

# Supplementary

**Table S1.** Significant ( $P < 0.05$ ) differences in SOC were observed between the soil layers within the same land type. The standard errors are marked.

	CCunfert	CCfert	GRunfert	GRfert	UAL	PA
0–15	A	A	A	A	A	A
15–25	A	A	A	B	B	B

Notes. CCunfert—non-fertilised crop cultivation; CCfert—fertilised crop cultivation; GRunfert—non-fertilised cut grassland cultivation; GRfert—fertilised cut grassland cultivation; UAL—uncultivated abandoned land; PA—pine afforestation field. Capital letters indicate differences between soil layers within the same land type.

**Table S2.** Significant ( $P < 0.05$ ) differences of HS between soil layers within the same land type.

	Depth, cm	CCunfert	CCfert	GRunfert	GRfert	UAL	PA
<b>HA1</b>	0–15	A	A	A	A	A	A
	15–25	A	A	A	A	A	B
<b>FAa1</b>	0–15	A	A	A	A	A	A
	15–25	B	B	A	A	A	A
<b>FA1</b>	0–15	A	A	A	A	A	A
	15–25	A	A	A	B	A	B
<b>HA2</b>	0–15	A	A	A	A	A	A
	15–25	B	B	B	A	A	A
<b>FA2</b>	0–15	A	A	A	B	A	A
	15–25	B	B	A	A	A	B
<b>HA3</b>	0–15	A	A	A	A	A	A
	15–25	A	B	B	A	B	A
<b>FA3</b>	0–15	A	A	A	A	A	A
	15–25	B	A	A	A	B	B
<b>Humin</b>	0–15	B	A	B	A	A	A
	15–25	A	A	A	B	A	A

Notes. CCunfert—non-fertilised crop cultivation; CCfert—fertilised crop cultivation; GRunfert—non-fertilised cut grassland cultivation; GRfert—fertilised cut grassland cultivation; UAL—uncultivated abandoned land; PA—pine afforestation field. HA1—labile humic acids; FAa1—labile fulvic acids; FA1—labile fulvic acids; HA2—calcium-bound humic acids; FA2—calcium-bound fulvic acids; HA3—clay mineral-bound humic acids; FA3—clay mineral-bound fulvic acids. Capital letters indicate differences between soil layers within the same land type.