

**A PRELIMINARY LIST OF BEE SPECIES (HYMENOPTERA, APOIDEA) ON
THE TERRITORY OF ROZTOCHYA NATURE RESERVE (UKRAINE)**

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This paper presents a brief overview of bee species that occur on the territory of Roztochya Nature Reserve (mainly, the deciduous forest not far from the fish-breeding ponds near the Ivano-Frankove town and Zalyvky tract – forested area of the sphagnum bog) and its buffer zone (the territory around the fish-breeding ponds and the deciduous forest near the Lelekhivka village). Materials were collected during the vegetation period of 2015–2018. Also, we analyzed the entomological collection of the Zoological Museum of Lviv National University. During this research we collected 60 specimens of bees, which belong to 39 species, 16 genera (*Andrena*, *Anthophora*, *Apis*, *Bombus*, *Nomada*, *Tetralonia*, *Colletes*, *Hylaeus*, *Lasioglossum*, *Sphecodes*, *Systropha*, *Chelostoma*, *Megachile*, *Osmia*, *Dasygaster*, *Macropis*) and 6 families (Andrenidae – 10 species, Apidae – 15 species, Colletidae – 2 species, Halictidae – 6 species, Megachilidae – 4 species and Melittidae – 2 species). 28 of these species are first recorded for the fauna of Roztochya Nature Reserve. Also thirteen species from family Apidae (genus *Bombus*) were listed in the fauna of Roztochya Nature Reserve earlier by Iryna Konovalova [17], but we didn't collect them during our research. So, in general, a preliminary list of bee species on this territory includes 52 species of insects (including literature data and specimens from the entomological collection of the Museum). 42 species are listed in the “European Red List of bees” [10] in the category “Least Concern”, six species – in the category “Data Deficient”, two species – in the category “Vulnerable” (*Bombus muscorum* (Linnaeus, 1758) and *Bombus distinguendus* Morawitz, 1869) and two species – in the category “Near Threatened” (*Andrena ovatula* (Kirby, 1802) and *Systropha curvicornis* (Scopoli, 1770)). One species has a conservation status “Rare” in the Red Data Book of Ukraine (*Bombus muscorum* (Linnaeus, 1758)) [16]. Such research should be continued and deepened in the nearest future.

Collected specimens are housed at the Zoological Museum of Lviv National University collection (ZMD).

Keywords: bees, Apoidea, Hymenoptera, Roztochya Nature Reserve, Ukraine

Bees are one of the most important pollinators of many kinds of bushes, small trees, and herbaceous plants, including many wild flowers and cultivated plants. Conservation of many habitats thus depends upon preservation of bee populations, for if the bees disappear, reproduction of major elements of the flora may be severely limited [9].

Roztochya Nature Reserve is a part of the same physical and geographic area. Roztochya is a hilly ridge with a height difference of 203–403 meters above sea level and is located on the main European watershed. Natural complexes of Roztochya were formed under influence of adjacent botanic-geographical regions – Polissya, Podillya and Carpathians. A neighbourhood of floristically different regions gave rise to species in the region which are on the edge of their

natural distribution or to those species located in a separate fragment of an area under disjunction distribution.

Objects and Methods

The objects of our research were bees (Hymenoptera, Apoidea) that occur on the territory of Roztochya Nature Reserve and its buffer zone. We collected insects during warm period of 2015–2018. Also, we analyzed the entomological collection of the ZMD.

For bee identification we have used few different keys to species [1–8, 11–15, 18] and the classification of bees follows Ch. D. Michener [9]. Information about IUCN Red List Categories – from “European Red List of bees” [10].

Localities of the research

The part of the territory of the Roztochya Nature Reserve: the deciduous forest not far from the fish-breeding ponds near the Ivano-Frankove town; Zalyvky tract – forested area of the sphagnum bog.

Buffer zone of the Reserve: the territory around the fish-breeding ponds and the deciduous forest near the Lelekhivka village.

Results and Discussion

During our research we collected 60 specimens of bees which belong to 39 species, 16 genera and 6 families (Apidae, Andrenidae, Colletidae, Halictidae, Megachilidae and Melittidae). 28 of these species are first recorded for the Roztochya Nature Reserve.

