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Yields of the Field Experiments 2001

Vields of the Classical and other Long-term Experiments 2001

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01/R/CS/477 - Rothamsted Continuous Maize

Rothamsted Research

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01/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 fifth year, forage maize and s. barley.

For previous years see 97-00/R/CS/477

Design: 3 randomised blocks of 6 plots.

Plot dimensions: 12.0×25.0 .

Treatments: -

CROP Crop and straw treatments: Μ 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 Continuous spring barley, straw removed

Experimental diary:

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11-Oct-00 : T : BTM, MTB: Maize tops at 300 kg per plot.
17\text{-Oct-00} : B : : Sulphate of potash at 217 kg.
          : B :
                    : Triple superphosphate at 171 kg.
20-Oct-00 : B :
                   : Ploughed, /n.
31-Mar-01: T: B, BTM: Combination drilled, Optic, tr. Raxil S, at 350
                        s/m^2 with the Accord drill.
19-May-01 : T : B, BTM: tm)Ally at 20 g in 100 l.
          T : B, BTM: tm) Starane 2 at 0.5 1 in 100 1.
21-May-01: T: M, MB, MTB, (B)M: Rotary harrowed.
          : T : M, MB, MTB, (B)M: Drilled, Hudson, tr. Mesurol at
                        102,000 seeds/ha, with the Nodet Gougis drill.
          : T : M, MB, MTB, (B)M: Sting ECO at 4.0 l in 200 l to maize
                        plots.
31-May-01 : B :
                      : 33.5% N at 300 kg.
11-Jun-01 : T : B, BTM: Opus at 0.4 l in 100 l.
02-Jul-01 : T : B, BTM: Folicur at 0.5 1 in 200 1.
03-Jul-01 : T : M, MB, MTB, (B)M: Mutiny at 2.4 1 in 200 1.
05-Sep-01: T: B, BTM: Cut and baled straw, headlands.
06-Sep-01: T: B, BTM: Combine harvested plots for yield, swathed
                        straw.
07-Sep-01 : T : B, BTM: Combine harvested, all remaining barley, swathed
                        and straw.
29-Oct-01 : T : M, MB, MTB, (B)M: Cut yield areas by hand, weighed and
                        sampled.
31-Oct-01 : T : M, MB, MTB, (B)M: Cut maize discards.
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Note: Forage maize and barley grain samples taken for N analysis.

MAIZE

WHOLE CROP TONNES/HECTARE

**** Tables of means ****

Treatment

M 9.16 8.60 MB MTB9.05 (B)M 9.40 9.05

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

Treatment

1.093

Mean

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

d.f. Stratum cv8 s.e.

6 1.338 14.8 Blocks.Plots

GRAIN MEAN DM% 26.1

PLOT AREA HARVESTED 0.00108

S. BARLEY

GRAIN TONNES/HECTARE

**** Tables of means ****

Treatment

2.98 BTM 2.66 В

Mean 2.82

GRAIN MEAN DM% 79.5

PLOT AREA HARVESTED 0.00600