

INVESTIGATIONS CONCERNING ON HAEMATOLOGICAL PROFILE OF PARTRIDGES ``*PERDIX PERDIX*`` IN CAPTIVITY IN WESTERN PART OF ROMANIA

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Summary

Investigațiile s-au efectuat pe 20 potârnicchi dintr-o fermă de creștere în sistem intensiv a speciei ``*Perdix perdix*`` din județul Timiș. În unitatea din care provin probele nu s-a semnalat nici o boală infectocontagioasă, fiind însă confirmat diagnosticul de singamoză. De asemenea în unitatea respectivă au fost efectuate toate acțiunile sanitare veterinare confirmând planului tehnic. S-a efectuat examen clinic și examenele hematologice cantitative și calitative prin metode uzuale. La examenul clinic, potârnicchii au prezentat anorexie, astenie, dispnee și dificultate locomotorie. La examenul macroscopic, s-a constatat mărirea în volum, consistența friabilă a ficatului, rinichilor și cordului.

Key words: partridge, haematological

The Gray Partridge is considered to be one of the bird species most in need of urgent conservation action, and is of particular concern locally due to its massive decline. *Perdix* is a genus of partridges with representatives in most of temperate Europe. The Gray Partridge has been badly affected by agricultural changes and its range has contracted considerably.

Nationally, the intensification of arable farming with the reduction of food sources due to the increased use of pesticides and herbicides is of significant importance in its decline. The intensification of agriculture contributes to the loss of nesting sites through the removal of hedgerows and the destruction of important breeding habitats, such as rough grassland. Reduction in winter food supplies due to autumn sown crops leading to no winter stubble fields is another nationally important factor. On common land, increased human disturbance during the breeding season may well be a factor in its decline, as could any increase in densities of grazing stock. The effects of hunting on an already depleted species will also have a significant effect.

Materials and methods

It was observed some clinical aspects and was determined the haemogramme erythrocytes (millions/ml), thrombocytes (thousands/ml) haematocrit (%), leucogramme in different ages of partridges in health and in syngamiasis sick. *Syngamus trachea* is a parasite of the upper respiratory tract of partridges and may be responsible for respiratory distress and death in partridges. Blood collecting was made by heart puncture. It was examined clinically (habitués, major functions) and

paraclinically (usually methods). Macroscopic examine shows the liver, kidney and heart in pathological conditions:

Results and discussions

Clinically, the partridges in health, the witness portion, have no macroscopic changes and haematological changes. The haematological alteration in syngamosis sick partridges are represented by a decreasing of all the blood parameters and this justifies the severe state of anemia determinates by quantitative and qualitative modifications of blood.

Table 1

Haematological parameters on partridges

Haematological parameters	U/M	Witness portion	Syngamosis Portion
Erythrocytes	Mil/ml	2.7+0.2	1.8+0.2
Haemoglobine	G/dl	10.2+0.5	8+0.3
Haematocrit	%	35+2.0	28+2.0
Leucocytes	Thousand/ml	16+2	10+2
Haeterofile	%	36	32
Limfocites	%	45	49
Eosinophile	%	8.4	7.5
Basophile	%	4.5	3.5
Monocytes	%	6.1	8

Conclusions

Haematological examine shows hipocromic anemia by decreasing of erythrocytes and haemoglobine. Decreasing of leucocytes shows hiporeactivity, asthenia, anorexia.

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