

FAUNISTICAL DATA FROM THE WESTERN PART OF ROMANIA DURING 2019

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Abstract. *This paper present the faunistical researches from the western part of Romania, during 2019. There were presented some faunistical and ecological data, unpublished in literature (phenological anomalies, the size of the clutches, additional yearly clutches, chromatic varieties, rare or accidental species).*

Key words: faunistical data, Romania.

INTRODUCTION

The disappearance of species or the diminution of their population, the emergence of new species either accidental in a territory, insufficient faunal data, observing some ecological aspects not published in the scientific literature are just a few reasons that make it absolutely necessary to publish the faunal data observed in nature. Data about the fauna from the western part of Romania area were published by Ilie (2011, 2015, 2017).

MATERIAL AND METHOD

The insects were collected with the entomological net. For the identification of species were used different sources (Warchalowski, 2003; Pîrvu et al., 1985; Hoehner, 1973; Valenciuc, 2002; Fuhn et al., 1961; Dijkstra, 2006; Svensson, 2017).

RESULTS AND DISCUSSIONS

During 2019, were identified the following species:

The Gastropoda Class

- *Helix lucorum* Linnaeus, 1758-one specimen, Oradea(BH), June 11. Relatively common species in Romania.
- *Helix pomatia* Linnaeus, 1758-one specimen, Tinca(BH), September 16. Common species at national level.

The Insecta Class

The Coleoptera Order

-*Clytra laeviuscula* Ratzeburg, 1837 - one female specimen, Oradea(BH), May 21. Common species in Romania.

-*Galeruca tanacetii* Linnaeus, 1758 - one female specimen, Oradea(BH), September 29; one female, Tinca(BH), October 5, one female specimen feeding on spicules and seeds of *Agropyron cristatum* Linnaeus, 1758, Tinca(BH), October 12. This is an accidental host plant species for this species. Common species in Romania.

The Lepidoptera Order

-*Inachis io* Linnaeus, 1758-one specimen, Leş(BH). July 30; one specimen, the edge of Tinca forest(BH), October 12. Common species at national level, but more rarely in this year.

-*Vanessa atalanta* Linnaeus, 1758-one specimen, Tinca(BH), September 18, 24, 29; one specimen, Tinca(BH), October 2, 5 and 12 (the edge of Tinca forest-BH), 17(Tinca-BH). Very common in Romania, but rare in this year.

-*Oclodes sylvanus* Esper, 1777-one male specimen, Oradea(BH), May, 21. Relatively common species in Romania.

-*Papilio machaon* Linnaeus, 1758 - one specimen, Leş(BH), July 30. Relatively common species in Romania, but rare in this year.

-*Lycaena dispar rutila* Werneburg, 1864 - one female specimen, Leş(BH), July 30. Relatively common species in Romania, but protected at national level.

-*Hyles euphorbiae* Linnaeus, 1758 - one specimen, Tinca(BH), September 24, 30. Common species in Romania.

-*Vanessa cardui* Linnaeus, 1758 - five male specimens, Oradea(BH), June 11; two specimens, Tinca(BH), October 8. Frequent species in 2019, common species in Romania.

-*Pieris brassicae* Linnaeus, 1758 - rare specimens during April-May because the rains, relative many specimens during June-August in all western part of Romania. Common species in Romania.

-*Macroglossum stellatarum* Linnaeus, 1758 - one specimen, Tinca(BH), September 24, 30. Migratory species in Romania, sometimes relatively common species in Tinca area, during August-September.

-*Colias erate* Esper, 1803 – one male specimen, Tinca(BH), October 4 and 7; many specimens, the edge of Tinca forest(BH), October 12. Relatively common species in Romania. It is noted that the flight period is extended by one month (Rakosy, 2013).

-*Cupido alcetas* Hoffmannsegg, 1804 - one female specimen, Tinca (BH), October 4. Almost endangered species in Romania (Rakosy, 2013).

-*Maniola jurtina* Linnaeus, 1758 - one specimen, Tinca (BH), October 5. Common species in Romania.

