Growth and Mortality Parameters of Common carp, (*Cyprinus carpio* Linnaeus, 1758) in Shadegan wetland

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**Abstract**
Growth and Mortality Parameters of *Cyprinus carpio* were studied in Shadegan wetland. Monthly samples were collected from landing at five stations: Doragh, Rogabe, Khorosy, Salmaneh, Atish. During one year's study from April 2013 to March 2014, 1401 specimens were measured. Mean±s.d length values for this female, male and total fish include were 207±20, 200±33 mm respectively and mean±s.d weight values were 162±98, 116±96 gr respectively. Length-weight relationship with Excel program of for female, male this species were resulted $W=0.00003 L^{2.89}$ ($N=397$, $R^2=0.91$), $W=0.0004 L^{2.60}$ ($N=301$, $R^2=0.95$) respectively. The growth parameters of von Bertalanffy equation for female, male and total fish this species as below were estimated as, The growth parameters of von Bertalanffy equation were estimated as, $L_\infty$: 514, 483 and 514 and $K$: 0.31, 0.49 and 0.36 and $t_0$: -0.5, -0.15, and -0.2 respectively. Mortality coefficients such as total mortality, $Z$: 1.41, 1.51 and 1.44 natural mortality, $M$: 0.61, 0.83 and 0.66 and fishing mortality, $F$: 0.53, 0.67 and 0.83 respectively. Based on results and with comparing to American Fisheries Society (AFS) indices, this species was classified as moderate vulnerable group fishes.

**Keywords:** *Cyprinus carpio*, Growth, Growth, mortality parameters, Length-weight relationship.