Soil Research

#### **Supplementary Material**

# Soil carbon stock and biological activity in silvopastoral systems planted with *Eucalyptus grandis* in a tropical climate

Elwira Daphinn Silva Moreira<sup>A</sup>, Alan Figueiredo de Oliveira<sup>A,\*</sup>, Claudinei Alves dos Santos<sup>A</sup>, Lúcio Carlos Gonçalves<sup>A</sup>, Maria Celuta Machado Viana<sup>B</sup>, Ivanildo Evódio Marriel<sup>C</sup>, Miguel Marques Gontijo Neto<sup>C</sup>, Ramon Costa Alvarenga<sup>C</sup>, and Ângela Maria Quintão Lana<sup>A</sup>

<sup>A</sup>Department of Animal Science, Federal University of Minas Gerais, 31270-901 Belo Horizonte, MG, Brazil.

<sup>B</sup>Experimental Field Santa Rita, Minas Gerais Agricultural Research Company, 35701-970 Prudente de Moraes, MG, Brazil.

<sup>c</sup>Brazilian Agricultural Research Company – Maize and Sorghum, 35701-970, Sete Lagoas, MG, Brazil.

\*Correspondence to: Alan Figueiredo de Oliveira Department of Animal Science, Federal University of Minas Gerais, 31270-901 Belo Horizonte, MG, Brazil Email: alanfigueiredodeoliveira@yahoo.com.br

#### SUPPLEMENTARY MATERIAL

### **Statistical details**

## Model and description

$$Y_{igm} = \mu + A_i + L_g + AL_{ig} + \epsilon_{igm}$$

Where:  $Y_{igm} =$  observation of the system age i, of the tree density g and in the repetition m;

 $\mu$  = general average effect;

 $A_i$  = effect of the system age, where i = seven or five years;

 $L_g = effect$  of tree density, with g = 166 or 333 trees ha<sup>-1</sup>;

 $AL_{ig} = effect$  of the interaction between system age and tree density;

 $\epsilon_{igm}$  = random error attributed to the observation of the system age i, of the tree density g and in the repetition m, sendo  $\epsilon_{igm} \sim N(\mu, \delta^2)$ .