

Hubungan rasio N/P dengan kecenderungan dominasi komunitas mikroalga pada waduk-waduk di DPS Citarum

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Abstrak

Nitrogen and phosphorus compounds in water column of a waterbody are important nutrient for the growth of phytoplankton. Based on literature, it was noted that the N/P ratio in a waterbody can be useful as a diagnostic tool for assessing the types of algae likely to exist under different conditions. It was also said that a low N/P ratio between 2 - 10, community phytoplankton would be dominated by Cyanophyta (blue green algae) group. In applying in cascade reservoirs at Citarum River Basin indicated there is a particular link between N/P ratio and the tendency of phytoplankton population dominating the reservoirs. In Jatiluhur Reservoir, the total N to total P ratio (TNITP) is low around 4 and the phytoplankton communities are dominated by Pyrrophyta group with species *Ceratium hirudinella*. On the contrary, the low TNITP ratio in Saguling and Cirata Reservoirs show that the reservoirs are dominated by Cyanophyta group.