

## The amount of phosphorus and nitrogen compounds from feces of cormorant and biogeochemical cycles in a pond Yamada-Onuma

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Yamada-Onuma, located in western Kanto prefecture, is highly eutrophic because of the input of feces of cormorant (*Phalacrocorax carbo*) containing phosphorus ( $\text{Ca}_3(\text{PO}_4)_2$ ) and nitrogen ( $\text{C}_5\text{H}_4\text{N}_4\text{O}_3$ ). In this study,  $\text{NH}_4^+$ ,  $\text{NO}_3^-$ , uric acid,  $\text{PO}_4^{3-}$  and TP were analyzed to elucidate the input of phosphorus and nitrogen compounds and the metabolism in this pond.