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Yields of the Field Experiments 2003

Results of the
Classical
and other
Long-term Experiments
2003

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Rothumsted Research

03/W/CS/478 - Woburn Continuous Maize

Rothamsted Research

Rothamsted Research (2004) 03/W/CS/478 - Woburn Continuous Maize; Yields Of The Field Experiments 2003, pp 49 - 50 - DOI: https://doi.org/10.23637/ERADOC-1-260

03/W/CS/478

CONTINUOUS MAIZE

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

The sixth year, forage maize and s. barley.

For previous years see 97-02/W/CS/478.

Design: 3 randomised blocks of 6 plots.

Plot dimensions: 9.0×25.0 .

Treatments:

CROP	Crop and straw treatments:
М	Continuous maize, stubble incorporated
(M)B	S. barley after five years maize, stubble incorporated
MT	Maize, stubble plus 10 t maize tops incorporated
(B)M	Maize after three years of spring barley, straw removed
BT	Continuous spring barley, straw removed plus 10 t maize tops
	incorporated
В	Continuous spring barley, straw removed

Experimental diary:

```
13-Sep-02 : \mathbf{T} : BT, MT: Maize tops applied at 225 kg per plot.
19-Sep-02 : B : CleanCrop Egret at 4.0 1 in 200 1.
                   : Muriate of potash at 180 kg.
20-Sep-02 : B :
                   : Triple superphosphate at 171 kg.
         : B :
30-Oct-02 : B :
                   : Ploughed 25 cm wide furrows.
20-Mar-03 : B :
                   : Power harrowed.
21-Mar-03 : T : (M)B, BT, B: Drilled, Optic, tr. Raxil S plus Aventis
                        Manganese 500, at 425 seeds/m² with the Accord
                        drill.
22-Mar-03 : T : (M)B, BT, B: Rolled.
12-May-03 : T : (B)M, MT, M: Rotary harrowed.
          : T : (B)M, MT, M: Drilled, Hudson, tr. Mesurol, at 10.2
                        seeds/m2 with the Nodet drill.
                    : Sulphur Gold (30% N, 7.6% S) at 320 kg.
14-May-03 : B :
15-May-03 : B : (M)B, BT, B: tm)Ally at 30 g in 220 1.
                           : tm) Starane 2 at 0.75 1 in 220 1.
          : B :
13-Jun-03 : B : (B)M, MT, M: tm)Gesaprim at 3.0 1 in 220 1.
                           : tm) Phase II at 2.0 1 in 220 1.
          : B :
10-Aug-03 : \mathbf{T} : (M)B, BT, B: Combine harvested plots for yield.
12-Aug-03 : T : (M)B, BT, B: Baled.
27-Aug-03: T: (B)M, MT, M: Cut sample areas, weighed, and sampled.
04-Sep-03 : T : (B)M, MT, M: Cut discards.
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NOTE: Forage maize and barley grain samples were taken for N analysis.

03/W/CS/478

MAIZE

GRAIN TONNES/HECTARE

**** Tables of means ****

CROP

M 2.93 MT 3.81 (B)M 3.06

Mean 3.27

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

CROP 1.188

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

Stratum d.f. s.e. cv%

Blocks.Plots 4 1.455 44.5

GRAIN MEAN DM% 32.5

PLOT AREA HARVESTED 0.00108

SPRING BARLEY

GRAIN TONNES/HECTARE

**** Tables of means ****

CROP

(M)B BT 3.97 B 3.29 Mean 4.00

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

CROP

0.150

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

Stratum d.f. s.e. cv%

Blocks.Plots 4 0.184 4.6

GRAIN MEAN DM% 91.6

PLOT AREA HARVESTED 0.00525