-*Plebejus argus* Linnaeus, 1758 - one male specimen, Tinca (BH), October 7. Common species in Romania. According to literature (Rakosy, 2013), it is noted that the flight period is extended by one month.

-*Lasiommata megera* Linnaeus, 1758 - two male specimens, Tinca (BH), October 7. Common species in Romania.

-*Issoria lathonia* Hubner, 1819 - two male specimens, Tinca(BH), October 8, 12. Relatively common species in Romania.

-*Colias croceus* Fourcroy, 1785 - one female specimen, Tinca (BH), October 8; many specimens, the edge of Tinca forest (BH), October 12. Common species at national level, but relatively rare in this year.

-*Argynnis paphia* Linnaeus, 1758 - one male specimen, Tinca(BH), October 11. Common species in Romania.

-*Argynnis adippe* Dennis et Schiffermuller, 1775 - two specimens, the edge of Tinca forest (BH), October 12. Common species in Romania. It is noted that the flight period is extended by almost two months (Rakosy, 2013).

-*Lycaena phleas* Linnaeus, 1758 - many specimens, the edge of Tinca forest(BH), October 12. Common species in Romania.

-*Brenthis daphne* Bergstrasser, 1780 - one male specimen, the edge of Tinca forest (BH), October 12. Relatively common species in Romania, it is noted that the flight period is extended by two months (Rakosy, 2013).

The Odonata Order

-*Sympetrum sanguineum* Muller, 1764 - one male specimen, Tinca (BH), October 7. Generally, common species in Romania. Flight season: April-August, although some may persist well into November (Dijkstra, 2006).

-*Aeshna mixta* Latreille, 1805 - one male specimen, the edge of Tinca forest (BH), October 13. Relatively common species in Romania, flight season: April-September.

The Mantodea Order

-*Mantis religiosa* Linnaeus, 1758 - one green female specimen, Tinca(BH), October 16; one brown female specimen, Tinca(BH), October 17. Common species in Romania.

Pisces Class

-*Tinca tinca* Linnaeus, 1758 - one specimen, Tăut (BH), Crișul Negru river, September 26. Very rare species in Romania.

Amphibia Class

-*Hyla arborea* Linnaeus, 1758 - one male specimen singing, Tinca (BH), September 13, 18, 24, 28, 29; October 1, 13. Common species in Romania.

-*Salamandra salamandra* Linnaeus, 1758 - one specimen, Ucuriș(BH), April 10. Common species in hilly and mountainous areas from Romania.

Reptilia Class

-*Lacerta viridis* Linnaeus, 1758 - one male specimen, Tinca forest(BH), October 12. Common species in Romania.

-*Lacerta agilis* Linnaeus, 1758 - two specimens, the edge of Tinca forest (BH), October 12. Common species in Romania.

Aves Class

-*Circaetus gallicus* Gmelin, 1788 - one specimen, Drobeta Turnu-Severin (MH), September 12. Summer visitor, species became relatively rare at national level.

-*Buteo buteo* Linnaeus, 1758 - ten specimens observed along Salonta (BH) – Craiova (DJ) route, September 11; one specimen, Leș(BH), September 29. Common species in Romania.

-*Falco tinnunculus* Linnaeus, 1758 – two male specimens, Salonta(BH); one male specimen, Vinga (TM); one female specimen, Timișoara (TM); one male specimen, Ciumeghiu (BH), September 11; one male specimen, Oradea (BH), September 29. Relatively common species in Romania.

-*Phylloscopus collybita* Vieillot, 1817 - one male singing, Tinca (BH), September 18. Summer visitor, relatively common species in Romania.

-*Athene noctua* Scopoli, 1769 - one pellet, L=5cm, l=1.5cm, contained beans of *Apodemus sylvaticus* Linnaeus, 1758 and remains of little coleopterans, Tinca(BH), September 19. Common, sedentary species in Romania.

