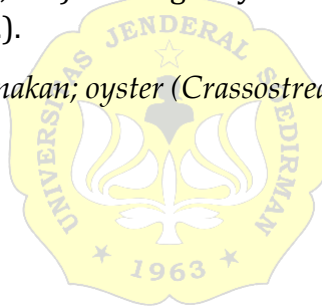


ABSTRAK

Penelitian ini berjudul “Analisis Kandungan Protein *Oyster* (*Crassostrea* sp.) di Kawasan Laguna Segara Anakan Cilacap. Laguna Segara Anakan memiliki peran ekologis penting bagi berbagai biota perairan, salah satunya yaitu *oyster* (*Crassostrea* sp.). *Oyster* (*Crassostrea* sp.) memiliki kandungan protein tinggi yang dapat dijadikan sebagai sumber nutrisi. Kandungan protein pada *oyster* (*Crassostrea* sp.) dapat berbeda-beda dipengaruhi oleh kondisi fisika-kimia air. Tujuan penelitian ini untuk menganalisis kandungan protein, menganalisis parameter fisika-kimia air, dan menganalisis hubungan faktor fisika-kimia air terhadap kandungan protein *oyster* (*Crassostrea* sp.) di Kawasan Laguna Segara Anakan Cilacap. Metode penelitian yang digunakan adalah metode survei. Penentuan kandungan protein dianalisis menggunakan metode *Kjedahl*. Hasil penelitian menunjukkan kandungan *oyster* (*Crassostrea* sp.) berkisar antara $18,57 \pm 1,13$ - $20,02 \pm 1,37\%$. Parameter fisika-kimia air seperti suhu, salinitas, pH, DO (*Dissolved Oxygen*), kecerahan dan kedalaman berada pada batas toleransi. Kandungan protein *oyster* (*Crassostrea* sp.) memiliki hubungan yang sedang dengan parameter kedalaman ($r = 0,455$), sedangkan salinitas ($r = -0,234$) dan pH ($r = -0,227$) hubungannya lemah, serta DO (*Dissolved Oxygen*) ($r = -0,062$); suhu ($r = -0,024$); dan kecerahan ($r = 0,015$) hubungannya sangat lemah dengan kandungan protein *oyster* (*Crassostrea* sp.).

Kata kunci: Laguna Segara Anakan; *oyster* (*Crassostrea* sp.); parameter fisika-kimia air; protein.



ABSTRACT

This study entitled “Analysis Protein Content of Oyster (*Crassostrea* sp.) in Segara Anakan Lagoon Cilacap. Segara Anakan Lagoon has an important ecological role for various aquatic biota, one of which is oyster (*Crassostrea* sp.). Oyster (*Crassostrea* sp.) has a high protein content that can be used as a source of nutrition. The protein content in oyster (*Crassostrea* sp.) can vary influenced by the physical-chemical conditions of water. The purpose of this study was to analyze the protein content, analyze the physical-chemical parameters of water, and analyze the relationship of water physical-chemical factors to the protein content of oysters (*Crassostrea* sp.) in the Segara Anakan Lagoon Cilacap. The research method used is the survey method. Determination of protein content was analyzed using the *Kjedahl* method. The results showed the content of oyster (*Crassostrea* sp.) ranged from 18.57 ± 1.13 - $20.02 \pm 1.37\%$. Physical-chemical parameters of water such as temperature, salinity, pH, DO (Dissolved Oxygen), brightness, and depth are still at the tolerance limit. The protein content in oyster (*Crassostrea* sp.) has a moderate relationship with the depth parameter ($r = 0.455$), while salinity ($r = 0.234$) and pH ($r = 0.227$) the relationship is weak, and DO (Dissolved Oxygen) ($r = 0.062$); temperature ($r = 0.024$); and brightness ($r = 0.015$) very weak relationship with protein content of oyster (*Crassostrea* sp.).

Key words: Oyster (*Crassostrea* sp.); physical-chemical parameters; protein; Segara Anakan Lagoon.

