

## Study of the diet of *Crassostrea gasar* in the lagoon Ebrie Ivory Coast

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**ABSTRACT:**

The diet of *Crassostrea gasar* was studied in the sectors II, III and IV of the lagoon Ebrié precisely on the sites of Moossou, Bimbresso and Lokodjro of Ivory Coast. A monthly sampling of oysters was conducted and their prey were determined by microscopic observation of the stomach contents. No empty stomach was observed. The phytoplankton and zooplankton prey were counted through malassez cell and tank dollfuss respectively. The stomach contents consisted mainly of phytoplankton, zooplankton, debris and indeterminate elements. However, phytoplankton, regardless of the site, the time of year, the size of individuals, sex and sexual maturity remained dominant in all the observed stomachs. The results showed 98.91%, 97.23% and of phytoplankton 98.86%, Moossou in Bimbresso and Lokodjro respectively. Males had 97.64 phytoplankton and those of females had, 98.22% in their stomach. The percentage of phytoplankton ranged between 91.13% and 99.2% taking into account the seasons and sites. Phytoplankton dominated the stomachs in an amount of 97.07% for individuals at stage whereas it was 0, 96.2%, 96.37% and 94.19% for the stage 1, 2 and 3 respectively.

**Keywords:**

*Crassostrea gasar*, diet, Lagoon Ebrié