

**BANANA STUNTED DISEASE INTENSITY
INFECTED BY *BANANA BUNCHY TOP VIRUS* (BBTV) IN BANANA COLLECTION
AT PURWODADI BOTANICAL GARDEN**

Dewi Ayu Lestari and Ridesti Rindyastuti

Purwodadi Botanical Garden, Indonesian Institutes of Science

Jl. Raya Surabaya-Malang KM. 65 Purwodadi

Pasuruan-East Java 67163

Telp/Fax. (0341) 426046

Email : chunyang_dee@yahoo.co.id¹, ridesti.rindyastuti@yahoo.com²

ABSTRACT

Purwodadi Botanical Garden as an institute of ex-situ conservation has duty to conserve the plant species from endangered including species of banana. Nevertheless, this effort meets some problems, which is disease of Banana Bunchy Top Virus (BBTV). This disease significantly obstructs growth of banana and even causes mortality to a lot of its cultivars. The aim of this research was to determine preferences of BBTV infection in bananas collection by disease intensity observation in order to prevent this disease infection in the future. The visual observation was done to all of banana collections in each banana cultivars infected by BBTV. Bananas collection consist of 140 cultivars, 12,143% were infected by BBTV. Otherwise, the susceptible cultivars to BBTV were Ceni, Nona, Sulawesi, Dulang, Glintung and Salik. Ijo cultivars were very sensitive to BBTV. However, Ambon, Ambon Hong, Cebol, Rojo Bali, Ampyang, Rojo Nongko, Rojo Pendek, Sasi, Rojo Molo and other cultivars were tolerant.

Keywords: conservation, Purwodadi, banana, Banana Bunchy Top Virus