

## Study of Growth and Mortality Parameters of *Silurus triostegus* (Heckel, 1843) species in the Shadegan wetland

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### Abstract

In this research, Population dynamics of *Silurus triostegus* were studies in Shadegan wetland. Monthly samples were collected from landing at five stations: Doragh, Rogabe, Khorosy, Salmane , Atish. During one year's study from April 2012 to March 2013, 648 (282female.181male, others immature) specimens were caught and measured. Mean±s.d length values for this female, male and total fish include were 361±105, 366±96, 295±89mm respectively and mean±s.d weight Values were 438±150, 411 ±140, 254±150gr respectively. Growth curvature were calculated for female, male of *this species* respectively was,  $L_t = 798(1 - e^{-0.56(t+0.11)})$  and  $L_t = 666(1 - e^{-0.54(t+0.12)})$ , and M: 0.71, 0.81 per year, F: 0.96, 0.37 per year, Z: 1.75, 1.28 per year, E: 0.37, 0.55. According to exploitation rate (E), *S. triostegus* stocks is overfishing and decreases exploitation rate proposed. Based on results and with comparing to American Fisheries Society (AFS) indices, this species was classified as moderate vulnerable group fishes.

**Keywords:** Growth and mortality parameters, Growth curvature, Shadegan wetland, *Silurus triostegus*.