

## THE SPECIES OF MACROLEPIDOPTERA COLLECTED FROM CISNĂDIOARA AND CISNĂDIE, COUNTY SIBIU, EXISTING WITHIN THE COLLECTION OF DR. VIKTOR WEINDEL

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**Abstract.** The present study makes an important contribution to the knowledge of fauna of lepidoptera collected between the years 1904-1956, from the surroundings of Sibiu. The paper systematically presents the collected material from localities of Cisnădie (Măgura Cisnădiei) updating the nomenclature according to the latest published lepidoptera list in Romania: *Catalog of lepidoptera of Romania* (RÁKOSY et al., 2003). The systematic list includes 10 Macrolepidoptera families, totalizing a number of 166 species, the most representative species being the families which belong to the families: Geometridae, Papilionidae, Lycaenidae și Nymphalidae. The specimens collected over 52 years, represents a valuable contribution to the knowledge of the lepidopteran species existing in the past in the towns of Cisnădioara and Cisnădie in the Sibiu County.

**Keywords:** Lepidoptera, collection Dr. V. Weindel, Cisnădioara, Cisnădie and Măgura Cisnădiei, Sibiu, biodiversity.

**Rezumat. Specii de lepidoptere colectate din Cisnădioara și Cisnădie, județul Sibiu, existente în cadrul colecției dr. Viktor Weindel.** Prezentul studiu aduce o contribuție importantă la cunoașterea faunei de lepidoptere colectate între anii 1904-1956, din împrejurimile Sibiului. Lucrarea prezintă în ordine sistematică materialului colectat din localitățile Cisnădioara, Cisnădie (Măgura Cisnădiei), actualizându-se nomenclatura după ultima listă publicată a lepidopterelor din România: *Catalogul lepidopterelor României* (RÁKOSY et al., 2003). Lista sistematică cuprinde 10 familii de Macrolepidoptere, totalizând un număr de 166 de specii, cel mai bine reprezentate fiind speciile aparținând Familiilor: Geometridae, Papilionidae, Lycaenidae și Nymphalidae. Exemplele colectate pe parcursul a 52 de ani, reprezintă o contribuție valoroasă la cunoașterea speciilor de lepidoptere existente în trecut în localitățile Cisnădioara și Cisnădie din Județul Sibiu.

**Cuvinte cheie:** lepidoptere, colecție Dr. V. Weindel, Cișnădioara, Cisnădie și Măgura Cisnădiei, Sibiu, biodiversitate.

### INTRODUCTION

Entomological researches in Sibiu and the surroundings of Sibiu have been carried out over time by various authors (WORELL, 1951; BUCȘA & TĂUȘAN, 2011). In Transylvania the post-war years played an important role in knowing the fauna of Lepidoptera, and the collections of the Sibiu Saxons that made their own collections were studied by the following specialists: (CZEKELIUS, 1897, 1917; NICULESCU, 1961, 1963, 1965; CĂPUȘE, 1968; POPESCU-GORJ, 1970; NICULESCU & KÖNIG, 1970; SZÉKELY, 1996, 2003, (STANCĂ-MOISE, 2018b). The last years are also marked by complex works in which valuable scientific data on Romania's lepidoptera fauna was published (SZÉKELY, 2008, 2014). Recent gatherings in the surroundings of Sibiu (TÖRÖK & CUZEPAN, 2014; STANCĂ-MOISE, 2016b) and inventory of lepidopteran species were carried out in the Sibiel village (STANCĂ-MOISE, 2016a) and Mediaș (TÖRÖK, 2012).

The collection of Lepidoptera of the Saxons in Sibiu: Dr. Daniel Czekelius, Dr. Eugen Worell, Dr. Viktor Weindel, Heinrich v. Hannenheim, Rolf Weyrauch, Ekbert Schneider contains rich documentary material (SCHNEIDER, 1996; STANCĂ-MOISE, 2002; MOISE, 2011a, b, c, d) among which V. Weindel's collection is present within the Museum of Natural History in Sibiu.

The value of these collections is invaluable, but the information about the place, date and year of collection is still unpublished. Some families and numerous species have been verified over the years by various specialists in the country and abroad, but there are few faunistic and taxonomic data published from the large amount of information that can be obtained by studying these collections.

It is now necessary to process this rich entomological material with a documentary character, the taxonomy needs to be revised, the nomenclature has to be updated, catalogues on collections and collectors must be compiled, and most importantly a database must be developed for this information to be accessible to every specialist.

