

Hunter MO*, Pinto AS, dos Santos CO, dos Santos MP, de Macedo IN, de Lima GSA, Neto MBR, Vieira DLM, Ferreira Jr LG (2026) **Zero-Deforestation Land Use Scenarios in the Brazilian Cerrado: Pasture Intensification for Agriculture, Livestock and Regeneration.** *Regional Environmental Change* *maria.hunter@ufg.br Remote Sensing and GIS Lab (LAPIG), Federal University of Goiás (UFG), Goiânia-GO, 74001-970, Brazil

Use	Aboveground Carbon (AGC)	Belowground Carbon (BGC)	Soil Organic Carbon (SOC)
Pasture	annual mean of live (aglivc), and standing dead (stdedc)	annual mean of roots (bglivc)	annual mean of soil organic matter (somsc)
Soy	sum of live biomass (aglivc _{Feb}), and grains (cgrain _{Feb}) prior to harvest	roots prior to harvest (bglivc _{Feb})	annual mean of soil organic matter (somsc)
Regeneration	annual mean of wood, leaves and branches in trees (rlwodc, rleavc, fbrchc) and live and standing dead herbaceous material (aglivc, stdedc)	annual mean of coarse roots (crootc), fine roots (frootc), and herbaceous roots (bglivc)	annual mean of soil organic matter (somsc)
* Further descriptions of codes used within the Century model for carbon accounting are available in the user's manual. February is the final month of soybean growth before harvest.			

ESM 2 Century 4.5 model components and summarizing methods considered for calculation of aboveground, belowground and soil organic carbon stocks.