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# Yields of the Field Experiments 1998



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# 98/W/CS/478 Continuous Maize - Maize, S. Barley

# **Rothamsted Research**

Rothamsted Research (1999) 98/W/CS/478 Continuous Maize - Maize, S. Barley; Yields Of The Field Experiments 1998, pp 102 - 103 - DOI: https://doi.org/10.23637/ERADOC-1-52

# 98/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 second year, maize and s. barley.

Design: 3 randomised blocks of 6 plots.

Plot dimensions: 9.0 x 25.0.

#### Treatments:

CROP	Crop and straw treatments:
BM BTM B M MB	Spring barley, straw removed then maize after three years Continuous spring barley plus 10 t maize tops incorporated. Continuous spring barley, straw removed Continuous maize, stubble incorporated 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:

```
29-Sep-97: T: CROP MTB, BTM: Chopped maize tops at 10 t.

: B: PK as (0:20:32) at 235 kg and (0:24:24) at 138 kg.

20-Oct-97: B: Ploughed.

24-Mar-98: T: CROP BM, BTM, B: Copper, dressed Raxil S, drilled at 375 seeds per m².

13-May-98: B: 34.5% N at 278 kg.

14-May-98: T: CROP M, MB, MTB: Rotary harrowed, Hudson, dressed Thiram and Methiocare, drilled at 10.9 seeds per m².

20-May-98: T: CROP BM, BTM, B: Asset at 2.0 l with Astix at 1.0 l in 200 l. Opus at 0.2 l in 200 l.

14-Aug-98: T: CROP BM, BTM, B: Combine harvested.

15-Sep-98: T: CROP M, MB, MTB: Hand harvested.
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NOTE: Samples of whole crop maize and barley grain and straw were taken for chemical analysis.

# 98/W/CS/478 MAIZE

# WHOLE CROP YIELD TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

CROP

M 9.49 MB 10.49 MTB 10.95

Mean 10.31

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

CROP

0.470

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

Stratum d.f. s.e. cv%

BLOCK.WP 4 0.576 5.6

CROP MEAN DM% 29.7

PLOT AREA HARVESTED 0.00108

# BARLEY

### GRAIN TONNES/HECTARE

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

CROP

BM 1.51 BTM 2.18 B 1.65

Mean 1.78

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

CROP

0.455

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

Stratum d.f. s.e. cv%

BLOCK.WP 4 0.557 31.4

GRAIN MEAN DM% 86.7 PLOT AREA HARVESTED 0.00575