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99/W/CS/478 Continuous Maize - Forage Maize, S. Barley

Rothamsted Research

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99/R/CS/477

MAIZE

WHOLE CROP TONNES/HECTARE

**** Tables of means ****

CROP	
M	14.03
MB	14.10
MTB	13.60
Mean	13.91

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

CROP
0.519

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	4	0.636	4.6
GRAIN MEAN DM%	27.7		
PLOT AREA HARVESTED	0.00108		

SPRING BARLEY

GRAIN TONNES/HECTARE

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

CROP	
BM	5.91
BTM	5.77
B	5.72
Mean	5.80

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

CROP
0.159

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	4	0.195	3.4
GRAIN MEAN DM%	86.0		
PLOT AREA HARVESTED	0.00575		

99/W/CS/478

CONTINUOUS MAIZE

Object: To monitor the fate of organic carbon in the soil organic matter - Woburn, Stackyard A I.

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

The third year, forage maize and s. barley.

For previous years see 97-98/W/CS/478.

Design: 3 randomised blocks of 6 plots.

Plot dimensions: 9.0 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:

17-Sep-98 : T : MTB,BTM : Chopped maize tops at 10 t.
19-Sep-98 : B : : PK as (0:24:24) at 334 kg. Muriate of potash at 47 kg.
29-Sep-98 : B : : Ploughed.
19-Mar-99 : B : : Sting ECO at 4.0 l in 200 l.
12-Apr-99 : T : B,BM,BTM : Combination drilled, Cooper, tr. Raxil S, at 370 seeds/m² with the Accord drill.
04-May-99 : B : : 27% N at 356 kg.
06-May-99 : T : M,MB,MTB : Rotary harrowed. Drilled, Hudson, tr. Mesurol, at 11 seeds/m² with the Nodet Gougis drill.
07-May-99 : T : B,BM,BTM : Ally at 30 g in 200 l.
10-Jun-99 : T : B,BM,BTM : Astix at 2.0 l with Dorin at 1.0 l in 200 l.
24-Jun-99 : T : M,MB,MTB : Gesaprim at 3.0 l with Cropoil at 5.0 l in 220 l.
23-Aug-99 : T : B,BM,BTM : Combine harvested.
21-Sep-99 : T : M,MB,MTB : Hand harvested.