Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readible, or you suspect there are some problems, please let us know and we will correct that.



Yields of the Field Experiments 1997



Full Table of Content

97/W/CS/478 Continuous Maize - Maize, S. Barley

Rothamsted Research

Rothamsted Research (1998) 97/W/CS/478 Continuous Maize - Maize, S. Barley; Yields Of The Field Experiments 1997, pp 98 - 99 - DOI: https://doi.org/10.23637/ERADOC-1-53

97/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 first 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	Spring barley, straw removed then maize after three years Continuous spring barley plus 10 t maize tops
BTM	incorporated, then s. barley after five years
В	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:

- 28-Jan-97 : B : Scythe LC at 3.0 1 in 200 1.
- 14-Mar-97 : B : Ploughed.
- 17-Mar-97 : B : PK as (0:24:24) at 145 kg, muriate of potash at 91.6 kg and gypsum (17.5% S) at 171 kg.
- 18-Mar-97 : B : Rotary harrowed.
- 18-Mar-97 : \mathbf{T} : CROP BM, BTM, B: Cooper, dressed Raxil S, drilled at 375 seeds per \mathbf{m}^2 .
- 08-Apr-97 : T : CROP BM, BTM, B: Scythe LC at 3.0 1 in 300 1.
- 09-Apr-97 : T : CROP BM, BTM, B: Rotary harrowed, Cooper, dressed Raxil S, re-drilled at 420 seeds per m².
- 01-May-97 : T : CROP M, MB, MTB: Rotary harrowed, Hudson, dressed Mesurol, drilled at 11.5 seeds per m².
- 13-May-97 : B : 34.5% N at 278 kg.
- 29-May-97 : T : CROP BM, BTM, B: MSS Optica at 2.0 1 with Vindex at 1.0 1 in 200 1.
- 17-Jun-97 : T : CROP M, MB, MTB: Mutiny at 2.4 1 in 300 1.
- 24-Jun-97 : T : CROP BM, BTM, B: Dorin at 1.0 1 in 300 1.
- 20-Aug-97 : T : CROP BM, BTM, B: Combine harvested.
- 01-Sep-97 : T : CROP BM, BTM, B: Straw removed.
- 16-Sep-97 : T : CROP M, MB, MTB: Hand harvested.
- 29-Sep-97 : T : CROP MTB, BTM: Spread chopped maize at 10 t.

Previous crops: Lupins 1995, w. wheat 1996.

NOTE: Samples of whole crop maize and barley grain were taken for chemical analysis.

97/W/CS/478 MAIZE

WHOLE CROP YIELD TONNES/HECTARE

**** Tables of means ****

CROP

M 9.16 MB 10.04 MTB 11.15

Mean 10.12

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

CROP

0.457

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

Stratum

d.f.

s.e.

CV8

BLOCK.WP

4

0.560

5.5

CROP MEAN DM% 41.8

PLOT AREA HARVESTED 0.00108

BARLEY

GRAIN TONNES/HECTARE

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

CROP

BM 4.32 BTM 4.75 B 4.38

Mean 4.49

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

CROP

0.089

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

Stratum

d.f.

s.e.

CV%

BLOCK.WP

4

0.109

2.4

GRAIN MEAN DM% 89.9

PLOT AREA HARVESTED 0.00550