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Yields of the Field Experiments 2000

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00/R/CS/478 Continuous Maize - Forage Maize, S. Barley

Rothamsted Research

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00/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 fourth year, forage maize and s. barley.

For previous years see 97-99/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
(B)M	Maize, after three years of s. barley with straw removed
BTM	Continuous spring barley, straw removed plus 10 t maize tops incorporated
B	Continuous spring barley, straw removed

Experimental diary:

27-Sep-99 : T : MTB,BTM : Maize tops at 300 kg per plot.
18-Oct-99 : B : : Sulphate of potash at 217 kg.
: B : : Triple superphosphate at 171 kg.
19-Oct-99 : B : : Ploughed.
07-Mar-00 : B : : Rotary harrowed.
: T : B,BTM : Combination drilled, Optic, tr. Raxil S, at 350 seeds/m² with the Accord drill. Rolled.
: T : M,MB,MTB,(B)M: Sting ECO at 4.0 l in 200 l.
11-May-00 : B : : 34.5% N at 278 kg.
16-May-00 : T : M,MB,MTB,(B)M : Rotary harrowed. Drilled, Hudson, tr. Mesurol, at 10.2 seeds/m² with the Nodet Gougis drill.
17-May-00 : T : M,MB,MTB,(B)M : Rolled.
24-May-00 : T : B,BTM : tm)Opus at 0.3 l in 100 l.
: T : B,BTM : tm)Unix at 0.5 kg in 100 l.
03-Jun-00 : T : B,BTM : tm)Ally at 30 g in 200 l.
: T : B,BTM : tm)Duplosan at 1.0 l in 200 l.
20-Jun-00 : T : B,BTM : Opus at 0.3 l in 200 l.
26-Jun-00 : T : M,MB,MTB,(B)M : tm)Gesaprim at 3.0 l in 220 l.
: T : M,MB,MTB,(B)M : tm)Toil at 1.5 l in 220 l.
17-Jul-00 : B : : Hand rogued wild oats.
24-Aug-00 : T : B,BTM : Combine harvested.
02-Oct-00 : T : M,MB,MTB,(B)M : Hand harvested

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MAIZE

GRAIN TONNES/HECTARE

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

CROP	
M	10.91
MB	12.00
MTB	11.69
(B)M	12.77
Mean	11.84

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

CROP	
	0.670

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	6	0.821	6.9
GRAIN MEAN DM%	27.6		
PLOT AREA HARVESTED	0.00108		

SPRING BARLEY

GRAIN TONNES/HECTARE

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

CROP	
BTM	4.53
B	4.49
Mean	4.51

GRAIN MEAN DM%	87.5
PLOT AREA HARVESTED	0.00600