

## Analisis Struktur Komunitas Gastropoda di Situ Agathis, Universitas Indonesia, Depok, Jawa Barat = Analysis of Gastropod Community Structure in Situ Agathis, University of Indonesia, Depok, West Java

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### Abstrak

Penelitian mengenai struktur komunitas gastropoda di Situ Agathis Universitas Indonesia telah dilakukan untuk menganalisis struktur komunitas gastropoda berdasarkan kepadatan individu tiap jenis, indeks keanekaragaman Shannon Wiener, indeks dominansi, dan indeks pemerataan. Pengambilan sampel gastropoda dilakukan dengan alat Ekman grab dan hand net di stasiun inlet, midlet, dan outlet Situ Agathis. Hasil penelitian menunjukkan bahwa kepadatan jenis gastropoda tertinggi dengan nilai 800 ind/m<sup>2</sup> yaitu spesies *Tarebia granifera* dan kepadatan terendah dengan nilai 11,42 ind/m<sup>2</sup> yaitu spesies *Lymnaea rubiginosa*. Sementara, hasil penghitungan indeks keanekaragaman jenis tergolong rendah dengan nilai berkisar antara 0,3–0,62, nilai indeks pemerataan tergolong rendah dan tidak merata dengan nilai berkisar antara 0,19–0,38, dan nilai indeks dominansi dengan nilai berkisar antara 0,56–0,86 yang menunjukkan adanya spesies yang mendominasi. Berdasarkan hasil pengukuran parameter fisika-kimia, kondisi perairan Situ Agathis buruk dan hanya spesies gastropoda tertentu saja seperti *Pomacea canaliculata*, *Tarebia granifera*, dan *Melanoides tuberculata* yang dapat menoleransi.

.....Research on the structure of the gastropod community at Situ Agathis University of Indonesia has been carried out to analyze the structure of the gastropod community based on individual density each species, Shannon Wiener diversity index, dominance index, and evenness index. Sampling of gastropods was carried out using Ekman grab and hand net at the inlet, midlet, and outlet stations of Situ Agathis. The results showed that the highest density of gastropod species with a value of 800 ind/m<sup>2</sup> was the species *Tarebia granifera* and the lowest density with a value of 11.42 ind/m<sup>2</sup> was the species *Lymnaea rubiginosa*. Meanwhile, the results of the calculation of the species diversity index are classified as low with a values ranged from 0.3–0.62, the evenness index value is low with a values ranging from 0.19–0.38, and the dominance index values ranging from 0.56–0.86 which indicates the presence of a dominant species. Based on the result of measurment physic-chemical parameters, the water conditions of Situ Agathis are poor and only certain gastropod species such as *Pomacea canaliculata*, *Tarebia granifera*, and *Melanoides tuberculata* can tolerate it.