

## Our Product- A Versatile, Hardy & Adaptable Crop Wood

Eucalyptus Cloeziana, sometimes called "Gympie Messmate," brought from Australia to Brazil 125 years ago,<sup>i</sup> has flourished in Minas Gerais for 100 years.<sup>ii</sup> It is a hardy, fast-growing,<sup>iii</sup> drought tolerant,<sup>iv</sup> rotation crop tree, somewhat similar to oak, a branch of the Myrtle (Myrtaceae) family. Along with pine, grown farther in the south, it is the primary source for pulp, plywood, lumber, chips and pellets in Brazil.<sup>v</sup> Eucalyptus plantation fosters biodiversity,<sup>vi</sup> and is a well-recognized method to prevent the land degradation that causes climate change.<sup>vii</sup> The lumber is the recognized standard for use as utility poles, farm gates & corral fencing, framing, and finish trim in Brazil, indeed throughout the world. National and international need has grown exponentially.<sup>viii</sup> These plantations also efficiently store carbon, providing for substantial, untapped business opportunity in USD 272 Billion world-wide carbon emissions trading market ("cap and trade").<sup>ix</sup>

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<sup>i</sup> Australian Government, Department of Agriculture, Australian Forest Profiles-Eucalyptus: [https://www.agriculture.gov.au/sites/default/files/abares/forestsaustralia/publishingimages/forest%20profiles%202019/eucalypt/AusForProf\\_2019\\_Eucalypt\\_v.1.0.0.pdf](https://www.agriculture.gov.au/sites/default/files/abares/forestsaustralia/publishingimages/forest%20profiles%202019/eucalypt/AusForProf_2019_Eucalypt_v.1.0.0.pdf), 2019.

<sup>ii</sup> IAEA Bioenergy: Short Rotation Eucalypt Plantations for Energy in Brazil: [https://www.ieabioenergy.com/wp-content/uploads/2018/01/IEA\\_Bioenergy\\_Task43\\_PR2011-02.pdf](https://www.ieabioenergy.com/wp-content/uploads/2018/01/IEA_Bioenergy_Task43_PR2011-02.pdf), IAEA Bioenergy Task 43:2011:02, 2011.

<sup>iii</sup> Ayling, Martins, *The Growing of Eucalyptus on Short Rotation in Brazil*: <https://pubs.cif-ifc.org/doi/pdf/10.5558/tfc57009-1>, *The Forestry Chronical*, February 1981.

<sup>iv</sup> Teullieres, Bossinger, et. al., *Stress Studies in Eucalyptus*: [https://www.academia.edu/25133526/Stress\\_Studies\\_in\\_Eucalyptus](https://www.academia.edu/25133526/Stress_Studies_in_Eucalyptus), *Global Science*, 2007.  
Silva, Nogueira, et. al., *Influences of Edaphoclimatic Conditions of Deep Rooting and Soil Water Availability in Brazilian Eucalyptus Plantations*: <https://doi.org/10.1016/j.foreco.2019.117673>, *Forest Ecology and Management*, Vol. 455, 1 January 2020, 117673.

<sup>v</sup> Blog, Forest2Market, Brasil: Qual será o tamanho da área de florestas plantadas no Brasil em 2030? (What will be the total area of forest planted in Brazil in 2030?) Dec. 11, 2019: also, <https://www.forest2market.com/blog/br/qual-sera-o-tamanho-da-area-de-florestas-plantadas-no-brasil-em-2030>, especially the charts & tables therein.

<sup>vi</sup> Industrial Brasileira de Arvores, IBA: "Planted Trees and Biodiversity" <https://iba.org/eng/datafiles/publicacoes/infograficos/infographic-biodiversity.pdf>

<sup>vii</sup> Sale, Silva, et. al. *Desenvolvimento Inicial do Eucalipto em Monocultivo e Sistema de Integração Lavoura-Pecuária-Floresta; IV Simpósios de Estudos e Pesquisa em Ciências Ambientais na Amazônia, Belem PA 18a 20/11 2015 ISSN 2316-7637*.

<sup>viii</sup> Forest2Market, *Brazil Forest Market: Is demand for Eucalyptus in Parana Here to Stay?*: <https://www.forest2market.com/blog/brazil-forest-industry-is-demand-for-eucalyptus-in-parana-here-to-stay>; February 19, 2018; Visser, Hofnagel & Junginger, *The Potential Contribution of Biomass to Renewable Energy Targets in the EU-the Trade-Off Between Ambitious Greenhouse Gas Emission Reduction Targets and Cost Thresholds*: <http://dx.doi.org/10.3390/en13071761>; *Energies* 2020, 13, 1761, April 7, 2020; International Energy Agency (IEA), *Net Zero by 2050*: [https://iea.blob.core.windows.net/assets/20959e2e-7ab8-4f2a-b1c6-4e63387f03a1/NetZeroBy2050-ARoadmapfortheGlobalEnergySector\\_CORR.pdf](https://iea.blob.core.windows.net/assets/20959e2e-7ab8-4f2a-b1c6-4e63387f03a1/NetZeroBy2050-ARoadmapfortheGlobalEnergySector_CORR.pdf)  
*Industria Brasileira de Arvores: The Brazilian Tree Industry (IBA)*: <https://iba.org/eng/>, and its 2020 Report: <https://iba.org/eng/datafiles/publicacoes/relatorios/relatorio-iba-2020.pdf>

<sup>ix</sup> Watson F., *Global Carbon Market Grows 20% to \$272 Billion in 2020 (Reporting on a Refinitiv [Refinitiv.com] Market Report)*, found at: S.P. Global-Platt, *Energy/Energy Transitions*, Jan. 27, 2021; see also:

Emergen Research: *Carbon Footprint Management Market ...to 2028*: <https://www.emergenresearch.com/industry-report/carbon-footprint-management-market>; Report ID ER\_00596, March 2021.

The European Commission: *EU Emissions Trading System (EU ETS)*: [https://ec.europa.eu/clima/policies/ets\\_en](https://ec.europa.eu/clima/policies/ets_en)

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