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ASSESSING THE IMPACT OF ENVIRONMENTAL FACTORS ON THE PHYSIOLOGICAL STATE OF THE QUAIL GANJA-QAZAKH ZONES

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Last 10-15 years the little and average farming have been improving in Azerbaijan. The quails breeding is also improved and formed. There is a big potential in our republic for breeding quails. Thys, it was getting great interest to quails breeding. The quails breed very quickly, the products getting from them is very qualitative and 6 sexes were breeding in our country not due to climate of our republic and all these cases caused the improving of quails keepers in our republic. The demand for quails meat and eggs showed that it has great future in our republic [8].

Recently, we decided to learn the breeding technology and for getting high products of them we began to learn their keeping systems. During summer months quails which were kept in our republic was determined that they didn't eat very much, but they drank water very much, and all these cases showed that their indicators are below. There are all real and potential opportunities in Ganja-Qazakh zones. That's why, it must be adopted product producing, treatment of it due to the technological factors of our republic. Organizing of right keeping systems we can get high products of quails. According to the various climate zones the keeping of quails technology is also various. Thus, in hot climate zones of Azerbaijan for keeping quails the farms greatly appreciate for keeping birds on floor system. Also, keeping quails on floor is not economic, but farmers greatly used this method widely. Due to the farmers thoughts, keeping quails on floor system on hot climate zones on hot days the stress cases observed rarely, and on cage system during the temperature getting higher in organism the acting of breathing and temperature center discharged very usually [6].

Although, the inner temperature of quails is 42 °C the quails keeping buildings the temperature must be not higher than the 32-34 °C if the temperature is higher the productivity is getting lower 50-60 % and the clinical-physiology case is also getting worse [1].

The purpose of investigation work. Determining the physiology changes in quails due to the hot climate. Learning of the durability index of quails organism on hot days, fever acting index in organism and learning of the gathering hot in organism of quails.

The investigation work was held in ASAU`s in the faculty of “Veterinary medicine” in Vivarium on at the age of 20-30 week pharaoh quails. During the investigation work for determining the hot durability index in quails organism it was used the formula recommended by Raushenbach in 1985 and the higher temperature time in organism of quails was at 1300-1500 PM and this time the temperature in building 800-1500 was different. The influencing indicator of quails organism is other acting fever index in organism.

The fever acting index in organism of quails was also determined by the methods of A. Borton, O. Edxolm which was recommended in 1957. If the high temperature longly lasted in organism of quails so it gathered the other high temperature and it caused the temperature stress. For blocking the temperature stress in organism of quails we firstly must determined the fever index gathering in quails [3, 4]. Thats why, the gathering of fever temperature index of quails determined by the method recommended by K. A. Dorodnichev.

In buildings feeding, watering, lightning was held due to the zoohygienic norms in all groups. The investigation work was held due to the below scheme.

Table – The scheme of investigation work

N/N	Groups	The characteristics of groups
1	Control	The circumstances in farms: Quails were kept on floor
2	Experiment	The air in building is cooling. Quails were kept on floor
3	Experiment	The air in building is cooling. Quails were kept in cages

According to the first control group it was turned out that the temperature was 29-31 °C, the hot capacity in building was 68-69,5 Kdj/kg, The hot durability index was 30, the temperature acting index in organism was 0,41, the gathering hot index was 7,66. On these circumstances the adaptation of quails by physiology is very slowly. Thus, the adaptation of organs and semen to these conditions is getting very aggressive [5]. It promotes to $M \pm > 4\sigma$. Sometimes during the afternoon it got to $M \pm > 5\sigma$ and this case formed in quails the stress aggressive.

But in Experiment groups due to the keeping of quails the temperature like the zoohygienic norms and the physiology norm was $M \pm > 2\sigma$. But in cage system especially on the 4th and 5 th floor the temperature is high and the tension is $M \pm > 3\sigma$ [7].

During the hot climate zones in individual farms among the older quails the temperature must be not higher than 18-22 °C. For the cooling of building air the air exchange for 1 alive quail must be 3-4 m³. It will be great if we will damp the air coming through the ventilation system. The farmers widely used the air condition system due to the volume of the buildings. While the determining of physiology case of quails it must be firstly determined the durability index, the acting index in organism and the gathering hot index in organism, too.

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