The place where large numbers of specimens were collected in this study is the town of Cisnădie, located 10 km south of Sibiu, on the valley of the Silver Valley (Silberbach) and the Ursul Brook (Bärenbach) at the foot of the Cisnădie Măgura (Götzenberg). The flora of Cisnădie is made up of the hills that extend from the edge of the mountains between Sadu and Cisnădie, from Cisnădioara Citadel and Măgura Poplăcii to the contact between the sedimentary and the crystalline, both on the piedmont hills and the crystalline substrate, climbing the southern slopes of mountain range up to an altitude of 800 m (SCHNEIDER-BINDER, 1972). The dominant soils in this region are the moderately acidic and acidic brownish browns where the dominant species are the shrubs on the crystalline shale (SCHNEIDER-BINDER, 1971).

The crystalline substratum on the hill of Cisnădioara located 2 km away from Cisnădie and 8 km away from the city of Sibiu is conditioning the existence of different species characteristic of silico cliffs such as *Asplenium trichomanes* and *Asplenium adiantum*, which constitute the trophic base for the multitude of lepidopteran species

collected over time within the studied area. These species of spontaneous flora are also found on the hill of Cisnădioara, in the Catrina Forest (Cisnădioarea forest), which lies between the Valea Rece (The Cold Valley) in the east, occupying both sides of this valley in the upper part, Seviş River at the North and West, passing through the hill of The Cuckoo that descends to the village of Cisnădioara. These forests have been altered by human intervention, and oak species in some places, in the northern areas, NW and NE, where horseradish ranges from codominance to dominance (SCHNEIDER-BINDER, 1973).

The modification of the ecosystem of Cisnădie and Cisnădioara is the effect of human action that, through the construction of residential complexes, led to forest deforestation and the removal of land from its former use as grassland or agricultural land. All these interventions in biocenoses have led to the disappearance of some insect species and especially butterflies that are pollinating, important by the disappearance of the host plants that were the trophic base for the larvae and the place for depositing the ponto for adults.

## MATERIALS AND METHOD

Studies in the entomological collection of V. Weindel currently existing at the Natural History Museum in Sibiu (VLAD-ANTONIE & CIOBANU, 2004) were conducted by the author (STANCĂ-MOISE), who published over the years species of lepidoptera collected from Dumbrava Sibiului (STANCĂ-MOISE, 2015) Păltiniş (STANCĂ-MOISE, 2017) and Guşteriţa Hills (MOISE, 2016; STANCĂ-MOISE, 2018a). The species collected by V. Weindel over the years cover the time span of the years 1900-1959 and come from different areas of Romania, but many from the surroundings of Sibiu.

From the entire Macro and Microlepidopter collection of 4,322 copies (SCHNEIDER, 1996), the present study includes the systematic list of Macrolepidoptera collected from 1905-1956 in the Cisnădioara and Cisnădie localities located near Sibiu. A number of 166 specimens have been reported in the collection, and the systematic list presented includes the collection dates (day, month, year), actualization of the species according to the "Catalog of Lepidoptera of Romania" (RAKOSY et al., 2003).

I also made a verification of all data after the Catalogue: *Macrolepidopterele din colecția Dr. V. Weindel* published by SCHNEIDER (1984).

The systematic list is brought up to date in accordance with the nomenclature presented by with an identification number for every species.

## RESULTS AND DISCUSSIONS

This paper presents the systematic list of the Lepidoptera species collected during the years 1904-1956, on the Cisnădioara și Cisnădie, near Sibiu city. These species are in the Lepidoptera Collection of *Dr. Victor Weindel*, preserved at the Natural History Museum in Sibiu.

### 1. Family LASIOCAMPIDAE

1. *Lasiocampa trifolii trifolii* ([Denis & Schiffermüller]: 1775): Cisnădioara August 21, 1907; August 18, 1907 (3321 Ro, 6749 K & R)

2. *Lasiocampa quercus quercus* (Linnaeus, 1758): Cisnădioara August 6, 1907; Măgura Cisnădiei July 8, 1951 (2 ex.) (3323 Ro, 6752 K & R)

### 2. Family SATURNIIDAE

3. *Agria tau* (Linnaeus, 1758): Măgura Cisnădiei May 24, 1904; April 29, 1956 (3347 Ro, 6788 K & R)

### 3. Family PAPILIONIDAE

4. *Parnassius mnemosyne distinca* Bryk & Eisner, 1930: Cisnădioara May 22, 1904 (5 ex.); June 13, 1954 (5 ex.) (3454 Ro, 6953 K & R)

5. *Leptidea sinapis sinapis* (Linnaeus, 1758): Măgura Cisnădiei May 22, 1904; May 11, 1952; June 14, 1908; June 29, 1907; June 30, 1907 (3 ex.); Cisnădioara June 12, 1908 (3464 Ro, 6966 K & R)

6. *Aporia crataegi crataegi* (Linnaeus, 1758): Schweinswiese (Măgura Cisnădiei) June 13, 1954 (3 ex.) (3474 Ro, 6993 K & R)

7. *Anthocharis cardamines* (Linnaeus, 1758): Cisnădioara June 13, 1954 (2 ex.) (3469 Ro, 6973 K & R)

