTARE

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

CROP	
BM	5.17
BTM	4.90
B	4.80
Mean	4.95

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

CROP
0.188

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	4	0.230	4.6
GRAIN MEAN DM%	86.1		
PLOT AREA HARVESTED	0.00575		