

Supplementary material

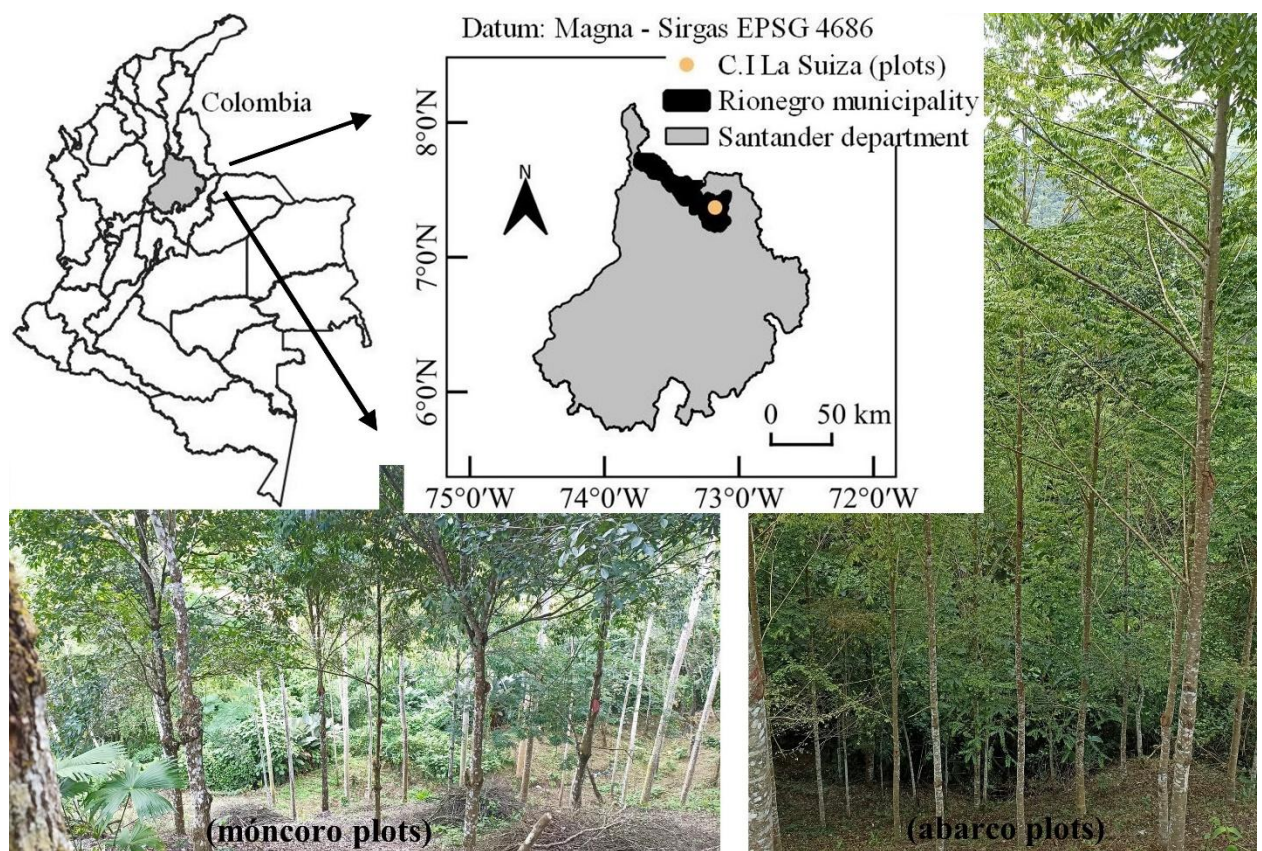


Figure S1. Geographical location of the experimental area and panoramic view of the plots with the reforestation of two native tree species: abarco (*Cariniana pyriformis*) and móncono (*Cordia gerascanthus*), eight years after planting.

