Table 4 - Synthesis of the carbon stocks estimation procedure.

Data source	Regional Forest Inventory of Wallonia (RFIW)						
Pool	Living biomass				Deadwood		
Reference year	2003						
Subpool	Trees and coppices		Stumps	Snags / Root part	Dead standing trees	Snags / Stem part	Coarse woody debris
	Aboveground biomass	Belowground biomass					
Carbon stock Estimation method	Equation1: V x WD x CC	Equation2: V x WD x BF x CC			Equation3: V x WD x (1+BF) x CC	Equation1: V x WD x CC	
	CC: carbon content (= 0.5) WD: Wagenführ and Scheiber's wood basic density (g m^{-3}, Equation 5)						
	V:Vallet's wood volume equation (m³) BF: Vande Walle's 'BEF2' biomass factor					V: Huber's volume (m³)	

Data source	RFIW	RFIW, Aardewerk and Digital Soil Map of Wallonia (DSMW)	
Pool	Litter	Soil	
Reference year	2010	1960	2005
Working by	Humus type	Aardewerk horizon (several per soil profile)	RFIW horizon (1 per soil profile)
Carbon stock estimation method	LCD: litter carbon density (g m^{-2})	Equation 6: HCD = HCC x HT x BD x (1 – HS)	
		HCD: horizon carbon density (g m^{-2}) HCC: horizon carbon concentration (g g^{-1}) HT: horizon thickness (m) HS: horizon stoniness	
		BD: Rawls' bulk density (g m^{-3}, Equation 7)	HT = 0.2 m BD = MSUD: main soil unit bulk density (g m^{-3}, Equation 8)