

ABSTRAK

Penelitian populasi lobster air tawar (*Cherax quadricarinatus*) di Waduk Panglima Besar Soedirman, Kabupaten Banjarnegara, Jawa Tengah dilakukan berdasarkan data panjang karapas dan berat yang diakumulasikan sejak bulan Januari, Februari, dan Mei 2025. Penelitian ini bertujuan untuk mengetahui nilai kelimpahan, sebaran ukuran, rasio kelamin, hubungan panjang berat, serta faktor kondisi lobster air tawar di Waduk PB. Soedirman. Penelitian ini dilakukan dengan metode *random sampling* dan data yang didapatkan diolah menggunakan bantuan *software Ms. Excel* untuk perhitungan. Hasil penelitian ini mendapatkan 44 lobster jantan dan 42 lobster betina. Nilai kelimpahan relatif tertinggi pada bulan Januari sebesar 68,60% dan terendah pada bulan Mei 12,79%. Hasil sebaran ukuran lobster air tawar memiliki rata-rata panjang berkisar 3,8-4,5 cm. Sebaran ukuran berat lobster air tawar memiliki rata-rata 11,30-31,73 g. Rasio kelamin lobster air tawar didapatkan perbandingan yang seimbang antara jantan dan betina. Nilai panjang dan berat allometrik negatif, dimana $b=2,3586$ ($b<3$), $W=1,1912L^{2,3586}$ untuk individu jantan, $b=1,9869$ ($b<3$), $W=1,8866L^{1,9869}$ untuk betina. Faktor kondisi (K) untuk individu jantan memiliki rata-rata 0,1133 dan betina memiliki rata-rata 0,1136.

Kata Kunci: Kelimpahan, Lobster Air Tawar, Panjang Berat Lobster, Populasi, Waduk PB. Soedirman.



ABSTRACT

A study of the freshwater lobster (*Cherax quadricarinatus*) population in the PB. Soedirman reservoir, Banjarnegara Regency, Central Java was conducted based on carapace length and weight data accumulated since January, February, and May 2025. This study aims to determine the relative abundance, size distribution, sex ratio, length-weight relationship, and the condition factors of freshwater lobsters in the PB. Soedirman reservoir. This study was conducted using a random sampling method and the data obtained were processed using Ms. Excel software for calculations. The results of this study obtained 44 male lobsters and 42 female lobsters. The highest relative abundance value was in January at 68,60% and the lowest in May at 12,79%. The results of the distribution of freshwater lobster sizes had an average length ranging from 3,8-4,5 cm. The distribution of freshwater lobster weight sizes had an average of 11,30-31,73 g. The sex ratio of freshwater lobsters was found to be an balanced comparison between males and females. The allometric length and weight values were negative, where $b=2,3586$ ($b<3$), $W=1,1912L^{2,3586}$ for male individuals, $b=1,9869$ ($b<3$), $W=1,8866L^{1,9869}$ for females. The condition factor (K) for male individuals had an average of 0,1133 and females had an average of 0,1136.

Keywords: *Abundance, Freshwater Lobster, Length Weight Lobster, Population, PB. Soedirman Reservoir.*

