

## Studi komunitas gastropoda di Situ Agathis Kampus Universitas Indonesia, Depok

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### Abstrak

Telah dilakukan penelitian mengenai struktur komunitas Gastropoda di Situ Agathis Kampus UI, Depok. Penelitian tersebut bertujuan untuk mengetahui kepadatan, keanekaragaman, pemerataan, dan dominansi Gastropoda antara bulan November 2009 dan Januari 2010. Pengambilan sampel Gastropoda serta pengukuran parameter fisika dan kimia lingkungan dilakukan di 27 titik di Situ Agathis, yang terbagi atas tiga stasiun, masing-masing memiliki sembilan substasiun. Sampel Gastropoda yang berhasil didapatkan diidentifikasi dan dianalisis menggunakan indeks keanekaragaman Shannon-Wiener, indeks pemerataan, dan indeks dominansi Simpson. Pengambilan sampel di stasiun a (pinggir barat situ) dan c (tengah situ) dilakukan sebanyak satu kali pengulangan menggunakan Petersen grab, sedangkan pengambilan sampel di stasiun b (pinggir timur situ) dilakukan sebanyak dua kali pengulangan menggunakan serokan. Hasil penelitian menunjukkan terdapat delapan jenis Gastropoda yang ditemukan di Situ Agathis, yaitu: *Bellamyia javanica*, *Brotia costula*, *Brotia testudinaria*, *Indoplanorbis exustus*, *Melanoides granifera*, *Melanoides tuberculata*, *Pomacea canaliculata*, dan *Thiara scabra*. Kepadatan Gastropoda tertinggi di Situ Agathis ditempati oleh *Melanoides tuberculata*, sebesar 3541 individu/m<sup>2</sup>. Tingkat keanekaragaman Gastropoda di Situ Agathis tergolong sedang, sebesar 1,669. Tingkat pemerataan Gastropoda di Situ Agathis tergolong hampir merata yaitu sebesar 0,802, dan tidak ada jenis Gastropoda yang mendominasi di Situ Agathis.

A study of community structure of Gastropods have been done at Situ Agathis Kampus UI, Depok. The purpose of this study is to know density, diversity, evenness, and dominance of Gastropods, between November 2009 and January 2010. Gastropods sampling and measurement of environmental physical and chemical parameters carried out at 27 point in Situ Agathis, which is divided into three stations of each with nine substations. Gastropods sample were identified and analyzed using Shannon-Wiener diversity index, evenness index, and Simpson's dominance index. The samples at station a (west edge situ) and station c (middle situ) were grabed using a one-time repetition Petersen grab, while sampling at the station b (eastern edge situ) are taken twice using a brook repetition. The results showed there are eight spesies of gastropods have been found in Situ Agathis, namely : *Bellamyia javanica*, *Brotia costula*, *Brotia testudinaria*, *Indoplanorbis exustus*, *Melanoides granifera*, *Melanoides tuberculata*, *Pomacea canaliculata*, and *Thiara scabra*. *Melanoides tuberculata* is the highest density Gastropod in Situ, amounting to 3541 individuals/m<sup>2</sup>. The level of diversity in Situ Agathis Gastropoda classified as moderate ( $H' = 1,669$ ). The level of evenness in Situ Agathis Gastropoda pertained almost uniformly that is equal to 0,802, and there is no dominancy among Gastropod species found in Situ Agathis.