



Department:
Environment, Forestry and Fisheries
REPUBLIC OF SOUTH AFRICA

| Type | Parameter | Value | Units | Data Source |
|--|-----------------------------------|-------|------------------|---|
| | D: Pinus patula | 0.354 | t/m ³ | Du Toit B. et al. (2016) Carbon sequestration in South Africa plantation forests, Progress report number 1. Prepared for PAMSA, February 2016 |
| | D: Pinus elliottii (13 yrs) | 0.42 | t/m ³ | Du Toit B. et al. (2016) Carbon sequestration in South Africa plantation forests, Progress report number 1. Prepared for PAMSA, February 2016 |
| | D: Pinus radiata | 0.382 | t/m ³ | Du Toit B. et al. (2016) Carbon sequestration in South Africa plantation forests, Progress report number 1. Prepared for PAMSA, February 2016 |
| | D: Pinus taeda (12 yrs) | 0.416 | t/m ³ | Du Toit B. et al. (2016) Carbon sequestration in South Africa plantation forests, Progress report number 1. Prepared for PAMSA, February 2016 |
| | D: Pinus pinaster | 0.44 | t/m ³ | Du Toit B. et al. (2016) Carbon sequestration in South Africa plantation forests, Progress report number 1. Prepared for PAMSA, February 2016 |
| | D: Acacia mearnsii | 0.655 | t/m ³ | Du Toit B. et al. (2016) Carbon sequestration in South Africa plantation forests, Progress report number 1. Prepared for PAMSA, February 2016 |
| Bark fraction | | | | |
| Default living biomass in other land uses | Bark fraction: default | 0.13 | fraction | IPCC 2006, V4, Ch12, Table 12.5, default value from notes |
| | Total biomass: Grassland | 6.1 | t C/ d.m. | IPCC 2006, V4, Ch6, Table 6.4, Climate: Warm temperate, dry |
| | Total biomass: Annual Cropland | 5 | t C/ d.m. | IPCC 2006, V4, Ch5, Table 5.9 |
| | Total biomass: Perennial Cropland | 2.1 | t C/ d.m. | IPCC 2006, V4, Ch5, Table 5.9, Climate: Temperate |
| | Total biomass: Other | 0 | | |
| Default DOM carbon stocks | | | | |
| | DOM: Broadleaf deciduous | 28.2 | t C/ha | IPCC 2006, V4, Ch2, Table 2.2, Climate: Warm temperate, dry |
| | DOM: Needleleaf evergreen | 20.3 | t C/ha | IPCC 2006, V4, Ch2, Table 2.2, Climate: Warm temperate, dry |
| Default mass flow fraction for C leaving the mill as a proportion of timber entering the mill under different milling processes. Paper/pulp mill | | | | |
| | FmCE: Kraft | 0.49 | fraction | Adu Poku, 2015; Published yield range %: 40-50 |
| | FmCE: Sulphite | 0.42 | fraction | Adu Poku, 2015; Published yield range %: 29 |
| | FmCE: Soda (Bagasse) | 0.62 | fraction | Adu Poku, 2015; Published yield range %: 28-42 |
| | FmCE: Thermomechanical | 0.11 | fraction | Adu Poku, 2015; Published yield range %: 72-95 |
| | FmCE: NSSC | 0.13 | fraction | Adu Poku, 2015; Published yield range %: 63-76 |
| | FmCE: Mechanical & Kraft | 0.36 | fraction | Adu Poku, 2015; Published yield range %: 46 |