

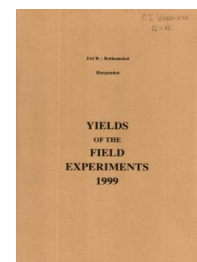
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99/R/CS/477 Continuous Maize - Forage Maize, Barley

Rothamsted Research

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99/R/CS/476

GRAIN TONNES/HECTARE

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

FUNG98	(F98)	(-98)	Mean
FUNG97			
(F97)	6.26	6.00	6.13
(-97)	5.95	6.01	5.98
Mean	6.10	6.01	6.06

FUNG99	F99	-99	Mean
FUNG97			
(F97)	6.45	5.81	6.13
(-97)	6.24	5.72	5.98
Mean	6.35	5.77	6.06

FUNG99	F99	-99	Mean
FUNG98			
(F98)	6.44	5.76	6.10
(-98)	6.25	5.77	6.01
Mean	6.35	5.77	6.06

FUNG97	FUNG99	F99	-99
(F97)	FUNG98		
	(F98)	6.26	6.26
	(-98)	6.65	5.36
(-97)	(F98)	6.63	5.26
	(-98)	5.84	6.18

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

FUNG97	FUNG98	FUNG99	FUNG97
0.359	0.359	0.359	FUNG98
			0.508
FUNG97	FUNG98	FUNG97	
FUNG99	FUNG99	FUNG98	
0.508	0.508	0.718	FUNG99

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	21	1.015	16.8
GRAIN MEAN DM%	87.0		
PLOT AREA HARVESTED	0.00227		

99/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 third year, forage maize and s. barley.

For previous years see 97-98/R/CS/477

Design: 3 randomised blocks of 6 plots.

Plot dimensions: 12.0 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
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

Experimental diary:

17-Sep-98	: T : BTM,MTB	: 10 t maize tops spread, finished 18-Sep.
23-Sep-98	: B :	: Muriate of potash at 167 kg.
	: B :	: Triple superphosphate at 171 kg.
20-Oct-98	: B :	: Ploughed, started.
21-Oct-98	: B :	: Ploughed, completed.
06-Apr-99	: B :	: Spring-tined.
16-Apr-99	: T : B,BM,BTM	: Combination drilled, Cooper, tr. Raxil S, at 350 seeds per m ² with the Accord drill.
05-May-99	: B :	: 34.5% N at 275 kg.
	: T : M,MB,MTB	: Rotary harrowed.
	: T : M,MB,MTB	: Hudson, tr. Mesuro1, drilled at 11 seeds/m ² with the Nodet Gougis drill
06-May-99	: B : B,BM,BTM	: Punch C at 0.4 l in 200 l.
15-May-99	: T : B,BM,BTM	: tm)Ally at 30 g in 200 l.
	: T : B,BM,BTM	: tm)Duplosan at 1.0 l in 200 l.
01-Jun-99	: T : B,BM,BTM	: Punch C at 0.5 l in 200 l.
23-Jun-99	: T : M,MB,MTB	: tm)Gesaprim at 3.0 l in 200 l.
	: T : M,MB,MTB	: tm)Cropoil at 5.0 l in 200 l.
25-Aug-99	: T : B,BM,BTM	: Combine harvested.
20-Sep-99	: T : M,MB,MTB	: Hand harvested.