Family Andrenidae

1. *Andrena barbilabris* (Kirby, 1802).

Material examined: outskirts of the Lelekhivka village: 1♂, IV.2017. Distribution: Holarctic. Remarks: IUCN Red List Category – Data Deficient (DD); this is the first record of the species for the RNR.

2. *Andrena bicolor* Fabricius, 1775.

Material examined: outskirts of the Lelekhivka village: 1♀, IV.2017. Distribution: Holarctic. Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

3. *Andrena dorsata* (Kirby, 1802).

Material examined: outskirts of the Lelekhivka village: 1♀, IV.2017. Distribution: Palearctic. Remarks: IUCN Red List Category – Data Deficient (DD); first recorded.

4. *Andrena haemorrhoa* (Fabricius, 1781).

Material examined: outskirts of the Ivano-Frankove town (near the ponds): 1♀, VI.2016; outskirts of the Lelekhivka village: 1♂, IV.2017. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

5. *Andrena helvola* (Linnaeus, 1758).

Material examined: outskirts of the Lelekhivka village: 1♀, VI.2017. Distribution: Palearctic. Remarks: IUCN Red List Category – Data Deficient (DD); first recorded.

6. *Andrena lepida* Schenck, 1861.

Material examined: outskirts of the Lelekhivka village: 1♀, VII.2016. Distribution: Palearctic. Remarks: IUCN Red List Category – Data Deficient (DD); first recorded.

7. *Andrena nitida* (Müller, 1776).

Material examined: outskirts of the Ivano-Frankove town (near the ponds): 1♂, V.2018. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

8. *Andrena nycthemera* Imhoff, 1868.

Material examined: outskirts of the Lelekhivka village: 1♀, 1♂, IV.2017. Distribution: Palearctic. Remarks: IUCN Red List Category – Data Deficient (DD); first recorded.

9. *Andrena ovatula* (Kirby, 1802).

Material examined: outskirts of the Lelekhivka village: 2♀, VII.2016. Distribution: Palearctic. Remarks: IUCN Red List Category – Near Threatened (NT); first recorded.

10. *Andrena vaga* Panzer, 1799.

Material examined: outskirts of the Lelekhivka village: 2♀, 1♂, IV.2017. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

Family Apidae**11. *Anthophora plumipes* (Pallas, 1772).**

Material examined: outskirts of the Lelekhivka village: 2♀, VII.2017; outskirts of the Ivano-Frankove town (near the ponds): 1♂, IV.2018. Distribution: Palearctic (was introduced to the United States also). Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

12. *Apis mellifera* Linnaeus, 1758.

Material examined: numerous species in all areas of the RNR. Distribution: Palearctic. Remarks: IUCN Red List Category – Data Deficient (DD); species was recorded in the RNR by Reserve staff.

13. *Bombus hortorum* (Linnaeus, 1761).

Material examined: outskirts of the Lelekhivka village: 2♂, VI.2017; 2♂, VIII.2017. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); species was recorded in the RNR formerly by I. Konovalova [17].

14. *Bombus hypnorum* (Linnaeus, 1758).

Material examined: outskirts of the Stradch village: 2♂, VI.2017; outskirts of the Ivano-Frankove town (near the ponds): 1♂, V.2018. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); species was recorded in the RNR formerly by I. Konovalova [17].

15. *Bombus lapidarius* (Linnaeus, 1758).

Material examined: numerous species in all areas of the RNR. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); species was recorded in the RNR formerly by I. Konovalova [17].

16. *Bombus lucorum* (Linnaeus, 1761).

Material examined: numerous species in all areas of the RNR. Distribution: Palearctic, Oriental, Arctic and western Nearctic regions. Remarks: IUCN Red List Category – Least Concern (LC); species was recorded in the RNR formerly by I. Konovalova [17].

17. *Bombus muscorum* (Linnaeus, 1758).

Material examined: outskirts of the Ivano-Frankove town (Stradch forestry): 1♂, VII.2004; Zalyvky tract: 2♀, V.2016; outskirts of the Lelekhivka village: 1♂, VII.2018. Distribution: Palearctic. Remarks: IUCN Red List Category – Vulnerable (VU); conservation status in the Red Data Book of Ukraine – “Rare” [16]; species was recorded in the RNR formerly by I. Konovalova [17].