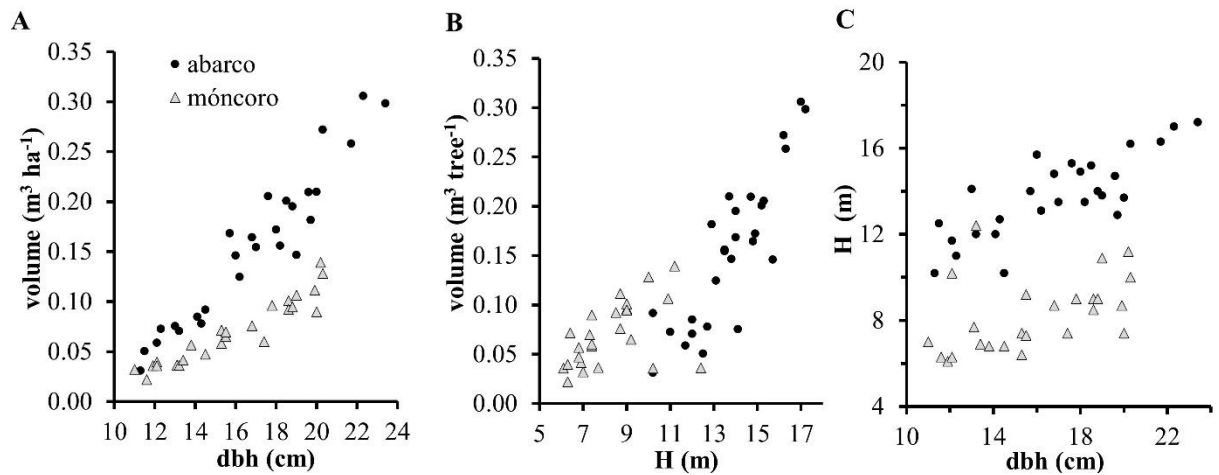


Figure S2. Tree volume observed plotted versus A) diameter at breast height – 1.3 m (dbh) and B) height total (H), and dbh versus H for abarco (*Cariniana pyriformis*) and móncoro (*Cordia gerascanthus*), eight years after planting.

