

Diversity and Status phytogeography of Vertical Garden on Universitas Brawijaya Campus

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ABSTRACT

Universitas Brawijaya is one of the green campus that maintains plant by making vertical garden. The purpose of this study is to know and describe, determine the status of phytogeography, along with the key determination of vertical garden compiler plants in UB campus. This research was conducted from October to December 2017 at three vertical garden points, Faculty of Agriculture, Faculty of Engineering, and Faculty of Social and Political Sciences, Universitas Brawijaya. The method used in this research is the determination of characterization with the key of identification and determination of phytogeography in Laboratory of Taxonomy and Plants Development Structure, Biology Department, Faculty of Mathematics and Natural Sciences, Universitas Brawijaya Malang. Obtained 14 species of vertical garden plant species with identification and use of parallel keys due to the lack of availability of identification keys for the vertical garden constituent plant in Universitas Brawijaya campus. Plant species encountered are *Coleus hybridus*, *Platycerium bifurcatum*, *Peperomia nitida*, *Begonia coccinea*, *Costus stenophyllus*, *Begonia popenoci*, *Arachis pintoi*, *Chlorophytum comosum*, *Rhoeo discolor*, *Paspalum dilatatum*, *Nephrolepis exaltata*, *Imperata cylindrica*, *Glechoma hederacea* and *Epipremnum aureum*. Among the 14 types of plants found, according to the physiological status, there are 3 species of endemic plants, namely *Nephrolepis exaltata*, *Etlingera elatior*, and *Epipremnum aureum* while the rest are exotic plants which, on average, survive at 18-30°C with 37-50% moisture.

Keywords: identification key, phytogeography, vertical garden.