8. *Pieris rapae rapae* (Linnaeus, 1758): Cisnădioara July 26, 1907; July 29, 1907 (3478 Ro, 6998 K & R)

9. *Pontia daplidice* Auct. Cisnădioara October 3, 1926 (3484 Ro, 7003 K & R)

10. *Pieris brassicae brassicae* (Linnaeus, 1758): Schweinswiese (Măgura Cisnădiei) May 22, 1921 (3 ex.) (3476 Ro, 6995 K & R)

11. *Pieris napi napi* (Linnaeus, 1758): Schweinswiese (Măgura Cisnădiei) May 22, 1904; May 1, 1904; July 30, 1907 (3480 Ro, 7000 K & R)

12. *Colias hyale* (Linnaeus, 1758): April 30, 1922; Schweinswiese (Măgura Cisnădiei) October 3, 1926 (3492 Ro, 7021 K & R)

13. *Colias croceus* (Fourcroy, 1785): Cisnădioara October 4, 1925; October 3, 1926; July 1, 1957 (3489 Ro, 7015 K & R)

14. *Colias myrmidone myrmidone* (Esper, 1780): Cisnădioara August 2, 1907; August 31, 1907 (3490 Ro, 7017 K & R)

15. *Gonepteryx rhamni rhamni* (Linnaeus, 1758): Cisnădioara Aprilie 14, 1921 (3495 Ro, 7024 K & R)

**4. Family LYCAENIDAE**

16. *Hemeris lucina* (Linnaeus, 1758): Cislădioara July 30, 1907 (2 ex.); Măgura Cislădiei May 11, 1952 (3499 Ro, 7030 K & R)
17. *Thecla betulae* (Linnaeus, 1758): Cislădioara August 10, 1908 (3512 Ro, 7047 K & R)
18. *Neozephyrus quercus quercus* (Linnaeus, 1758): Cislădioara July 18, 1907; July 29, 1907 (3514 Ro, 7049 K & R)
19. *Callophrys rubi* (Linnaeus, 1758): Măgura Cislădiei May 22, 1921; Cislădioara April 30, 1922 (3518 Ro, 7058 K & R)
22. *Satyrrium ilicis* (Esper, 1779): 6.VII.1907 (3523 Ro, 7065 K & R)
20. *Lycaena phlaeas phlaeas* (Linnaeus, 1761): Măgura Cislădiei July 19, 1907; Cislădie July 12, 1925 (3502 Ro, 7034 K & R)
21. *Lycaena dispar* (Haworth, 1802): Cislădioara August 2, 1907 (3505 Ro, 7037 K & R)
22. *Lycaena virgaureae virgaureae* (Linnaeus, 1761): Cislădie July 12, 1925 (3504 Ro, 7036 K & R)
23. *Lycaena tityrus tityrus* (Poda, 1761): Cislădioara July 19, 1907; July 29, 1907 (2 ex.); July 30, 1907 (2 ex.), August 31, 1907; August 11, 1910; Măgura Cislădiei May 22, 1904 (3506 Ro, 7039 K & R)
24. *Everes argiades* (Pallas, 1771): Cislădioara July 15, 1907; August 22, 1907; July 12, 1908; April 14, 1921; Măgura Cislădiei September 7, 1952 (3536 Ro, 7093 K & R)
25. *Everes decolorata* (Staudinger, 1886): Cislădioara July 29, 1907 (3537 Ro, 7094 K & R)
26. *Maculinea teleius* (Bergsträsser, 1779): Cislădioara July 30, 1907 (3552 Ro, 7113 K & R)
27. *Plebeius argus argus* (Linnaeus, 1761): Cislădioara July 29, 1907 (3560 Ro, 7127 K & R)
28. *Aricia artaxerxes* (Fabricius, 1793): Cislădioara July 29, 1907; August 21, 1907 (3568 Ro, 7146 K & R)
29. *Polyommatus thersites* (Cantener, 1835): Cislădioara July 29, 1907 (3577 Ro, 7162 K & R)
30. *Polyommatus icarus* (Rottemburg, 1775): Cislădioara July 15, 1907; July 29, 1907 (9 ex.); July 30, 1907 (2 ex.); August 24, 1907; July 26, 1908, August 8, 1910 (3578 Ro, 7163 K & R)
31. *Meleargia coridon coridon* (Poda, 1761): Cislădioara July 29, 1907 (3581 Ro, 7172 K & R)