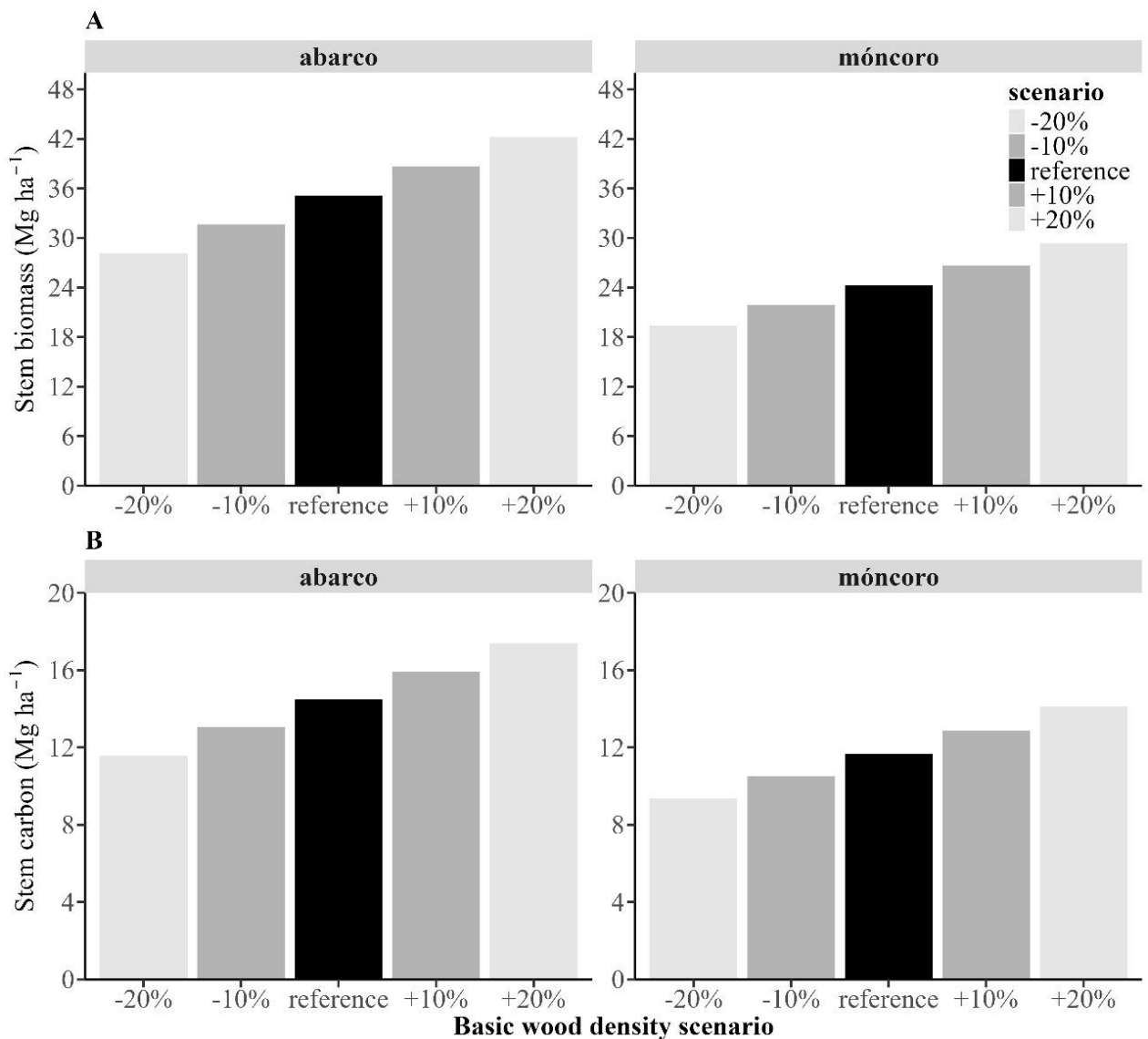


Figure S3. Sensitivity analysis of (A) stem biomass and (B) stem carbon stock for abarco (0.567 g cm^{-3}) and móncoro (0.769 g cm^{-3}), showing estimates under basic wood density variations of $\pm 10\%$ and $\pm 20\%$ of the reference value (three scenarios).

