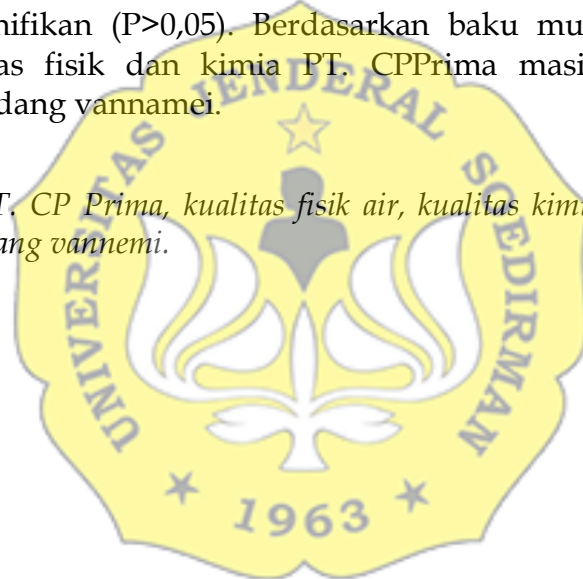


ABSTRAK

Penelitian ini berjudul “Kualitas Fisik dan Kimia Air Tambak PT Central Proteina Prima Subang Jawa Barat Berdasarkan Umur Penebaran Udang”. Kualitas air memegang peranan penting dalam kegiatan budidaya karena dapat mempengaruhi kelangsungan hidup dan sangat berpengaruh terhadap tinggi rendahnya produktivitas udang. Tujuan dari penelitian ini adalah untuk mengetahui perbedaan kualitas fisik dan kimia air serta mengetahui apakah kualitas fisik dan kimia air berdasarkan umur penebaran udang di pertambakan PT. CP Prima masih dalam kisaran baku mutu budidaya perairan. Metode yang digunakan dalam penelitian ini adalah metode *survey* dengan teknik pengambilan sampel dilakukan secara *stratified random sampling*. Lokasi penelitian dibagi menjadi 4 stasiun dengan 3 kali ulangan pengambilan sampel. Analisis statistik uji F pada penetrasi cahaya, kekeruhan, salinitas, BOD, COD menunjukkan hasil yang signifikan ($P < 0,05$) dan analisis statistik uji F pada suhu, pH, DO, kesadahan, alkalinitas, amonia, ortofosfat menunjukkan hasil yang tidak signifikan ($P > 0,05$). Berdasarkan baku mutu perairan budidaya perairan kualitas fisik dan kimia PT. CPPrima masih memenuhi standar pertumbuhan udang vannamei.

Kata kunci : PT. CP Prima, kualitas fisik air, kualitas kimia air, penebaran udang, udang vannamei.



ABSTRACT

This research is entitled "Physical and Chemical Water Quality PT Central Proteina Prima Subang, West Java of Pond Based on the Age of Shrimp Stocking". Water quality plays an important role in aquaculture activities because it can affect the success of life and greatly affect the low productivity of shrimp. The aims of this research are to determine the differences in physical and chemical water quality and to determine the physical and chemical water quality based on the age of shrimp in PT. CP Prima in the range of quality standards. The method used in this study is a survey method with the sampling technique carried out by stratified random sampling. The study sites are collected into 4 stations with 3 times sampling. Statistical analysis of the F test on light rotation, turbidity, salinity, BOD, COD showed significant results ($P < 0.05$) and statistical analysis of the F test on temperature, pH, DO, hardness, alkalinity, ammonia, orthophosphate significant findings ($P < 0.05$). Based on quality standards Development of water quality and chemistry, PT. CPPrima still meets the vannamei shrimp growth standard.

Keywords: *PT. CP Prima, physical water quality, chemical water quality, shrimp stocking, vannamei shrimp.*

