

## **STRUKTUR dan SEBARAN PERMUDAAN ALAM NYAWAI (*Ficus variegata* Blume) di RESOR ROWOBENDO, TAMAN NASIONAL ALAS PURWO, JAWA TIMUR**

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### **INTISARI**

Nyawai (*Ficus variegata* Blume) termasuk dalam genus *ficus* yang merupakan spesies kunci di hutan alam tropis. Nyawai merupakan spesies *fast-growing*. Regenerasi alami Nyawai sangat bergantung pada serangga terasosiasi seperti tawon ara. Belum banyak sumber yang menyebutkan mengenai permudaan alami dari Nyawai. Penelitian ini bertujuan untuk mempelajari struktur dan sebaran permudaannya di alam.

Penelitian dilakukan pada bulan Juli hingga Agustus 2022 di Resor Rowobendo Taman Nasional Alas Purwo (TNAP) menggunakan metode *purposive sampling* dengan intensitas sampling 0.6% dan total 61 plot ukur dibuat mengikuti aliran sungai/air/parit. Analisis data yang dilakukan menggunakan analisis data deskriptif kualitatif. Data menggunakan interpretasi dari SExI-FS (*Spatially Explicit Individual-based Forest Simulator*) untuk melihat struktur vertikal dan horizontal Nyawai dan GIS (*Arcmap*) untuk melihat sebaran permudaan alam Nyawai.

Hasil penelitian menunjukkan struktur vertikal Nyawai pada Resor Rowobendo, TNAP menempati strata C, D dan E. Sementara sebaran permudaan Nyawai termasuk dalam tipe 2 dengan tingkat pertumbuhan semai, sapihan, tiang dan pohon. Tingkat pertumbuhan lengkap terdapat pada intensitas cahaya dari rendah ke sedang. Persebaran permudaan Nyawai juga tidak lepas dari pengaruh aliran air yang membawa benih.

**Kata kunci:** Nyawai, struktur, permudaan alam, TNAP

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**STRUCTURE AND DISTRIBUTION OF NATURAL  
REGENERATION OF NYAWAI (*Ficus variegata* Blume) at  
ROWOBENDO RESOR, ALAS PURWO NATIONAL PARK,  
EAST JAVA**

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**ABSTRACT**

Nyawai (*Ficus variegata* Blume) belongs to the genus *Ficus*, which is a key species in natural tropical forests. Nyawai is a fast-growing species. The natural regeneration of Nyawai heavily depends on associated insects such as fig wasps. There are not many sources that discuss the natural regeneration of Nyawai. This research aims to study the structure and distribution of its natural regeneration.

The research was conducted from July to August 2022 in the Rowobendo Resort of Alas Purwo National Park (TNAP) using a purposive sampling method with a sampling intensity of 0.6% and a total of 61 measurement plots created following the flow of rivers/water/ditches. Data analysis was performed using qualitative descriptive data analysis. The data used interpretations from SEI-FS (Spatially Explicit Individual-based Forest Simulator) to observe the vertical and horizontal structure of Nyawai and GIS (Arcmap) to examine the distribution of Nyawai's natural regeneration.

The results showed that the vertical structure of Nyawai in the Rowobendo Resort, TNAP occupies strata C, D, and E. Meanwhile, the distribution of Nyawai regeneration falls into type 2 with growth stages of seedlings, saplings, poles, and trees. Complete growth stages were found in low to medium light intensity. The distribution of Nyawai regeneration is also influenced by water flow that carries seeds.

**Keywords:** *Nyawai, vegetation structure, natural regeneration, APNP*

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