

Annisaa' Meirani. 2016. Value APTI of *Ficus lyrata* Warb. and *Samanea saman* (Jacq) Marr. in Bandung City. Supervised by Dra. Hj. Lilis Suhaerah, M.Kes. supervisor I dan Mimi Halimah, S.Pd.,M.Si suverpisor II.

ABSTRACT

*There is an increasing number of motor vehicles might impact increase the air pollution main in road. To reduce pollutants by motor vehicles, hance the needs plant. Plant, such as herbs, shurbs or tree in ecological benefits improve the emvironment. However, each species of plant have different tolerance to air pollution. This study amis to find the velue of APTI (Air Polution Tolerance Index) on *Ficus lyrata* Warb. and *Samanea saman* (Jacq) Merr. in Bandung City. The study was conducted from April to June 2016. The method used in this reasearch is descriptive experiment method, with the obserasional design. The technique of plant sampling with purvosive sampling method. Analysis of plant samples conducted at the Laboratory of Biology FKIP Pasundan University Bandung and Balitsa by analyzing physiological parameters of leaves, such as ascorbic acid content, pH leaf extract, total chlorophyll content and relative water content. Based on the value of APTI, the various plants species can be are criteria as is tolerant (APTI value > 20), tolerant enough (APTI grades 17-20), intermediate (grades 13-16 APTI) and sensitive (APTI value <12. The results show the value APTI on *Ficus lyrata* Warb. is 21.28 while the value of APTI on *Samanea saman* (Jacq) Marr is 12.30. Based on the criteria of value APTI *Ficus lyrat* warb. including tolerant plants and *Samanea saman* (Jacq) Merr. including sensitive plants.*

Keywords: APTI, *Ficus lyrata* warb. *Samanea saman* (Jacq) Merr.

Abbreviation: APTI (Air Pollution Tolerance Index).