

**NEWLY RECORD OF THE *POTAMON MAGNUM* IN THE MIDDLE  
EUPHRATES AND THE IMPACT OF ENVIRONMENTAL FACTORS**

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**ABSTRACT**

In the present study, newly record of the crustacean animal *Potamon magnum*, and the study samples of river crab were collected monthly by a network with a radius of (30) cm for the period from August 2014 until May 2015 of three stations in the al-Kufa river, the first station is located north bridge Imam Ali, the second near the Nissan trocar and the third near the old bridge. also the effect of environmental factors on the presence and the spread of river crab *P. magnum*, which belong to the order Decapods, the highest density has recorded the first station in April (32.89) individual / m<sup>3</sup> and the second station (24.92) individual / m<sup>3</sup> while In the third station (30.8) individual / m<sup>3</sup> also the animal disappeared in the all study stations during the months of January and February. . Environmental measurements showed that there is a positive correlation between intensity *P. magnum* and all of the air and water temperature, Biological Oxygen Demand (BOD<sub>5</sub>), electrical conductivity, salinity and turbidity and Total Hardness (T. H ), also found negative relationship between river crab density and all of pH , dissolved oxygen , calcium ion

**KEYWORDS:** Crustacean, Crabs, Hardness, Tigris