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**Influence of Visible Implant Fluorescent Elastomer (VIE) Tagging on Growth, Molting and Survival of the Eastern White River Crayfish, *Procambarus acutus acutus* (Girard, 1852)**

Yavuz MAZLUM

Mustafa Kemal University, Faculty of Fisheries, TR 31040 Antakya, Hatay - TURKEY

**Abstract:** Tag retention, growth, molting, and survival of crayfish, *Procambarus acutus acutus*, 35-37 mm in total length were evaluated between tagged and untagged groups. There were no significant differences in molting and survival between the tagged and untagged groups ( $P > 0.05$ ). Tag retention was 100% for crayfish kept individually in plastic containers for the 60-day experimental period. The tagged group had a mean growth of 7.0 mm (molts only) while the untagged group had a mean growth of 4.0 mm (molts only). Molting rates were similar between the tagged and untagged groups. Nine molts were observed each in the tagged ( $n = 30$ ) and untagged ( $n = 30$ ) groups, respectively. Survival rates were 96.6% for both groups. Although the tags did not affect molting or survival, they did significantly affect the growth of crayfish in the short term ( $P < 0.05$ ).

**Key Words:** Crayfish, growth, molting, survival

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[Authors](#)



[zool@tubitak.gov.tr](mailto:zool@tubitak.gov.tr)

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