

ABSTRACT

Kyla Tahira Firdaus, 2024. Analysis of Stored Carbon Reserves in Trees in the Green Open Space of Ganesha Park, Bandung City, and Surrounding Areas. Supervised by Dr. Hj. Mia Nurkanti, M.Kes. and Dr. Ida Yayu Nurul Hizqiyah, S.Pd., M.Si.

*The "Analysis of Stored Carbon Reserves in Trees in the Green Open Space of Ganesha Park, Bandung City, and Surrounding Areas" was conducted on May 29, 2024. This study aims to identify the types of trees found in the Green Open Space of Ganesha Park, Bandung City, and its surroundings, to determine the annual carbon reserves in the Green Open Space of Ganesha Park and its surroundings, and to identify the types of trees that store the most carbon reserves. The research method used in this study is descriptive quantitative by conducting direct field observations to analyze and collect information regarding carbon reserves in trees in the Green Open Space of Ganesha Park, Bandung City, and its surroundings. The data were analyzed quantitatively to determine the tree diameter, tree height, tree species, and carbon storage. The results of the study in Ganesha Park, Bandung City, showed 65 trees with 25 tree species. The total stored carbon reserves in the Green Open Space of Ganesha Park, Bandung City, and its surroundings amounted to 46.210.67 kg with a total biomass of 93.074.13 kg. The tree with the highest biomass is Cemara Laut (*Casuarina equisetifolia*), while the trees with the lowest biomass and carbon reserves are Glodogan Tiang (*Polyalthia longifolia*), Kenanga (*Cananga odorata*), and Dadap Merah (*Erythrina crista-galli*), which are also categorized as the lowest.*

Keywords: Carbon Reserves, Green Open Space of Ganesha Park, Bandung City, and Surrounding Areas.