

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/m^2) with standard deviation ($n = 2$).

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

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