18. *Bombus pascuorum* (Scopoli, 1763).

Material examined: numerous species in all areas of the RNR. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); species was recorded in the RNR formerly by I. Konovalova [17].

19. *Bombus pratorum* (Linnaeus, 1761).

Material examined: outskirts of the Ivano-Frankove town: 1♀, VI.2016; outskirts of the Lelekhivka village: 1♂, IV.2017. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); species was recorded in the RNR formerly by I. Konovalova [17].

20. *Bombus ruderarius* (Müller, 1776).

Material examined: numerous species in all areas of the RNR. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); species was recorded in the RNR formerly by I. Konovalova [17].

21. *Bombus sylvorum* (Linnaeus, 1761).

Material examined: numerous species in all areas of the RNR. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); species was recorded in the RNR formerly by I. Konovalova [17].

22. *Bombus terrestris* (Linnaeus, 1758).

Material examined: numerous species in all areas of the RNR. Distribution: Palearctic; was introduced to Australasia, New Zealand and South America. Remarks: IUCN Red List Category – Least Concern (LC); species was recorded in the RNR formerly by I. Konovalova [17].

23. *Nomada lathburiana* (Kirby, 1802).

Material examined: outskirts of the Ivano-Frankove town (near the ponds): 1♀, IV.2018. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

24. *Nomada zonata* Panzer, 1798.

Material examined: outskirts of the Ivano-Frankove town (near the ponds): 1♀, IV.2018. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

25. *Tetralonia malvae* (Rossi, 1790).

Material examined: outskirts of the Lelekhivka village: 1♀, VII.2016. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

Family Colletidae**26. *Colletes cunicularius* (Linnaeus, 1761).**

Material examined: outskirts of the Lelekhivka village: 2♀, IV.2017; outskirts of the Ivano-Frankove town (near the ponds): 2♀, 2♂, IV.2018. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

27. *Hylaeus confusus* Nylander, 1852.

Material examined: outskirts of the Ivano-Frankove town (near the ponds): 2♂, VI.2016. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

Family Halictidae**28. *Lasioglossum albipes* (Fabricius, 1781).**

Material examined: outskirts of the Ivano-Frankove town (near the ponds): 2♀, V.2018. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

29. *Lasioglossum (Evyllaes) politum* (Schenck, 1853).

Material examined: outskirts of the Ivano-Frankove town (on the edge of the forest): 1♀, IX.2017. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

30. *Lasioglossum zonulum* (Smith, 1848).

Material examined: outskirts of the Ivano-Frankove town (near the ponds): 1♀, VII.2016. Distribution: Holarctic. Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

31. *Sphecodes albilabris* (Fabricius, 1793).

Material examined: outskirts of the Ivano-Frankove town (near the ponds): 1♀, IV.2016. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

32. *Sphecodes monilicornis* (Kirby, 1802).

Material examined: outskirts of the Ivano-Frankove town (near the ponds): 1♀, IV.2016. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

33. *Systropha curvicornis* (Scopoli, 1770).

Material examined: outskirts of the Lelekhivka village: 2♀, 2♂, VII.2017. Distribution: Palearctic. Remarks: IUCN Red List Category – Near Threatened (NT); first recorded.

Family Megachilidae**34. *Chelostoma florissomne* (Linnaeus, 1758).**

Material examined: outskirts of the Ivano-Frankove town (near the ponds): 1♂, V.2018. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

35. *Megachile centuncularis* (Linnaeus, 1758).

Material examined: outskirts of the Lelekhivka village: 1♀, VII.2016. Distribution: Holarctic. Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

36. *Megachile circumcincta* (Kirby, 1802).

Material examined: outskirts of the Ivano-Frankove town (on the edge of the forest): 1♂, VI.2016. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

37. *Osmia bicornis* (Linnaeus, 1758).

Material examined: outskirts of the Lelekhivka village: 1♂, IV.2017. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

Family Melittidae**38. *Dasygoda hirtipes* (Fabricius, 1793).**

Material examined: outskirts of the Lelekhivka village: 1♂, VII.2017; outskirts of the Ivano-Frankove town (near the ponds): 1♂, VIII.2017. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

39. *Macropis europaea* Warncke, 1973.

