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Reproduction Properties of Pike (*Esox lucius* L., 1758) Population in Lake Karamık  
(Afyonkarahisar/Turkey)

İsmet BALIK, Hıdır ÇUBUK, Remziye ÖZKÖK, Rahmi UYSAL  
Fisheries Research Institute, 32500 Eğirdir, Isparta - TURKEY

**Abstract:** In this study, the spawning period, length at first sexual maturity and fecundity of the pike (*Esox lucius* L., 1758) population in Lake Karamık between March 2002 and February 2003 were investigated. Mean length at first reproduction ( $L_m$ ) was determined as 19.7 cm for female pike. The monthly values of the gonadosomatic index indicated that spawning occurred between February and March. The relative fecundity was determined as  $45.7 \pm 4.9$  eggs  $g^{-1}$  total body weight. Fecundity (F) - fork length (L) and Fecundity - weight (W) relationships were estimated as  $F = 2.8963 L^{2.3722}$  ( $r = 0.590$ ) and  $F = 58.998 W^{0.9354}$  ( $r = 0.668$ ), respectively. Mean egg diameter was  $2.08 \pm 0.07$  mm.

 [Keywords](#)  
[Authors](#)



**Key Words:** Lake Karamık, pike, spawning period, sexual maturity length, fecundity

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

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