**5. Family NYMPHALIDAE**

32. *Argynnis paphia paphia* (Linnaeus, 1758): Cislădioara July 12, 1908; Măgura Cislădiei July 14, 1903 (3593 Ro, 7202 K & R)
33. *Argynnis pandora* ([Denis & Schiffermüller], 1775): Cislădioara August 29, 1906 (3594 Ro, 7203 K & R)
34. *Argynnis aglaja* (Linnaeus, 1758): Măgura Cislădiei July 19, 1907; July 14, 1908; July 16, 1907; July 12, 1908, Cislădie July 12, 1925 (3595 Ro, 7204 K & R)
35. *Argynnis adippe* ([Denis & Schiffermüller], 1775): Măgura Cislădiei July 19, 1907 (3 ex.) (3596 Ro, 7205 K & R)
36. *Argynnis laodice* (Pallas, 1771): Cislădioara August 31, 1907 (3598 Ro, 7208 K & R)
37. *Issoria lathonia* (Linnaeus, 1758): Măgura Cislădiei August 23, 1925 (3600 Ro, 7210 K & R)
38. *Boloria euphrosyne* (Linnaeus, 1758): Măgura Cislădiei May 22, 1904; May 22, 1921; August 31, 1907; Cislădie April 14, 1922; Măgura Cislădiei September 5, 1954 (3607 Ro, 7220 K & R)
39. *Boloria selene selene* ([Denis & Schiffermüller]: 1775): Cislădioara August 2, 1907 (3609 Ro, 7222 K & R)
40. *Vanessa cardui* (Linnaeus, 1758): July 30, 1907; Cislădioara August 2, 1907 (2 ex.) (3617 Ro, 7245 K & R)
41. *Polygonia c-album* (Linnaeus, 1758): July 15, 1907; Măgura Cislădiei July 19, 1907; Cislădie July 12, 1925 (3623 Ro, 7252 K & R)
42. *Melitaea didyma didyma* (Esper, 1778): Cislădioara July 18, 1907; July 30, 1907 (2 ex.); Cislădie August 30, 1907 (2 ex.) (3641 Ro, 7276 K & R)
43. *Melitaea aurelia aurelia* Nickerl, 1850: Cislădioara (Pădurea Catrinei) June 9 (fara an), leg. Czekelius (3643 Ro, 7280 K & R)
44. *Melitaea athalia athalia* (Rottemburg, 1775): Măgura Cislădiei July 1, 1951; Cislădioara (Pădurea Catrinei) July 13, 1956 (3645 Ro, 7283 K & R)
45. *Inachis io* (Linnaeus, 1758): Măgura Cislădiei July 19, 1907 (3619 Ro, 7248 K & R)
46. *Nymphalis antiopa* (Linnaeus, 1758): Cislădioara July 9, 1905 (3628 Ro, 7257 K & R)
47. *Nymphalis vsualbum* ([Denis & Schiffermüller], 1775): Măgura Cislădiei July 14, 1908 (3631 Ro, 7260 K & R)
48. *Apatura ilia ilia* ([Denis & Schiffermüller], 1775): Cislădioara July 7, 1905 (3657 Ro, 7298 K & R)
49. *Apatura iris* (Linnaeus, 1758): Cislădioara July 19, 1907 (3658 Ro, 7299 K & R)
50. *Pararge aegeria* (Linnaeus, 1758): Cislădioara July 26, 1907; July 14, 1908; Măgura Cislădiei May 22, 1921; May 20, 1957 (2 ex.); (3665 Ro, 7307 K & R)
51. *Lasiommata megera megera* (Linnaeus, 1767): Cislădioara July 29, 1907; Măgura Cislădiei September 7, 1952 (3667 Ro, 7309 K & R)
52. *Lasiommata maera maera* (Linnaeus, 1758): Măgura Cislădiei July 14, 1908 (6 ex.) (3668 Ro, 7312 K & R)
53. *Maniola jurtina jurtina* (Linnaeus, 1758): Cislădioara July 15, 1907 (2 ex.); July 18, 1907 (3 ex.); July 26, 1907 (2 ex.); August 31, 1907; July 14, 1908 (3684 Ro, 7350 K & R)
54. *Erebia ligea* (Linnaeus, 1758): Măgura Cislădiei July 19, 1907 (5 ex.); July 12, 1925 (2 ex.) (3689 Ro, 7360 K & R)
55. *Erebia euryale* (Esper, 1805): Cislădioara August 9, 1910 (3690 Ro, 7361 K & R)
56. *Hipparchia fagi* (Scopoli, 1763): Cislădioara August 4, 1907 (2 ex.); July 26, 1907; August 9, 1910 (3708 Ro, 7429 K & R)
57. *Coenonympha arcania arcania* (Linnaeus, 1758): Măgura Cislădiei July 8, 1951 (2 ex.) (3674 Ro, 7325 K & R)

