

ABSTRACT

*A research aims to get the balance compost banana stems and NPK right in increased growth of teak nursery (*Tectona grandis*). The research was conducted at Green House and Laboratory studies of Agriculture Faculty, University Muhammadiyah Yogyakarta, December 2015 up to March 2016.*

This research was conducted with experiemental method of single factor in stacking the Completely Randomized Design (CRD), which consists of 5 treatments, i.e. Compost banana stems 30 ton/ha (P1), Compost banana steams 22,5 ton/ha + NPK 0,39 ton/ha (P2), Compost banana steams 20 ton/ha + NPK 0,78 ton/ha (P3), Compost banana steams 10 ton/ha + NPK 1,17 ton/ha (P4), and NPK 1,56 ton/ha. Every treatment was repeated 3 timesso obtained 15 units of treatment and every sample consists of 3 replicates and 2 spare plant so that its total 75 teak seeds.

The results of this study showed that treatment Compost of banana steam 20 ton/ha + NPK 0,78 ton/ha the best result for the growth of teak nursery.

Keywords: compost banana steam, NPK, and teak nursery