

ABSTRAK

Penelitian ini bertujuan untuk mengetahui jenis-jenis ektoparasit, mengetahui kisaran nilai prevalensi dan intensitas ektoparasit, dan mengetahui proporsi setiap jenis leukosit pada benih Tawes (*Barbonymus gonionotus*), ikan Nila (*Oreochromis niloticus*), dan Karper (*Cyprinus carpio*) yang dibudidayakan di BBIAT Karanganyar, Kabupaten Pekalongan. Penelitian ini dilakukan menggunakan metode observasi dengan mengambil sampel secara acak sebanyak 10 ekor tiap spesiesnya dari BBIAT Karanganyar, Kabupaten Pekalongan. Semua sampel diamati ektoparasitnya, lalu 5 ekor ikan dari masing-masing spesies diambil darahnya untuk pengamatan diferensiasi leukosit. Hasil penelitian menunjukkan jenis ektoparasit yang ditemukan yaitu *Ichthyophthirius multifiliis*, *Zoothamnium intermedium*, *Lerne*a sp., *Oodinium* sp., dan *Trichodina* sp. Prevalensi dan intensitas ektoparasit tertinggi yaitu jenis *Ichthyophthirius multifiliis* berturut-turut sebanyak 20-40% dan 1.125 ind/ekor. Persentase nilai limfosit yaitu $74.3 \pm 5.3\%$ untuk Karper, $74.7 \pm 3.9\%$ untuk ikan Nila, dan $72.5 \pm 6.1\%$ untuk Tawes, persentase nilai monosit yaitu $8,8 \pm 3,7\%$ untuk Karper, $8,5 \pm 2,5\%$ untuk ikan Nila, dan $10,5 \pm 4,4\%$ untuk Tawes, dan persentase nilai polimorfonuklear yaitu $16,8 \pm 3,4\%$ untuk Karper, $16,8 \pm 4,0\%$ untuk ikan Nila, dan sebesar $17 \pm 3,4\%$ untuk Tawes. Persentase Analisis korelasi menunjukkan bahwa nilai limfosit dan polimorfonuklear memiliki korelasi negatif sedangkan nilai monosit memiliki korelasi positif.

Kata Kunci : *Barbonymus gonionotus*, *Cyprinus carpio*, *Oreochromis niloticus*, Pekalongan, Diferensiasi leukosit, Ektoparasit

ABSTRACT

This study aimed to determine the types of ectoparasites, determine the range of prevalence and intensity of ectoparasites, and determine the proportion of each type of leukocyte in Tawes fish (*Barbonymus gonionotus*), Tilapia (*Oreochromis niloticus*), and Carp (*Cyprinus carpio*) fish cultured at BBIAT Karanganyar, Pekalongan Regency. This research was conducted using the observation method by taking 10 random samples of each species from BBIAT Karanganyar, Pekalongan Regency. All samples were observed for ectoparasites, then the blood sample were taken from 5 fish from each species for observation of leukocyte differentiation. The results showed that the types of ectoparasites found were *Ichthyophthirius multifiliis*, *Zoothamnium intermedium*, *Lernea* sp., *Oodinium* sp., and *Trichodina* sp. The highest prevalence and intensity of ectoparasites was *Ichthyophthirius multifiliis*, which were 20-40% and 1,125 ind/head, respectively. The percentage of lymphocyte values was $74,3 \pm 5.3\%$ for carp, $74,7 \pm 3.9\%$ for tilapia, and $72.5 \pm 6.1\%$ for Tawes, the percentage of monocyte value was $8.8 \pm 3.7\%$ for carp, $8.5 \pm 2.5\%$ for tilapia, and $10.5 \pm 4.4\%$ for Tawes, and the percentage of polymorphonuclear values were $16.8 \pm 3.4\%$ for Carp, $16,8 \pm 4.0\%$ for Tilapia, and $17 \pm 3.4\%$ for Tawes. Percentage correlation analysis showed that the lymphocyte and polymorphonuclear values had a negative correlation, while the monocyte values had a positive correlation.

Key Words : *Barbonymus gonionotus*, *Cyprinus carpio*, *Oreochromis niloticus*, Pekalongan Regency, *Diferentiation leukocytes*, *Ectoparasite*