



Supplement of

Long-term pig manure application increases SOC through aggregate protection and Fe-C associations in a subtropical red soil (Udic Ferralsols)

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Calculation of carbon inputs from pig manure:

Annual C input (Mg C ha⁻¹) = (Manure application rate, kg N ha⁻¹) / (Manure N content, g kg⁻¹) × (Manure C content, g kg⁻¹) × 10⁻³

Example for LM treatment:

$$(150 \text{ kg N ha}^{-1}) / (36.2 \text{ g N kg}^{-1}) \times 386.5 \text{ g C kg}^{-1} \times 10^{-3} = 1.6 \text{ Mg C ha}^{-1}$$