

ABSTRAK

RISDHIANTI DWI CAHYA. Eritrosit, Hemoglobin, dan Hematokrit Itik Tegal di Wilayah Tegal dan Pemalang. Tujuan penelitian ini adalah mengkaji perbedaan jumlah eritrosit, kadar hemoglobin, dan nilai hematokrit Itik Tegal yang dipelihara di wilayah Tegal dan Pemalang. Pengambilan data dilakukan pada tanggal 1-31 Desember 2019 di Kelompok Tani Ternak Kemiri Barat dan Kelompok Tani Ternak Satelit Sejahtera, Kota Tegal serta Kelompok Tani Ternak Klareyan dan Kelompok Tani Ternak Bulu, Kabupaten Pemalang. Sasaran penelitian ini yaitu ternak Itik Tegal betina yang berumur 8-12 bulan yang dipelihara oleh peternak di kelompok ternak wilayah Tegal dan Pemalang dengan kapasitas usaha yang dimiliki minimal 100 ekor itik.

Metode yang digunakan yaitu metode survey dengan menggunakan *Purposive Sampling* dengan analisis data menggunakan uji T. Alat yang dibutuhkan antara lain spuit, tabung EDTA (*Ethylene Diamine Tetra acetic Acid*), dan *cooler box* serta alat-alat analisis darah yang meliputi tabung reaksi, pipet, haemocytometer, mikroskop, tabung kapiler, centrifuge, alat spektrofotometer, larutan hayem, *Ethylene Diamine Terta acetic Acid* (EDTA), kretoseal (lilin penutup), dan larutan drabkins. Jumlah sampel darah itik setiap daerah yaitu 40 sampel. Variabel yang diukur terdiri dari jumlah eritrosit, kadar hemoglobin dan nilai hematokrit darah.

Hasil analisis menunjukkan rata-rata jumlah eritrosit itik Tegal di wilayah Tegal yaitu $3,39 \pm 0,27 \times 10^6/\mu\text{l}$ dan Pemalang yaitu $3,51 \pm 0,33 \times 10^6/\mu\text{l}$. Rataan kadar hemoglobin itik Tegal di wilayah Kota Tegal dan Kabupaten Pemalang masing-masing adalah $11,58 \pm 0,84$ gr/100 ml dan $11,51 \pm 0,82$ gr/100 ml. Rataan nilai hematokrit itik Tegal di Kota Tegal dan Kabupaten Pemalang yaitu masing-masing $32,78 \pm 2,81\%$ dan $33,93 \pm 3,39\%$. Hasil penelitian menunjukkan bahwa jumlah eritrosit, kadar hemoglobin dan nilai hematokrit Itik Tegal di wilayah Tegal berbeda tidak nyata dengan jumlah eritrosit, kadar hemoglobin dan nilai hematokrit Itik Tegal di wilayah Pemalang. Kesimpulan dari penelitian ini bahwa kondisi hematologis itik yang terdiri dari jumlah eritrosit, kadar hemoglobin dan nilai hematokrit itik Tegal di Kota Tegal dan Kabupaten Pemalang relatif sama.

Kata kunci : itik, darah, eritrosit, hemoglobin, hematokrit.

ABSTRACT

RISDHIANTI DWI CAHYA. Erythrocytes, Haemoglobin, and Hematocrit of Tegal Ducks in the Tegal and Pemalang Areas. The purpose of this study was to examine differences total of erythrocytes , haemoglobin levels, and hematocrit values of Tegal Ducks that are maintained in the Tegal and Pemalang areas. Data was collected on December 1-31 December, 2019 in the Livestock Farmers Group Ducks of Kemiri Barat and the Sejahtera Satellite Livestock Farmers Group Ducks of Satelit Sejahtera, Tegal City and the Livestock Farmers Group in Klareyan and Livestock Farmers Group in Bulu, District of Pemalang. The target of this research was female Tegal Ducks, aged 8-12 months, and take by breeders in the Tegal and Pemalang areas with a business capacity of at least 100 ducks.

The method employed was a survey using purposive sampling with data analysis used the T Test. The materials needed were syringes, Ethylene Diamine Tetra acetic Acid (EDTA) tubes, and cooler boxes and also blood analysis tools which include test tubes, pipettes, haemocytometers, microscopes, capillary tubes, centrifuges, spectrophotometers, hayem solutions, Ethylene Diamine Tetra acetic Acid (EDTA), cretoseal (wax cover), and drabkins solution. Total of duck blood samples in each region were 40 samples. The measured variables consisted of total of erythrocytes, hemoglobin levels and blood hematocrit values.

The average total of erythrocyte Tegal ducks in the Tegal City was $3.39 \pm 0.27 \times 10^6/\mu\text{l}$ and Pemalang was $3.51 \pm 0.33 \times 10^6/\mu\text{l}$. The average levels of hemoglobin in Tegal ducks in the area of Tegal City and Pemalang Regency were 11.58 ± 0.84 gr/100 ml and 11.51 ± 0.82 gr/100 ml. The mean hematocrit value of Tegal ducks in Tegal City and Pemalang Regency were $32.78 \pm 2.81\%$ and $33.93 \pm 3.39\%$. The results showed that the total of erythrocytes, haemoglobin levels and hematocrit value of Tegal ducks in the Tegal region were not significantly different from the total of erythrocytes, haemoglobin levels and the hematocrit value in the Pemalang region. The conclusion of this study were that the haematological condition of ducks consisted of erythrocyte counts, hemaglobin levels and hematocrit values of Tegal ducks in Tegal City and Pemalang Regency relatively the same.

Key words: ducks, blood, erythrocytes, hemoglobin, hematocrit