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*Supplement of*

## **Microbial carbon recycling: an underestimated process controlling soil carbon dynamics – Part 2: A C<sub>3</sub>-C<sub>4</sub> vegetation change field labelling experiment**

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Wheat (n=9)	-27.46 ±0.48	-25.90 ±3.88	-19.91 ±0.92	-23.54 ±0.82	-26.57 ±0.81	-24.02 ±1.33	-21.45 ±3.37
Maize (n=9)	-13.17 ±0.20	-16.04 ±6.11	-4.80 ±0.61	-8.02 ±0.77	-12.30 ±0.66	-13.73 ±4.89	

Table S2. Isotopic values and carbon content of microbial biomass and extractable carbon (exC). Means and standard error (n=5). A  $k_{EC}$  factor of 0.45 was used to calculate the total microbial biomass-C( Joergensen, 1996).

	microbial biomass				extractable C			
	13C [‰]		Cmic [mg kg <sup>-1</sup> ]		13C [‰]		C [mg kg <sup>-1</sup> ]	
continuous wheat plot								
Ap	-11.21	±0.05	110.46	±18.3	-26.21	±0.05	31.63	±0.05
E	-11.27	±0.07	99.68	±4.9	-25.53	±0.04	36.34	±0.41
continuous maize plot								
Ap	-6.27	±0.03	323.95	±23.6	-21.76	±0.12	32.05	±1.23
E	-7.06	±0.19	169.26	±6.5	-17.93	±0.28	43.76	±0.40

## Reference

Joergensen, R. G.: The fumigation-extraction method to estimate soil microbial biomass: Calibration of the  $k_{EC}$  value, Soil Biol. Biochem., 28, 25–31, doi:10.1016/0038-0717(95)00102-6, 1996.