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ROTHAMSTED RESEARCH

Yields of the Field Experiments 1999

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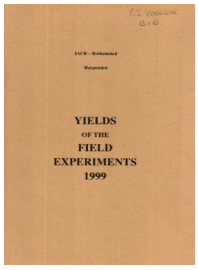

99/R/CS/477 Continuous Maize - Forage Maize, Barley

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

	FUNG99	F99	-99
FUNG97	**FUNG98**		
(F97)	(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**
			FUNG98
0.359	0.359	0.359	0.508

FUNG97	**FUNG98**	**FUNG97**
FUNG99	**FUNG99**	**FUNG98**
		FUNG99
0.508	0.508	0.718

***** 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

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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. Mesurol, 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.

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