

Keanekaragaman dan kelimpahan fitoplankton di area bagan perairan Muara Binuangeun, Banten = Diversity and abundance of phytoplankton in the fish farm area of Muara Binuangeun, Banten

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Abstrak

Penelitian keanekaragaman dan kelimpahan fitoplankton di area bagan Perairan Muara Binuangeun, Banten telah dilakukan pada bulan April - Mei 2018. Sampel 3 stasiun diambil secara vertikal menggunakan plankton net berukuran 60 m diperoleh 27 botol sampel. Hasil identifikasi dan pencacahan sampel diperoleh genus fitoplankton yang terdiri dari 12 Genus Diatom, 4 Genus Dinophyceae, dan 1 Genus Cyanophyceae. Kelimpahan fitoplankton tertinggi pada stasiun 3 dengan 692 individu sel/L dan terendah pada stasiun 1 dengan 319 individu sel/L dan tergolong dalam kategori sedang. Genus fitoplankton yang mendominansi di area bagan perairan Muara Binuangeun adalah Thalassiothrix. Genus Dinophyceae yang dominan adalah Ceratium, dan Genus Cyanophyceae yang dominan adalah Trichodesmium. Keanekaragaman fitoplankton di area bagan perairan Muara Binuangeun termasuk dalam kategori sedang. Kekayaan dan kemerataan fitoplankton di kedua wilayah perairan tergolong rendah dan cukup merata.

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Research on the diversity and abundance of phytoplankton in the fish farm area Muara Binuangeun, Banten waters were conducted in April - May 2018. Samples of 3 stations were taken vertically using a 60 m plankton net obtained by 27 bottles of samples. The results of identification and enumeration of samples obtained by phytoplankton genera consisting of 12 genera of Diatoms, 4 genera of Dinophyceae, and 1 genera of Cyanophyceae. The highest phytoplankton abundance was at station 3 with 692 individual cells/L and the lowest at station 1 with 319 individual cells/L and belonging to the medium category. Phytoplankton dominating the area of the Muara Binuangeun watershed is Thalassiothrix. The dominant genus of Dinophyceae is Ceratium, and the dominant genus of Cyanophyceae is Trichodesmium. The diversity of phytoplankton in the Muara Binuangeun fish farm area is included in the medium category. The richness and evenness of phytoplankton in both waters is relatively low and fairly even.