ABSTRACT

The bio-diversity of fisheries in the reef of Thuwal village has been under study via three comparative stations which are close coral reefs on the coast to Thuwal center about 90 kilometers in the north of Jeddah city.

Types of fisheries available in the three stations have been surveyed by fishing glee nets within a period of 12 months once every three months in each station. The number of fishes and their classes were recorded where the total number of fish species was found to be 52 identified to 26 family during the period of study.

All data has been statistically processed through both bio-diversity indicators; EVENNESS and SHANON and two statistical indicators which are; ANOVA ONE WAY and ANOVA TWO WAY tests.

The research conductor found no correlation of impact between the three stations after processing and statistical testing of the recorded results, no clear relation between time period and the bio-diversity data in the stations during the course of study and between the stations also.

Results of bio-diversity indicators have shown that the specimen taken in December was found to be the highest in terms of bio-diversity data generally in the three stations compared to other time periods. In addition, station 2 is a multi-diversified station during the course of study for its higher diversity and the lower ones in the specimen taken during other months.