-*Phasianus colchicus* Linnaeus, 1758 - three eggs and two nestlings, Aleșd (BH), August 25. Probably, this is the third yearly generation, observed by Ilie even in Tinca area (BH) but in September-November in the last years. Common, sedentary species in Romania.

-*Mergus serrator* Linnaeus, 1758 - one male specimen, Tinca (BH), Crișul Negru river, September 19. Surprising the presence of the species at this date, being winter visitor at national level.

-*Netta rufina* Pallas, 1773 - one male specimen, Tinca (BH), Crișul Negru river, September 19. Summer visitor, rarely in winter in Romania.

-*Falco vespertinus* Linnaeus, 1766 - one female specimen, Tinca(BH), September 18. Summer visitor, relatively rare species in Romania.

- Delichon urbica* Linnaeus, 1758 - one specimen (probably the last of this year), Tinca(BH), September 21. Summer visitor, common species in Romania.
- Corvus corax* Linnaeus, 1758 - one pair, Tinca(BH), September 21; one male specimen, Tinca(BH), October 5; one pair, Tinca forest (BH), October 12. Sedentary, relatively common species in Romania.
- Anser anser* Linnaeus, 1758 - one female specimen with three goose bumps, Oradea (BH), September 12. In this case this is an additional clutch (the second), unmentioned in the scientific literature. Partial migratory species in Romania.
- Carduelis cannabina* Linnaeus, 1758 - one pair, Tinca (BH), September 21. Partial migratory, relatively common species in Romania.
- Panurus biarmicus* Linnaeus, 1758 - five male specimens, two female specimens, Tinca (BH), September 21. Sedentary species in Romania.
- Cygnus olor* Gmelin, 1789 - two immature specimens, Drobeta Turnu-Severin (MH), Danube river, September 11; one adult specimen, the same place, September 14. Partial migratory species at national level.
- Phalacrocorax pygmaeus* Pallas, 1773 - three specimens, Drobeta Turnu-Severin-MH (Iron Gates), September 14. Summer visitor, rarely in winter in Romania.
- Phalacrocorax carbo* Linnaeus, 1758 - two specimens, Drobeta Turnu-Severin(MH), Danube river, September 14; one specimen, Tinca (BH), September 30; seven specimens, Tinca (BH), October 12. Summer visitor, rarely in winter at national level.
- Larus ridibundus* Linnaeus, 1766 - many immature and adults along the Danube river, on Orşova-Drobeta Turnu-Severin route (MH), September 11-14. Partial migratory species.
- Tachybaptus ruficollis* Pallas, 1764 - one specimen, Drobeta Turnu-Severin-MH (Iron Gates), September 14. Summer visitor, rarely in winter in Romania.
- Falco columbarius* Linnaeus, 1758 - one male specimen, Tinca (BH), September 4. Surprising the presence of the species at this date, being winter visitor at national level.
- Columba palumbus* Linnaeus, 1758 - one adult and four juvenile specimens, Oradea (BH), September 16, near Peța rivulet. In this case this is the fourth yearly generation unmentioned than in the book of Hoehner (1973) who mentions this clutch in September. Probably the clutch was deposited at the end of August. Generally, the number of eggs is two, rarely one or

three (in this case, this clutch presented four eggs, case unmentioned in the scientific literature).

-*Podiceps cristatus* Linnaeus, 1758 - one male specimen, Miersig lake (BH), September 22. Summer visitor in Romania.

-*Hirundo rustica* Linnaeus, 1758 - 21 specimens (probably northern specimens being in migration), Tinca (BH), September 24; twenty juvenile specimens (probably northern specimens), Tinca (BH), September 30. Summer visitor, common species in Romania.

-*Accipiter brevipes* Severtzov, 1850 - one male specimen, Cheșa (BH), September 25; one male specimen, Tinca (BH), October 13. Summer visitor, relatively rare species in Romania.

-*Certhia familiaris* Linnaeus, 1758 - one specimen, Belfir (BH), September 25. Sedentary species, relatively common species in deciduous forests from Romania.