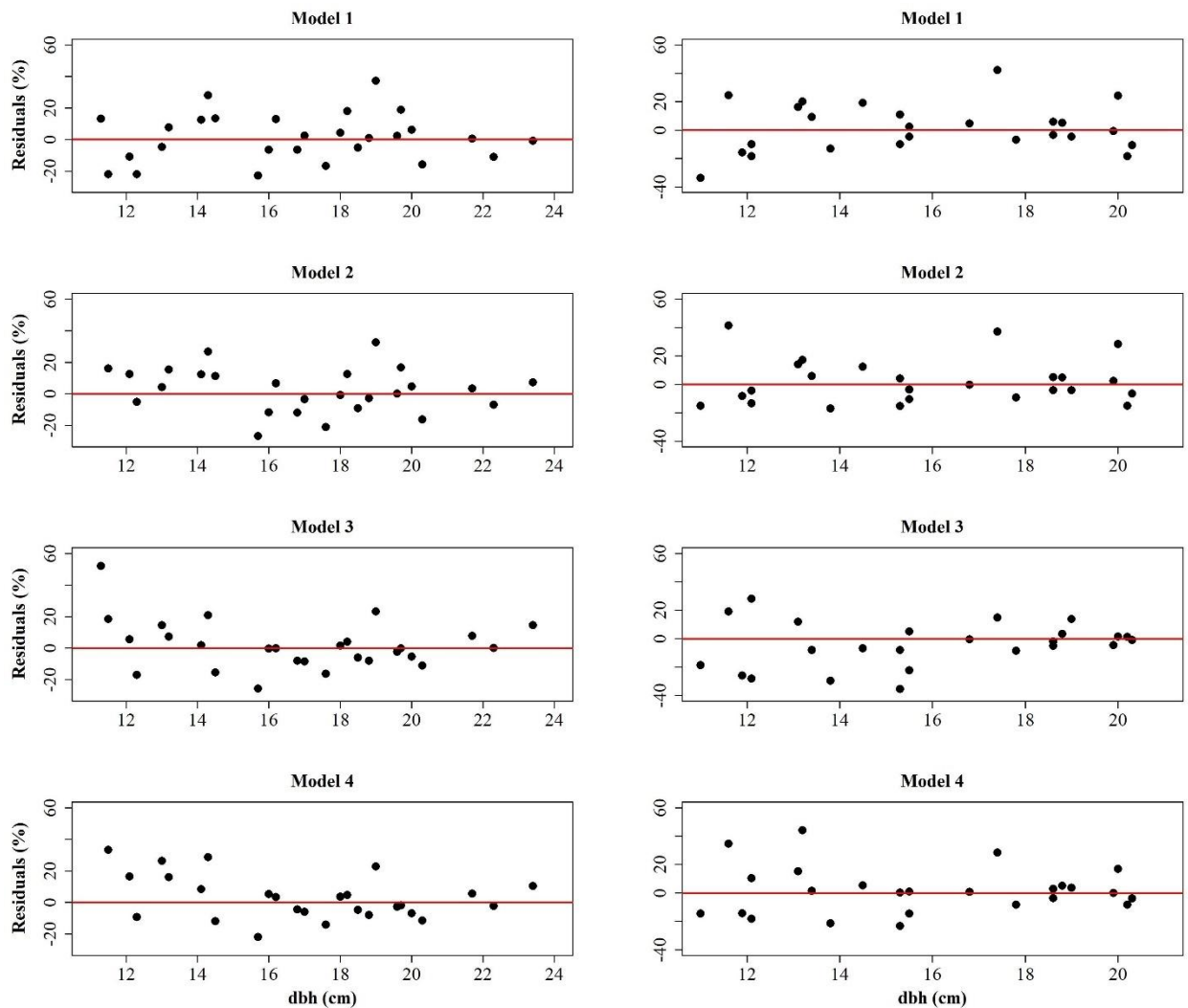


Figure S4. Each model's prediction residuals were calculated by diameter at breast height – 1.3 m (dbh). Left panel for abarco (*Cariniana pyriformis*) and right panel for mónico (*Cordia gerascanthus*). For more details of the models used, see Table 1.

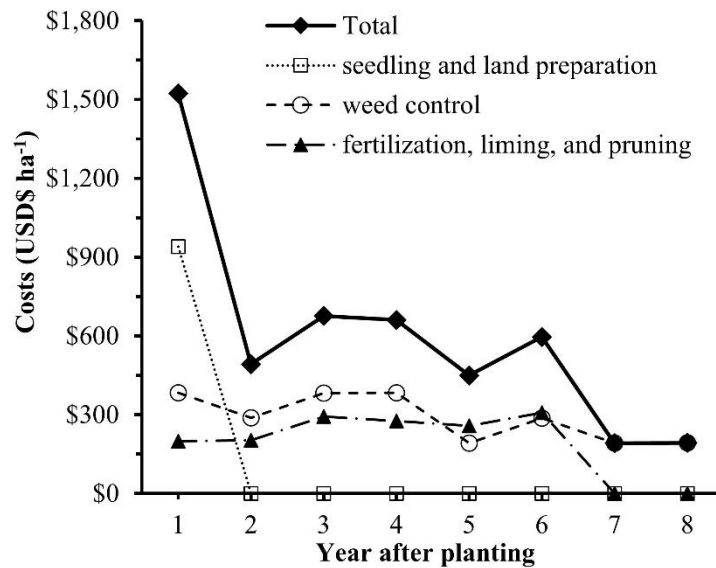


Figure S5. Reforestation costs (agricultural inputs + manual labor) during the first eight years of planting with two native trees: abarco (*Cariniana pyriformis*) and móncoro (*Cordia gerascanthus*). The final cost of abarco only 3.5% higher due to the higher purchase cost of the seedlings compared to móncoro, for this reason only one cost scheme is shown (for more details see Table S1).