58. *Coenonympha glycerion glycerion* (Borkhausen, 1788): Cislădioara July 15, 1907; August 2, 1907 (2 ex.) (3675 Ro, 7326 K & R)
59. *Coenonympha pamphilus* (Linnaeus, 1758): July 15, 1907; July 29, 1907; August 31, 1907 (2 ex.); April 14, 1921; Cislădie April 30, 1922; May 11, 1958 (3677 Ro, 7334 K & R)
60. *Melanargia galathea* (Linnaeus, 1758): Cislădioara July 18, 1907 (3 ex.); Măgura Cislădiei July 14, 1908; August 23, 1925; Cislădie July 12, 1925 (3704 Ro, 7415 K & R)
61. *Minois dryas* (Scopoli, 1763): Cislădioara July 18, 1907; August 2, 1907; July 18, 1907 (3706 Ro, 7427 K & R)
- 6. Family DREPANIDAE**
62. *Watsonalla cultraria* (Fabricius, 1775): Măgura Cislădiei May 1, 1904; May 11, 1952; Cislădioara July 13, 1908 (3746 Ro, 7505 K & R)
- 7. Family GEOMETRIDAE**
63. *Macaria alternaria* Hübner, [1805]: Cislădioara July 16, 1907; August 2, 1907; August 3, 1907; July 17, 1908 (3777 Ro, 7540 K & R)
64. *Chiasmia clathrata* (Linnaeus, 1758): Cislădioara July 29, 1907 (2 ex.); July 30, 1907; July 12, 1925; Schweinswiese (Măgura Cislădiei) Cislădioara June 13, 1954 (3784 Ro, 7547 K & R)
65. *Plagodis dolabraria* (Linnaeus, 1758): (Măgura Cislădiei) June 13, 1954 (3807 Ro, 7607 K & R)
66. *Ennomos quercinaria* (Hufnagel, 1767): Cislădioara August 4, 1907; July 13, 1908 (3826 Ro, 7633 K & R)
67. *Ennomos erosaria* ([Denis & Schiffermüller]: Cislădioara July 13, 1908 (2 ex.) (3829 Ro, 7636 K & R)
68. *Artiora evonymaria* ([Denis & Schiffermüller]: 1775): Cislădioara August 24, 1908 (3836 Ro, 7645 K & R)
69. *Alcis repandata* (Linnaeus, 1758): Măgura Cislădiei July 12, 1925 (3897 Ro, 7777 K & R)
70. *Hypomecis punctinalis* (Scopoli, 1763): Cislădioara August 26, 1907 (3904 Ro, 7784 K & R)
71. *Fagivorina arenaria* (Hufnagel, 1767): Măgura Cislădiei July 1, 1951 (3908 Ro, 7792 K & R)
72. *Ectropis bistortata* Goeze, 1781: Cislădioara July 17, 1908 (3912 Ro, 7796 K & R)
73. *Parectropis extersaria* Hübner, [1799]: Măgura Cislădiei May 22, 1904 (3916 Ro, 7800 K & R)
74. *Ematurga atomaria atomaria* (Linnaeus, 1758): Cislădioara July 15, 1907; August 2, 1907; July 12, 1908, July 9, 1905 (3920 Ro, 7804 K & R)
75. *Campaea margaritata* (Linnaeus, 1767): Măgura Cislădiei July 14, 1908; July 8, 1951 (3937 Ro, 7836 K & R)
76. *Gnophos fuvrata* ([Denis & Schiffermüller], 1775): Cislădioara July 23, 1905 (3944 Ro, 7847 K & R)
77. *Siona lineata* (Scopoli, 1763): June 13, 1954; Măgura Cislădiei July 12, 1925 (3980 Ro, 7916 K & R)
78. *Pseudoterpna pruinata* (Hufnagel, 1767): Cislădioara July 23.1908, (4006 Ro, 7965 K & R)
79. *Chlorissa cloraria* (Hübner, [1813]): Cislădioara July 23.1907, July 30.1907 (4018 Ro, 7983 K & R)
80. *Chylophora punctaria* (Linnaeus, 1758): Cislădioara May 20.1920 (2 ex.) (4040 Ro, 8022 K & R)
81. *Scopula inmorata* (Linnaeus, 1758): Cislădioara August 19.1907 (4046 Ro, 8036 K & R)
82. *Scopula nigropunctata* (Hufnagel, 1767) Cislădioara July 16.1905, July 15, 1907 (4052 Ro, 8042 K & R)
83. *Scopula decorata decorata* ([Denis & Schiffermüller]: Cislădioara August 22, 1907; August 23, 1907; August 30, 1907 (4056 Ro, 8051 K & R)
84. *Scopula marginepunctata* (Goeze, 1781): Cislădioara August 28, 1907, August 30, 1907 (4059 Ro, 8059 K & R)
85. *Scopula incanata* (Linnaeus, 1758): Cislădioara August 12, 1907 (4060 Ro, 8060 K & R)
86. *Scopula immutata* (Linnaeus, 1758): Cislădioara August 20, 1907, August 26, 1907 (4062 Ro, 8064 K & R)
87. *Idaea ochrata* (Scopoli, 1763): Cislădioara August 23, 1925 Măgura Cislădiei (4077 Ro, 8099 K & R)
88. *Idaea serpentata* (Hufnagel, 1767): Cislădioara July 30, 1907, August 10, 1907 (4078 Ro, 8100 K & R)
89. *Idaea aureolaria* ([Denis & Schiffermüller], 1775): Cislădioara July 30, 1907 (4079 Ro, 8102 K & R)
90. *Idaea rusticata* ([Denis & Schiffermüller], 1775): Cislădioara August 10, 1907; August 3, 1908 (4081 Ro, 8107 K & R)
91. *Idaea laevigata* (Scopoli, 1763): July 6, 1905; Cislădioara July 16, 1907; July 12, 1908 (4083 Ro, 8111 K & R)
92. *Idaea fuscovenosa fuscovenosa* (Goeze, 1781): Cislădioara July 15, 1907 (4092 Ro, 8137 K & R)
93. *Idaea seriata* (Schrank, 1802): August 2, 1906; Cislădioara July 22, 1908; August 1, 1906 (4095 Ro, 8155 K & R)
94. *Idaea dimidiata* (Hufnagel, 1767): Cislădioara July 8, 1905 (4096 Ro, 8161 K & R)
95. *Idaea aversata aversata* (Linnaeus, 1758): Cislădioara August 9, 1907 (4105 Ro, 8184 K & R)
96. *Idaea straminata* (Borkhausen, 1794): Cislădioara July 17, 1907 (4108 Ro, 8187 K & R)
97. *Idaea deversaria* (Herrich-Schäffer, 1847): Cislădioara July 15, 1907 (4109 Ro, 8188 K & R)
98. *Lythria purpurata* Linnaeus, 1761: Cislădioara April 29, 1956, Rosengarten (Măgura Cislădiei) (4118 Ro, 8221 K & R)
99. *Scotopteryx moeniata* (Scopoli, 1763): Cislădioara August 13, 1907; August 10, 1910, Rosengarten (Măgura Cislădiei) September, 5, 1954 (4125 Ro, 8229 K & R)
100. *Scotopteryx chenopodiata* (Linnaeus, 1758): Cislădioara July 15, 1907; July 10, 1910; Rosengarten (Măgura Cislădiei) July 19, 1907 (4129 Ro, 8239 K & R)
101. *Scotopteryx luridata* (Hufnagel, 1767): Rosengarten (Măgura Cislădiei) July 14, 1908; May 22, 1921 (2 ex.); May 20, 1951; June 13, 1954 (2 ex.) (4132 Ro, 8241 K & R)
102. *Xanthorhoe spadicearia* ([Denis & Schiffermüller], 1775): Rosengarten (Măgura Cislădiei) May 22, 1904 (4140 Ro, 8252 K & R)
103. *Xanthorhoe ferrugata* (Clerck, 1759): July 15, 1907; Cislădioara August 1, 1907; August 11, 1907; August 12, 1907; August 8, 1910; August 15, 1910 (4141 Ro, 8253 K & R)

