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# Yields of the Field Experiments 2002

Yields of the
Classical
and other
Long-term Experiments
2002

Full Table of Content

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# 02/W/CS/478 - Woburn Continuous Maize

# **Rothamsted Research**

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# 02/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 sixth year, forage maize and s. barley.
For previous years see 97-01/W/CS/478.
Design: 3 randomised blocks of 6 plots.
Plot dimensions: 9.0 x 25.0.
Treatments:
                  Crop and straw treatments:
CROP
                  Continuous maize, stubble incorporated
                  S. barley after five years maize, stubble incorporated
(M)B
                  Maize, stubble plus 10 t maize tops incorporated
MТ
                  Maize after three years of spring barley, straw removed
(B) M
                  Continuous spring barley, straw removed plus 10 t maize tops
BT
                      incorporated
                  Continuous spring barley, straw removed
Experimental diary:
   31-Oct-01 : \mathbf{T} : BT, MT: Maize tops applied at 225 kg per plot.
                       : Sulphate of potash at 217 kg. Triple
   05-Nov-01 : B :
                           superphosphate at 171 kg. Ploughed.
                       : Sting ECO at 4.0 l in 200 l.
   23-Mar-02 : B :
                       : Potassium sulphate at 217 kg. Rotary harrowed.
   09-Apr-02 : B :
   10-Apr-02 : T : (M)B, BT, B: Drilled, Optic, tr. Raxil S, at 400
                           seeds/m2 with the Accord drill.
                       : Rolled.
   11-Apr-02 : B :
   12-Apr-02 : T : (M)B, BT, B: Stomp 400 SC at 2.0 l in 200 l.
                      : 33.5% N at 287 kg.
   08-May-02 : B :
   09-May-02 : T : (B)M, MT, M: Rotary harrowed. Drilled, Hudson, tr.
                            Mesurol, at 10 seeds/m<sup>2</sup> with the Nodet drill.
   13-Jun-02 : B : (M)B, BT, B: tm)Copper 500 at 1.0 l in 200 l.
                       : tm) Landmark at 0.75 l in 200 l.
              : B :
   20-Jun-02 : B : (B)M, MT, M: tm)Gesaprim at 3.0 l in 220 l.
                       : tm)Cropoil at 5.0 l in 220 l.
   29-Aug-02 : T : (M)B, BT, B: Combine harvested plots for yield. Swathed
                            straw.
   30-Aug-02:B:(M)B, BT, B: Combine harvested all remaining barley.
                            Swathed straw.
   31-Aug-02 : B : (M)B, BT, B: Baled and removed straw.
   12-Sep-02 : T : (B)M, MT, M: Cut discards. Cut sample areas, weighed,
                            and sampled.
```

 ${\tt NOTE:}$  Forage maize and barley grain samples were taken for N analysis.

### 02/W/CS/478 MAIZE

# WHOLE CROP (AT 100% DRY MATTER) TONNES/HECTARE

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

Treatment

M 9.08 MT 7.41 (B) M 7.87

Mean 8.12

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

### Treatment

1.465

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

Stratum

d.f.

s.e.

CV%

Blocks.Plots

4

1.794

22.1

GRAIN MEAN DM% 28.0

PLOT AREA HARVESTED 0.00108

## S. BARLEY

### GRAIN TONNES/HECTARE

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

Treatment

(M) B 5.35 BT 4.62 B 4.19

Mean 4.72

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

# Treatment

0.068

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

Stratum

d.f.

s.e.

CV%

Blocks.Plots

4

0.084

1.8

GRAIN MEAN DM% 84.0

PLOT AREA HARVESTED 0.00525