-*Oriolus oriolus* Linnaeus, 1758 - one male specimen, Cheșa (BH), September 24; one male specimen, Râpa (BH), September 26; one male specimen, Tinca spa (BH), October 3. Summer visitor, relatively common species in Romania.

-*Parus cyanus* Pallas, 1766 - one specimen, Cociuba Mare forest (BH), September 26; one specimen, Râpa (BH), October 3. Winter visitor (surprising the presence of the species at this date!), accidental, very rare species in Romania.

-*Aegypius monachus* Linnaeus, 1766 - one immature specimen, Belfir (BH), September 26. Accidental, very rare species in Romania.

-*Parus cristatus* Linnaeus, 1758 - two specimens, Brad (AB), September 26. Sedentary, common species in the mountains areas from Romania.

-*Accipiter nissus* Linnaeus, 1758 - one juvenile specimen, Tinca (BH), September 24, 27 and Belfir (BH), October 13. Sedentary, common species in Romania.

-*Parus ater* Linnaeus, 1758 - four specimens, Râpa (BH), October 2. Sedentary, relatively common species in the hilly areas of Romania.

-*Eremophila alpestris* Linnaeus, 1758 - one male specimen, Belfir (BH), October 1. Summer or winter visitor, relatively common species in the mountainous areas of Romania.

-*Ficedula hypoleuca* Pallas, 1764 - one male specimen, Tinca (BH), October 2. Summer visitor, rare species at national level.

-*Sturnus roseus* Linnaeus, 1758 - two specimens, Râpa (BH), October 1. Summer visitor, relatively rare species in Romania.

-*Accipiter gentilis* Linnaeus, 1758 - one female specimen, Tinca (BH), October 5. Sedentary, common species in Romania.

-*Platalea leucorodia* Linnaeus, 1758 - one specimen, Tinca (BH), Crișul Negru river, October 3. Summer visitor, relatively common species in Romania.

-*Phoenicurus phoenicurus* Linnaeus, 1758 - breeding species inside the Râpa village, during 2018-2019. Summer visitor, relatively common species in the deciduous forests from Romania.

-*Grus grus* Linnaeus, 1758 - one specimen, Măgești (BH), October 5. Passage species and winter visitor at national level.

-*Coccothraustes coccothraustes* Linnaeus, 1758 - one specimen, Tinca (BH), October 8. Sedentary, common species in the deciduous forests from Romania.

-*Hippolais icterina* Vieillot, 1817 - one specimen, Tinca (BH), October 8; one specimen, Tinca forest (BH), October 12. Summer visitor, relatively common species in the plain areas from Romania. Probably, this is the latest mention for this species in Romania.

-*Anas platyrhynchos* Linnaeus, 1758 - 62 specimens, Tinca (BH), October 8. Sedentary, common species near waters in Romania.

-*Aythya nyroca* Guldensmidt, 1770 - one female specimen with five duck buds, Cheșa (BH), Crișul Negru river, October 8. This is the second yearly clutch, unmentioned in the scientific literature. Summer visitor, rarely in winter in Romania, near waters.

-*Luscinia svecica* Linnaeus, 1758 - one male specimen, Tinca (BH), October 8. Summer visitor or passage species in Romania.

-*Hirundo daurica* Laxmann, 1769 - one specimen, Belfir (BH), October 9. Summer visitor, rare species in Romania.

-*Plectrophenax nivalis* Linnaeus, 1758 - one female specimen, Tinca (BH), October 7. Surprising the presence of this species at this date, being winter visitor (probably, this is the earliest mention for this species in Romania!).

-*Carpodacus erythrinus* Pallas, 1770 - one male specimen, Râpa (BH), October 8. Summer visitor, relatively rare species in Romania.

-*Coturnix coturnix* Linnaeus, 1758 - one specimen, Cheșa (BH), October 10. Sedentary, common species in the plain areas from Romania.

-*Alauda arvensis* Linnaeus, 1758 - one specimen, Cheșa (BH), October 10. Partial migratory species, common in the plain areas from Romania.