104. *Xanthorhoe quadrifasciata* (Clerck, 1759): Cîsnădioara July 19, 1908 (4142 Ro, 8254 K & R)  
 105. *Epirrhoe hastulata* (Hübner, 1790): Rosengarten (Măgura Cîsnădiei) May 22, 1921 (4153 Ro, 8272 K & R)  
 106. *Epirrhoe alternate* (Müller, 1764): Cîsnădioara July 26, 1907; August 27, 1907; (4155 Ro, 8275 K & R)  
 107. *Camptogramma bilineata* (Linnaeus, 1758): Cîsnădioara July 26, 1907 (2 ex.); August 26, 1907 (4162 Ro, 8289 K & R)  
 108. *Moseleuca albicillata* (Linnaeus, 1758): Cîsnădioara July 13, 1908 (4175 Ro, 8312 K & R)  
 109. *Pelurga comitata* (Linnaeus, 1758): Cîsnădioara August 10, 1910 (2 ex.); August 11, 1910 (2 ex.) (4177 Ro, 8314 K & R)  
 110. *Cosmorhoe ocellata* (Linnaeus, 1758): Cîsnădioara August 12, 1907; August 10, 1910 (4182 Ro, 8319 K & R)  
 111. *Ecliptopera silaceata* ([Denis & Schiffermüller], 1775): Rosengarten (Măgura Cîsnădiei) July 12, 1908 (4196 Ro, 8338 K & R)  
 112. *Hydriomena furcata* (Thunberg, 1784): Rosengarten (Măgura Cîsnădiei) July 14, 1908 (3 ex.) (4228 Ro, 8391 K & R)  
 113. *Perizoma alchemillata* (Linnaeus, 1758): Cîsnădioara August 13, 1907; August 10, 1908 (4274 Ro, 8456 K & R)  
 114. *Chesias rufala rufala* (Fabricius, 1775): Rosengarten (Măgura Cîsnădiei) August 12, 1925 (4381 Ro, 8610 K & R)  
 115. *Aplocera plagiata* (Linnaeus, 1758): Rosengarten (Măgura Cîsnădiei) October 3, 1926 (4386 Ro, 8620 K & R)  
 116. *Asthena albulata* (Hufnagel, 1767): Rosengarten (Măgura Cîsnădiei) July 12, 1925 (4407 Ro, 8656 K & R)  
 117. *Lobophora halterata* (Hufnagel, 1767): Cîsnădioara April 30, 1922 (4415 Ro, 8665 K & R)  
 118. *Acronicta tridens tridens* ([Denis & Schiffermüller], 1775): July 23, 1908 (4503 Ro, 8776 K & R)  
 119. *Acronicta rumicis* (Linnaeus, 1758): Cîsnădioara August 7, 1907; August 23, 1907; August 24, 1908; August 1908 (without the day of collection) (4514 Ro, 8787 K & R)  
 120. *Cryphia algae* (Fabricius, 1775): Cîsnădioara August 27, 1907 (4526 Ro, 8801 K & R)  
 121. *Cryphia ereptricula* (Treitschke, 1825): Cîsnădioara July 17, 1907; August 4, 1907; August 5, 1907 (4529 Ro, 8806 K & R)  
 122. *Idia calvaria* ([Denis & Schiffermüller], 1775): Cîsnădioara July 18, 1905 (4540 Ro, 8835 K & R)  
 123. *Catocala nupta nupta* (Linnaeus, 1758): Cîsnădioara July 12, 1905; July 19, 1905; July 29, 1907 (4573 Ro, 8874 K & R)  
 124. *Catocala elocata elocata* (Esper, 1787): Cîsnădioara August 7, 1905; August 14, 1905; August 10, 1908 (4574 Ro, 8877 K & R)  
 125. *Catocala promissa promissa* ([Denis & Schiffermüller], 1775): Cîsnădioara July 13, 1908 (4576 Ro, 8882 K & R)  
 126. *Catocala fulminea fulminea* (Scopoli, 1763): Cîsnădioara July 6, 1905; July 24, 1905 (4581 Ro, 8890 K & R)  
