

ABSTRACT

Lalah Puspitasari. 2016. Value APTI (Air Pollution Tolerance Index) on Damar Plant (*Agathis dammara*) and Pucuk Merah (*Syzygium Oleana*) on the street Ir. H. Juanda Bandung. Supervised by Drs. Otang Hidayat, M.Pd., and Mimi Halimah, S.Pd., M.Si.

Research on the value of APTI (Air Pollution Tolerance Index) on a plant damar (*Agathis dammara*) and pucuk merah (*Syzygium Oleana*) on the street Ir. H. Juanda Bandung. This study aims to determine the value of APTI (Air Pollution Tolerance Index) on a plant damar (*Agathis dammara*) and pucuk merah (*Syzygium Oleana*) found on the street Ir. H. Juanda Bandung. The method used is descriptive method, with the observational study design, engineering plant sampling using Purposive Sampling and methods Hand Sorting. Parameters measured using APTI value that is four parameters including physiological leaf ascorbic acid content, the total amount of chlorophyll, pH and water content of the leaf extract of leaves. Based on APTI index, the various plant species can be grouped as tolerant plants (APTI grades 30-100), intermediate tolerant plants (APTI grades 17-29), and highly sensitive plants (APTI grades < 1). APTI highest value on the plant Pucuk Merah (*Syzygium Oleana*) at 16.61 and the resin plant of 8.52. Both of these plants included into plants that are sensitive to air pollution. So that the plant can be used as bio-indicators of the environment, which means to identify and provide early warning of pollution incidents.

Keywords: *Agathis dammara*, *Syzygium Oleana*, APTI (Air Pollution Tolerance Index)