

Phytoplankton Composition in White Shrimp (*Litopenaeus vannamei*) Pond Culture Infected White Feces Disease (WFD)

Title	Phytoplankton Composition in White Shrimp (<i>Litopenaeus vannamei</i>) Pond Culture Infected White Feces Disease (WFD)
Author Order	2 of 3
Accreditation	
Abstract	<p>The aim of this study is to find out the composition and condition of phytoplankton in the white shrimp (<i>L. vannamei</i>) culture infected by the white feces disease so that one of the indicators of the onset of the white feces disease can be known. This research uses descriptive methods. The observed parameters are the identification of species diversity, abundance, diversity index and dominance index of phytoplankton. The sampling was conducted at three locations, Tuban area, Situbondo area, Lamongan area. The results of the study showed observations in Lamongan area, the total abundance of phytoplankton was 473 cells/L. Situbondo areas abundance of phytoplankton total was 633 cells/L and Tuban areas abundance was 887 cells/L. In Lamongan area, the diversity index was 1,009. In Situbondo areas diversity Index was 1,013. In Tuban area, diversity indexes were 1,082. In Lamongan area, a dominance index was 0.477. In Situbondo area, it was obtained a domination index of 0.544. The genus that dominates the three ponds are <i>Cyclotella</i> and <i>Navicula</i>. At all three locations have high variety of species and abundance of the genus members of the filum Cyanophyta and Bacillariofyta are detrimental, the genres that are found are indicators of contaminated waters. The dominance of Cyanophyta (blue-green algae) is also an indicator of the White Feces Disease.</p>
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