



## environment, forestry & fisheries

Department:  
Environment, Forestry and Fisheries  
REPUBLIC OF SOUTH AFRICA

### Box C.13. Estimates for HWP contribution: Saw mill example

#### Sheet HWP in the MRV tool

A saw mill produces poles from wood of *Eucalyptus grandis*. The annual volume under bark entering the mill is 337 240 m<sup>3</sup>. No recycled wood is used.

It is not possible to differentiate the origin of the wood by activity (i.e. Forest management, Afforestation or Deforestation). Solid waste per year is 24 400 t d.m. and Liquid waste output per day is 50 m<sup>3</sup> day<sup>-1</sup>.

Applying Tier 1, the Total inflow: Mass C Entering the Mill (t C) is

Species = *Eucalyptus grandis*

Volume Entering the Mill (m<sup>3</sup>) under bark = 337 240 m<sup>3</sup>

Mean wood density (t m<sup>3</sup>) = 0.42 (default)

Carbon fraction (CF) = 0.47 (default)

Bark fraction = 0.13 (default)

Activity = Forest management.

Total inflow: Mass C Entering the Mill (t C) = 337 240 x 0.42 x (1+0.13) x 0.47 = 75 225 t C

mC recycled wood/pulp inflow (t C) = 0, because it is already included in the mass flow balance.

mC<sub>RM</sub> (t C) = 75 225 t C

f<sub>HWPrec</sub> = 0.83;

mC<sub>HWP</sub> from milling processing facility (t C) = 62 437 t C

f<sub>LC96</sub> = 0.97 (default provided)

S<sub>HWPi</sub> Reporting = -222 068 t CO<sub>2</sub>

S<sub>HWPi</sub> Accounting = -267 552 t CO<sub>2</sub>

#### C.3.4. 1Emissions from Fire, S<sub>fire</sub>

Biomass burning entails the emissions of CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O gases. Two types of fires are described in this section: wildfires and controlled burning. The MRV tool includes separate sheets for each of them:

- Controlled burning covers the burning of the remaining residue and litter following the removal of wood to mills and the burning of vegetation in firebreaks. This vegetation is considered to be savanna grassland.
- Wildfires are limited to those affected forest areas within the plantation, i.e. wildfires occurring in grassland areas within the plantation are not estimated nor reporting.