 127. *Callistege mi mi* (Clerck, 1759): Măgura Cîsnădiei May 22, 1921 (4615 Ro, 8967 K & R)  
 128. *Euclidia glyphica* (Linnaeus, 1758): Măgura Cîsnădiei May 22, 1921 (4617 Ro, 8969 K & R)  
 129. *Hypena proboscidalis* (Linnaeus, 1758): Cîsnădioara August 28, 1907; July 22, 1908; August 12, 1910 (4633 Ro, 8994 K & R)  
 130. *Hypena rostralis* (Linnaeus, 1758): Cîsnădioara August 21, 1908 (4634 Ro, 8995 K & R)  
 131. *Hypena crassalis* (Fabricius 1787): Măgura Cîsnădiei July 14, 1908 (2 ex.) (4636 Ro, 9002 K & R)  
 132. *Abrostola triplasia* (Linnaeus, 1758): Cîsnădioara August 5, 1907; August 6, 1907 (4692 Ro, 9093 K & R)  
 133. *Amphipyra berbera* Rungs, 1949: Cîsnădioara August 7, 1907 (4804 Ro, 9308 K & R)  
 134. *Amphipyra tragopoginis* (Clerck, 1759): Cîsnădioara July 29, 1907 (4807 Ro, 9311 K & R)  
 135. *Paradrina clavipalpis* (Scopoli, 1763): Cîsnădioara July 31, 1907; August 11, 1907; August 28, 1908 (4865 Ro, 9433 K & R)  
 136. *Hoplodrina blanda* ([Denis & Schiffermüller], 1775): Cîsnădioara July 30, 1907; August 10, 1910; August 12, 1910 (4871 Ro, 9450 K & R)  
 137. *Mormo maura* (Linnaeus, 1758): Cîsnădioara July 20, 1905 (4896 Ro, 9501 K & R)  
 138. *Trachea atriplicis* (Linnaeus, 1758): Cîsnădioara August 26, 1907 (4905 Ro, 9490 K & R)  
 139. *Phlogophora meticulosa* (Linnaeus, 1758): Cîsnădioara August 12, 1910 (4909 Ro, 9505 K & R)  
 140. *Actinotia polyodon* (Clerck, 1759): Cîsnădioara July 29, 1907 (4916 Ro, 9515 K & R)  
 141. *Chloantha hyperici* ([Denis & Schiffermüller], 1775): Cîsnădioara August 10, 1907 (4919 Ro, 9518 K & R)  
 142. *Ipimorpha retusa* (Linnaeus, 1761): Cîsnădioara August 10, 1907 (4928 Ro, 9527 K & R)  
 143. *Cosmia pyralina* ([Denis & Schiffermüller], 1775): Cîsnădioara July 6, 1905 (4945 Ro, 9549 K & R)  
 144. *Apamea monoglyphica* (Hufnagel, 1766): Cîsnădioara July 9, 1905; August 21, 1905; July 15, 1907 (2 ex.); July 17, 1907 (2 ex.); July 23, 1907 (4948 Ro, 9748 K & R)  
 145. *Mesapamea secalis* (Linnaeus, 1758): Cîsnădioara August 6, 1907 (4980 Ro, 9789 K & R)  
 146. *Archantara dissoluta* (Treitschke, 1825): Cîsnădioara August 11, 1907 (5023 Ro, 9866 K & R)  
 147. *Dianobia contigua* ([Denis & Schiffermüller], 1775): Cîsnădioara July 19, 1908 (5061 Ro, 9919 K & R)  
 148. *Mamestra brassicae* (Linnaeus, 1758): Cîsnădioara August 7, 1907 (5080 Ro, 9987 K & R)  
 149. *Tholera decimalis* (Poda, 1761): Cîsnădioara August 26, 1907 (5128 Ro, 10065 K & R)  
 150. *Lithophane ornitopus ornitopus* (Hufnagel, 1766): Cîsnădioara April 15, 1904 (2 ex.) (5233 Ro, 9660 K & R)  
 151. *Polymixis polymita* (Linnaeus, 1761): Cîsnădioara August 11, 1907 (5278 Ro, 9720 K & R)

