# ABSTRAK

Waduk Saguling merupakan waduk yang membendung sungai Citarum. kondisi Waduk Saguling dipengaruhi oleh kegiatan di sekitar waduk dan hal ini mempengaruhi kehidupan fitoplankton. Tujuan penelitian ini adalah untuk mengetahui keragaman, kelimpahan dan distribusi fitoplankton secara horizontal dan vertikal di Waduk Saguling. Metode yang digunakan adalah metode survey.Teknik pengambilan sampel dengan *purposive random sampling* (area inlet sungai citarum, area KJA, area tengah, dan area outlet). Lokasi pengambilan sampel dibedakan menjadi 4 area yang ditentukan berdasarkan kondisi waduk dan 3 kedalaman dengan 4 kali ulangan pengambilan sampel, waktu penelitian yaitu pada bulan juli 2018. Data dianalisis secara deskriptif komparatif, uji beda nyata, aturan 50% dan analisis Indeks Dispersi Morisita. Hasil penelitian menunjukan bahwa Secara horizontal Keragaman genera fitoplankton relatif sama antar area yaitu antara 15- 17 genera, dan kelimpahan fitoplankton sama antar area yaitu antara 657- 1840 ind/L. secara vertikal keragaman genera fitoplankton relatif sama antar kedalaman yaitu antara 15- 18 genera, dan kelimpahan fitoplankton berbeda antar kedalaman yaitu antara 894- 1906 ind/L. Distribusi fitoplankton secara horizontal dan vertikal berkelompok.

**Kata kunci :***Waduk Saguling, Fitoplankton, Kelimpahan, Keragaman, Distribusi*

# ABSTRACT

Saguling Reservoir is a reservoir that dams the Citarum river. the condition of Saguling Reservoir is influenced by activities around the reservoir and this affects the life of phytoplankton. The aim of this study is to investigate phytoplankton diversity, abundance and distribution horizontally and vertically in Saguling Reservoir. The research was conducted in July, 2018. Survey method and purposive random sampling were used in this research. Sampling location divided into 4 location (inlet of Citarum River, outlet of floating net cages, midle and outlet of reservoir)according to the different characteristics of reservoir and 3 depths with 4 repeatitions.The data were analyzed by comparative desrciption, F test, 50% rule and Dispersi Morisita Index. The result showed horizontally genera of phytoplankton were equalrelatively with a range 15 -17 genera and abundance of phytoplankton were not significant differences between area with a range 657 – 1840 ind/L. Vertically, diversity of phytoplankton between depths were equal relatively, with a range 15 – 18 genera. Phytoplankton abundance were significant differences between depths with a range 894 – 1906 ind/L.The phytoplankton distribution horizontally and vertically were grouped.



**Key words**: *abundance, diversity, distribution, phytoplankton, Saguling Rerservoir*