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Yields of the Field Experiments 2002

Classical and other .ong-term Experime 2002

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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 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:

31-Oct-01 : 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. : Potassium sulphate at 217 kg. Rotary harrowed. 23-Mar-02 : B : 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^2 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. : B : 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.

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 9.08 М MΤ 7.41 7.87 (B) M Mean 8.12 *** Standard errors of differences of means *** Treatment 1.465 ***** Stratum standard errors and coefficients of variation ***** d.f. s.e. CV% Stratum 4 1.794 22.1 Blocks.Plots GRAIN MEAN DM% 28.0 PLOT AREA HARVESTED 0.00108 S. BARLEY GRAIN TONNES/HECTARE ***** Tables of means ***** Treatment (M) B 5.35 4.62 BT В 4.19 4.72 Mean *** Standard errors of differences of means *** Treatment 0.068 ***** Stratum standard errors and coefficients of variation ***** CV% Stratum d.f. s.e. Blocks.Plots 4 0.084 1.8