## 8. Family NOCTUIDAE

152. *Ochropleura plecta* (Linnaeus, 1761): Cîsnădioara August 18, 1907 (5304 Ro, 10086 K & R)  
 153. *Noctua pronuba* (Linnaeus, 1758): Cîsnădioara August 26, 1907 (5313 Ro, 10096 K & R)  
 154. *Spaelotis ravida* ([Denis & Schiffermüller], 1775): Cîsnădioara July 6, 1905 (5349 Ro, 10163 K & R)

155. *Eugraphe sigma* ([Denis & Schiffermüller], 1775): Cîsnădioara July 6, 1905 (5374 Ro, 10218 K & R)  
 156. *Eugnorisma depuncta* (Linnaeus, 1761): Cîsnădioara August 21, 1908 (5357 Ro, 10178 K & R)  
 157. *Xestia c-nigrum* (Linnaeus, 1758): Cîsnădioara August 18, 1907 (5362 Ro, 10200 K & R)  
 158. *Euxoa nigricans* (Linnaeus, 1761): Cîsnădioara August 8, 1910; August 10, 1910 (5400 Ro, 10275 K & R)  
 159. *Agrotis segetum* ([Denis & Schiffermüller], 1775): Cîsnădioara August 18, 1907 (5427 Ro, 10351 K & R)

#### 9. Family NOLIDAE

160. *Nola cucullatella* (Linnaeus, 1758): Cîsnădioara July 14, 1907 (5477 Ro, 10427 K & R)

#### 10. Family ARCTIIDAE

161. *Miltochrista miniata* (Forster, 1771): Cîsnădioara August 10, 1910 (5505 Ro, 10475 K & R)  
 162. *Eilema palliatella* (Scopoli, 1763): Cîsnădioara August 21, 1907 (5522 Ro, 10494 K & R)  
 163. *Eilema lurideola* (Zincken, 1817): Cîsnădioara July 22, 1922 (5518 Ro, 10489 K & R)  
 164. *Spilosoma lubricipeda* (Linnaeus, 1758): Cîsnădioara August 7, 1910 (5559 Ro, 10567 K & R)  
 165. *Diaphora mendica* (Clerck, 1759): Cîsnădioara July 11, 1952 (5564 Ro, 10572 K & R)  
 166. *Euplagia quadripunctaria* (Poda, 1761): Cîsnădioara August 10, 1907; August 1, 1956 (5584 Ro, 10605 K & R)

### CONCLUSIONS

This list mentions 166 species belonging to 10 families of Lepidoptera which are found in the scientific collection of DR. Victor Weindel. All the described specimens were collected between 1904 and 1956 between April and October from Cîsnădioara, Catrina and surrounding areas, but also from Cîsnădie (Măgura Cîsnădiei). After analysing the presented data, most of the specimens were captured in 1907 from Cîsnădioara where Dr. V. Weindel carried out the most frequent movements for entomological material collection. Out of the 166 reported species, 88 species belong to the Geometridae family, representing 53.01% of the species collected, followed by 29 species of the Nymphalidae family, 17 species of the Lycaenidae family and 11 species of the Papilionidae family. The other six families are less represented by one species: Saturniidae, Drepanidae and Nolidae families, two species of the Lasiocampidae family, or a maximum of eight species, such as the Noctuidae family.

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