

Table S3. Area-normalized content (kg m^{-2}) and monetary values ($\$ \text{m}^{-2}$) of soil organic carbon (SOC), soil inorganic carbon (SIC), and total soil carbon (TSC = SOC + SIC) by soil order using data developed by Guo et al. (2006) [20] for the upper 2-m of soil and an avoided social cost of carbon (SC- CO_2) of \$46 per metric ton of CO_2 , applicable for 2025 (2007 U.S. dollars with an average discount rate of 3% [19]).

Soil Order	SOC Content (kg m^{-2}) SOC Value ($\$ \text{m}^{-2}$)	SIC Content (kg m^{-2}) SIC Value ($\$ \text{m}^{-2}$)	TSC Content (kg m^{-2}) TSC Value ($\$ \text{m}^{-2}$)
	Minimum—Midpoint—Maximum Values		
Entisols	1.8–8.0–15.8	1.9–4.8–8.4	3.7–12.8–24.2
	0.30–1.35–2.66	0.32–0.82–1.42	0.62–2.17–4.08
Inceptisols	2.8–8.9–17.4	2.5–5.1–8.4	5.3–14.0–25.8
	0.47–1.50–2.93	0.42–0.86–1.42	0.89–2.36–4.35
Histosols	63.9–140.1–243.9	0.6–2.4–5.0	64.5–142.5–248.9
	10.78–23.62–41.14	0.10–0.41–0.84	10.88–24.03–41.98
Alfisols	2.3–7.5–14.1	1.3–4.3–8.1	3.6–11.8–22.2
	0.39–1.27–2.38	0.22–0.72–1.37	0.61–1.99–3.74
Mollisols	5.9–13.5–22.8	4.9–11.5–19.7	10.8–25.0–42.5
	1.00–2.28–3.85	0.83–1.93–3.32	1.82–4.21–7.17
Ultisols	1.9–7.1–13.9	0.0–0.0–0.0	1.9–7.1–13.9
	0.32–1.20–2.34	0.00–0.00–0.00	0.32–1.20–2.34

Note: Entisols, Inceptisols, Alfisols, Mollisols, and Ultisols are mineral soils. Histosols are mostly organic soils.