

**PENGARUH PUPUK ORGANIK CAIR URIN KAMBING TERHADAP
PERTUMBUHAN DAN KUALITAS BIBIT NYAMPLUNG (*Calophyllum
inophyllum* L.) PROVENAN GUNUNGGKIDUL**

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INTISARI

Tanaman nyamplung merupakan salah satu pohon yang bijinya dapat dimanfaatkan sebagai sumber energi nabati. Provenan Gunungkidul diketahui menghasilkan rendeman minyak tertinggi se-Pulau Jawa. Perbanyakannya dimulai dari pembibitan di persemaian. Salah satu indikator keberhasilan penanaman nyamplung di lapangan adalah pertumbuhan dan kualitas bibit. Pupuk organik cair urin kambing dapat menjadi salah satu alternatif pupuk organik bagi pembibitan tanaman nyamplung. Tujuan penelitian ini adalah mengetahui pengaruh pupuk organik cair urin kambing terhadap pertumbuhan dan kualitas nyamplung provenan Gunungkidul. Penelitian ini dilakukan dengan Rancangan Acak Kelompok (RAK) 3 blok dengan 13 ulangan untuk setiap perlakuan di masing-masing blok. Bibit yang digunakan berumur 4 bulan. Tanaman nyamplung diberi perlakuan pupuk organik cair urin kambing 0 ml/L, 10 ml/L dan 100 ml/L setiap 2 minggu sekali sebanyak 10 ml dengan cara disiram ke media tanam. Parameter yang diamati adalah pertambahan tinggi yang dilakukan setiap dua minggu sekali dan pertambahan diameter serta kekokohan bibit diamati setiap sebulan sekali. Pada bulan keenam, tanaman dipisahkan tajuk dan akarnya untuk dioven dan dihitung berat keringnya. Nisbah pucuk akar dan indeks kualitas bibit juga dihitung pada bulan keenam. Hasil penelitian menunjukkan bahwa pupuk organik cair dapat meningkatkan pertumbuhan dan kualitas nyamplung provenan Gunungkidul.

Kata Kunci : Nyamplung Provenan Gunungkidul, Pupuk Organik Cair Urin Kambing, Kualitas Bibit, Pertumbuhan Bibit

**THE EFFECT OF GOAT URINE LIQUID ORGANIC FERTILIZER ON
THE GROWTH AND QUALITY OF NYAMPLUNG SEEDLING
(*Calophyllum inophyllum* L.) PROVENANCE GUNUNGKIDUL**

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ABSTRACT

Nyamplung is one of plant which the seeds can be used as a source of bioenergy. Gunungkidul provenance known to produce the highest oil rendement in Java. Propagation of nyamplung starts from a growth of seedling in the nursery. One indicator of the success of planting nyamplung in the field is the growth and quality of seedlings. Goat urine liquid organic fertilizer can be an alternative organic fertilizer for nyamplung seedling. The purpose of this study is to determine the effect of goat urine liquid organic fertilizer on the growth and quality of nyamplung provenance Gunungkidul. This research was conducted with completely randomized design (RCBD) 3 blocks with 13 replications for each treatment in each block. Seedling that used in this research was 4 months old. Nyamplung plant is treated by goat urine liquid organic fertilizer 0 ml / L, 10 ml / L and 100 ml / L every 2 weeks as many as 10 ml in a way watered planting medium. The height were observed every two weeks and the diameter and sturdiness were observed every month until the seedlings were ready for planting (6 months). When the seedling was 6 months old, the top and roots was separated, entered to the oven and calculated dry weight. Top root ratio and seed quality index also were observed. The results showed that the liquid organic fertilizer can promote the growth and quality of nyamplung provenance Gunungkidul.

Keywords : Nyamplung Provenance Gunungkidul, Goat Urine Liquid Organic Fertilizer, Growth of Seedling, Quality of Seedling