

ABSTRACT

A thorough study was carried out to determine the seasonal variation, population density and diversity of rotifers in two water bodies in Lahore i.e., Jallo Lake during July 2001 – December 2001 and The River Ravi, during January 2002 – June 2002. Water samples were collected monthly to study the physico-chemical characteristics. The plankton samples were also taken monthly using Wisconsin plankton net and the collected samples were stratified by filters of different mesh size and preserved in 4% formalin. A total of 7 species of rotifers belonging to 7 genera were identified from Jallo Lake while 12 species belonging to 8 genera were identified from the River Ravi. In Jallo Lake, rotifer population showed positive correlation with temperature and dissolved oxygen (D.O) while negative correlation with those of pH, total hardness, total alkalinity, chloride, calcium, magnesium and carbon dioxide. In the River Ravi, there was positive correlation between rotifer population and temperature, water flow, D.O., total hardness, chlorides, magnesium and calcium, but negative correlation between rotifers and pH, total dissolved solids, total alkalinity, CO₂ and electrical conductivity.