

Supplementary material

Table 1. Measured values of biomass yield (g/m^2) of dry matter and their mean values with standard deviation ($n = 3$). Measured values were recalculated from the harvested area ($0,7 \text{ m}^2$) to the whole 1 m^2 plots.

Name of plot	I. harvest		II. harvest		Sum of harvests
	(g/m^2)	mean \pm sd (g/m^2)	(g/m^2)	mean \pm sd (g/m^2)	mean \pm sd (g/m^2)
1 control	644,00		15,21		
2 control	480,34	$530,17 \pm 98,83$	35,76	$37,06 \pm 22,53$	$567,23 \pm 79,82$
3 control	466,17		60,21		
1 WBC	525,29		43,44		
2 WBC	483,60	$481,09 \pm 45,52$	38,97	$39,50 \pm 3,58$	$520,68 \pm 49,03$
3 WBC	434,36		36,37		
1 SSBC	478,84		9,29		
2 SSBC	408,51	$435,25 \pm 38,08$	64,53	$42,26 \pm 29,14$	$477,51 \pm 9,23$
3 SSBC	418,39		52,97		
total yield (g)		4339,50		356,76	4696,26
% of total		92,40		7,60	100,00

Table 2. Mean biomass C content in each treatment group with standard deviation ($n = 9$). The total C content in yield (g/m^2) is calculated from the average biomass yields (g/m^2) (Tab. 1. in Supplementary material) multiplied by corresponding mean values of biomass C (%).

Name of treatment	I. harvest		II. harvest	
	Biomass C (%)	Total C in yield (g/m^2)	Biomass C (%)	Total C in yield (g/m^2)
Control	$40,71 \pm 0,45$	$215,84 \pm 40,31$	$41,32 \pm 0,26$	$15,31 \pm 9,31$
WBC	$40,03 \pm 0,32$	$192,59 \pm 18,28$	$41,14 \pm 0,19$	$16,29 \pm 1,47$
SSBC	$40,27 \pm 0,09$	$175,28 \pm 15,34$	$41,64 \pm 0,42$	$17,60 \pm 12,14$

Table 3. Values of initial (T_0) C content in cultivated mass of soil, and C content added in soil amendments (WBC, SSBC), shown as mean values (%) with standard deviation ($n = 2$).

	Control (%)	WBC (%)	SSBC (%)
C_{TOT}	$2,14 \pm 0,15$	$1,99 \pm 0,12$	$2,19 \pm 0,43$
$C_{TOT BC}$	-	$0,59 \pm 0,00$	$0,56 \pm 0,05$
Σ	$2,14 \pm 0,15$	$2,58 \pm 0,13$	$2,75 \pm 0,43$
Cox	$1,18 \pm 0,05$	$1,14 \pm 0,05$	$0,88 \pm 0,03$
Cox BC	-	$0,05 \pm 0,00$	$0,14 \pm 0,00$
Σ	$1,18 \pm 0,05$	$1,19 \pm 0,05$	$1,03 \pm 0,03$

Table 4. Values of initial (T0) C content in cultivated mass of soil, and C content added in soil amendments (WBC, SSBC), shown as mean values (g/m²) with standard deviation (n = 2).

	Control (g/m ²)	WBC (g/m ²)	SSBC (g/m ²)
C_{TOT}	5662,02 ± 393,80	5264,22 ± 318,79	5794,62 ± 1143,90
C_{TOT BC}	-	1576,54 ± 4,18	1491,04 ± 140,27
Σ	5662,02 ± 393,80	6840,76 ± 318,82	7285,66 ± 1152,47
Cox	3117,80 ± 139,35	3021,84 ± 121,78	2346,45 ± 69,14
Cox BC	-	126,84 ± 0,49	378,13 ± 2,95
Σ	3117,80 ± 139,35	3148,68 ± 121,78	2724,58 ± 69,20

Table 5. Values of C content in cultivated mass of soil measured after the vegetation season (at T1), shown as mean values with standard deviation (n = 2).

	Grassland			
	C_{TOT}		Cox	
	(g/m ²)	(%)	(g/m ²)	(%)
Control	5803,46 ± 576,26	2,19 ± 0,22	3211,81 ± 939,82	1,21 ± 0,35
WBC	7293,00 ± 317,35	2,75 ± 0,12	3940,05 ± 500,50	1,49 ± 0,19
SSBC	7107,36 ± 511,77	2,68 ± 0,19	3665,73 ± 266,55	1,38 ± 0,10
	Fallow			
	C_{TOT}		Cox	
	(g/m ²)	(%)	(g/m ²)	(%)
Control	5476,38 ± 506,38	2,07 ± 0,19	3874,61 ± 477,27	1,46 ± 0,18
WBC	7315,10 ± 606,94	2,76 ± 0,23	4159,22 ± 338,05	1,57 ± 0,13
SSBC	7381,40 ± 895,68	2,78 ± 0,34	5563,95 ± 386,73	2,10 ± 0,15