-*Sylvia curruca* Linnaeus, 1758 - one male specimen, Tinca (BH), October 10; one male specimen, Cheșa (BH), October 12. Summer visitor, relatively common species in the hilly and plain areas from Romania.

-*Troglodytes troglodytes* Linnaeus, 1758 - one specimen, Tinca forest (BH), October 12. Summer visitor, rarely winter visitor, common species in the deciduous forests from Romania.

-*Turdus pilaris* Linnaeus, 1758 - four specimens, the edge of Tinca forest (BH), October 12. Sedentary or winter visitor, relatively common species in Romania.

-*Parus major* Linnaeus, 1758 - one specimen with entirely yellow abdomen (without the characteristic black spot, being no juvenile specimen), the edge of Tinca forest (BH), October 12. Sedentary, common species in Romania.

-*Parus montanus* Baldenstein, 1827 - two specimens, the edge of Tinca forest (BH), October 12. Sedentary, common species in the mountainous areas from Romania.

-*Hippolais pallida* Ehrenberg, 1833 - one specimen, Oradea (BH), October 15. Summer visitor in Romania, this is the latest mention for this species in Romania.

-*Buteo rufinus* Cretzschmar, 1829 - one specimen, Cheşa (BH), October 14. Summer visitor or passage species in Romania.

-*Tarsiger cyanurus* Pallas, 1773 - one male specimen, Cociuba Mare (BH), October 14. Passage species or rarely winter visitor, very rare species in Romania.

-*Pernis apivorus* Linnaeus, 1758 - one specimen, Cheşa (BH), August 15. Summer visitor, relatively rare species in Romania.

-*Gyps fulvus* Hablitz, 1783 - one immature specimen, Belfir (BH), October 11. Accidental, very rare species in Romania.

-*Erithacus rubecula* Linnaeus, 1758 - one specimen, Râpa (BH), October 14. Summer visitor or rarely winter visitor, common species in the deciduous forests from Romania.

-*Phalaropus lobatus* Linnaeus, 1758 - one specimen with winter plumage, Tinca (BH), Crişul Negru river, October 12. Passage, rare species in Romania.

-*Streptopelia decaocto* Frivaldszky, 1838 - one broken egg, Tinca (BH), October 16. This egg belongs to the sixth yearly clutch, confirming again the observations of Ilie in Tinca area in the last years. Sedentary, very common species in Romania.

-*Motacilla cinerea* Tunstall, 1771 - three specimens, Tinca (BH), October 17. Summer visitor, rarely in winter, relatively common species in the mountainous areas from Romania.

Mammalia Class

-*Rhinolophus ferrumequinum* Schreber, 1774 - four specimens, Tinca(BH), September 22-24; two specimens, Tinca(BH), September 29; three specimens, Tinca(BH), October 1. Common species in Romania.

-*Pipistrellus pipistrellus* Schreber, 1774 - one specimen, Tinca(BH), September 23-25; one specimen Tinca(BH), October 1, 9. Common species in Romania.

-*Mustela nivalis* Linnaeus,1758-one excreta, L=2.5cm, l=2.2mm, contained remains of little coleopterans, Tinca(BH), September 22. Common species in Romania.

-*Talpa europaea* Linnaeus, 1758-one specimen, Leș(BH), September 29. Common species in Romania.

-*Vulpes vulpes* Linnaeus, 1858-one male specimen, 100% black (melanistic specimen), Cheșa(BH), August 16. This chromatic variety is very rare in nature. Common species in Romania.

Legend: BH-Bihor county, MH-Mehedinți county, DJ-Dolj county, AR-Arad county, TM-Timiș county; AB=Alba county.

CONCLUSIONS

During 2019 in the western part of Romania were recorded 98 species belonging to seven classes and 84 genera. There were obtained ecological data of these species ,some of them unknown in the scientific literature about phenological anomalies,additional yearly clutches,the size of the clutch, chromatic varieties. Frequent species of butterflies in 2019 in the western part of Romania: *Vanessa cardui* L.

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