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## *Exopalaemon styliferus*

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*Exopalaemon styliferus* :

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$$v = \frac{4}{3} \pi r_1 (r_2)^2$$

$r_2$   $r_1$

$\pi$

*Exopalaemon styliferus*

Palaemonidae

(Fischer and Bianchi, 1984)

Salman and Bishop, )

(Zare et al., 2010) (1990

$$\log y = \log(a) + b \log x$$

$b$   $a$

$X$   $Y$

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( ) Leung

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.(Leung, 1994)

.(Leung, 1994)

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( ) palaemonid

).(Kim et al., 2008)

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Bilgin and )

Oh and Hartnoll, )

.(Samsun, 2006

log ) .(2004

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$$( = r^2 = / \log y = / + / x$$

.(Bilgin and Samsun, 2006)

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## "Short Communication"

# Study on the Reproduction Characteristics of *Exopalaemon styliferus* (H. Milne Edwards, 1840) in Downstream Bahmanshir River, Abadan, Iran

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### Abstract

This study was conducted to investigate some aspects of the reproductive system of *Exopalaemon styliferus* (H. Milne Edwards, 1840) population in downstream Bahmanshir River during summer, 2008. A total of 472 specimens collected from sampling site?? stations, males and females comprised 55.4% and 43.6%, respectively (14.4% ovigerous female and 30.1% non-ovigerous females). The minimum size of males with appendix masculina was 2.69 cm body length and 0.4 g body weight and in females with eggs was 4.06 cm-BL and 1.54 g-W. The mean, minimum and maximum fecundity were 914, 242 and 1755, respectively. Reproductive output (RO) of *E. styliferus* varied 8-21% (13% on average) of female wet weight. Mean egg size (shortest × longest axis) at early and late embryonic development stages was (0.67 × 0.86) and (0.72 × 0.97) mm, respectively. The relationship between fecundity with body length (BL) and weight (W) was positive allometric and with carapace length (CL) was isometric.

**Keywords:** *Exopalaemon styliferus*, Bahmanshir River, Reproductive system.