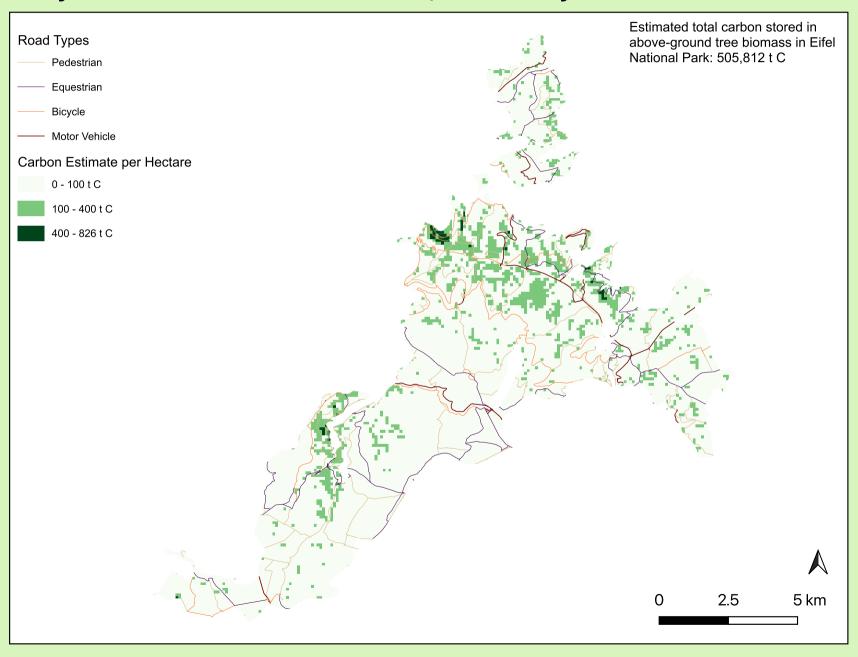
Tree Carbon Stock Estimation (in Relation to Road Type Distance) Study Case: Eifel National Park, Germany



Author: Max Sonntag Date published: 10.04.2025 Projection: EPSG:25832 Source: geoportal.nrw

Estimation method:

1. Combining different species-specificallometric equations to calculate above-ground biomass (AGB) using only diameter at breast height (DBH) and tree height (H): AGB = AGB=0.04 x DBH².42 x H¹.125 2. Approximating diameter at breast height (DBH) by tree height DBH = $\exp(-0.45 + 1.1 \times \ln(H))$ 3. Approximating tree carbon by kg C / tree = 0.5 AGB Sources (see Readme): Cienciala et al. 2005 Pretzsch 2009 Chave et al. 2014 IPCC 2006