Material examined: outskirts of the Lelekhivka village: 1♀, 3♂ VII.2017. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC); first recorded.

Thirteen species from family Apidae were listed in the fauna of RNR earlier by I. Konovalova [17], but we didn't collect them during our research:

1. *Bombus barbutellus* (Kirby, 1802). Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC).

2. *Bombus bohemicus* (Seidl, 1837). Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC).

3. *Bombus campestris* (Panzer, 1801). Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC).

4. *Bombus distinguendus* Morawitz, 1869. Distribution: Palearctic. Remarks: IUCN Red List Category – Vulnerable (VU).

5. *Bombus jonellus* (Kirby, 1802). Distribution: Holarctic. Remarks: IUCN Red List Category – Least Concern (LC).

6. *Bombus norvegicus* Sparre-Schneider, 1918. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC).

7. *Bombus rupestris* (Fabricius, 1793). Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC).

8. *Bombus semenoviellus* Skorikov, 1910. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC).

9. *Bombus soroensis* (Fabricius, 1777). Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC).

10. *Bombus subterraneus* (Linnaeus, 1758). Distribution: Palearctic (it has been introduced to New Zealand). Remarks: IUCN Red List Category – Least Concern (LC).

11. *Bombus sylvestris* (Le Peletier, 1832). Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC).

12. *Bombus vestalis* Geoffroy, 1785. Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC).

13. *Bombus veteranus* (Fabricius, 1793). Distribution: Palearctic. Remarks: IUCN Red List Category – Least Concern (LC).

The analysis of our collection of bees, the entomological collection of the Zoological Museum of Lviv National University and the literature data enables to draw a preliminary conclusion about the species composition of the bee fauna of the Roztochya Nature Reserve. In general, a preliminary list of bee species (Hymenoptera, Apoidea) on the territory of Roztochya Nature Reserve includes 52 species, 28 of which are first recorded for the RNR (39 species, collected during our research and 13 species that were listed in the fauna of RNR earlier, but we didn't collect them). 42 species are listed in the "European Red List of bees" [10] in the category "Least Concern", 6 species – in the category "Data Deficient", 2 species – in the category "Vulnerable" and 2 species – in the category "Near Threatened". One species has a conservation status "Rare" in the Red Data Book of Ukraine [16].

Such research should be continued and deepened in the nearest future.

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**ПОПЕРЕДНІЙ СПИСОК БДЖОЛИНИХ (HYMENOPTERA, APOIDEA)
ПРИРОДНОГО ЗАПОВІДНИКА “РОЗТОЧЧЯ” (УКРАЇНА)****І. Тимків^{1*}, С. Питель¹, Г. Стрянець²**¹Львівський національний університет імені Івана Франка
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У публікації подано короткий огляд видів бджолиних, зібраних на території природного заповідника “Розточчя” (переважно мішаний ліс недалеко від ріборозплідних ставів на околицях смт Івано-Франкове й урочище Заливки – заліснена ділянка сфагнового болота) і його буферної зони (територія навколо ріборозплідних ставів та мішаний ліс на околицях с. Лелехівка). Матеріал збирали протягом вегетаційного періоду 2015–2018 років. Також аналізували ентомологічні колекції Зоологічного музею. Упродовж досліджень зібрано 60 екземплярів бджолиних, котрі належать до 39 видів, 16 родів (*Andrena*, *Anthophora*, *Apis*, *Bombus*, *Nomada*, *Tetralonia*, *Colletes*, *Hylaeus*, *Lasioglossum*, *Sphexodes*, *Systropha*, *Chelostoma*, *Megachile*, *Osmia*, *Dasypoda*, *Macropis*) і 6 родин (Andrenidae – 10 видів, Apidae – 15 видів, Colletidae – 2 види, Halictidae – 6 видів, Megachilidae – 4 види та Melittidae – 2 види). Із них – 28 видів зареєстровані для заповідника вперше. Ще 13 видів із родини Apidae (рід *Bombus*) були зареєстровані для фауни заповідника раніше І. Коноваловою [17], проте у наших зборах вони не траплялися. Тож загальний попередній список бджолиних на території природного заповідника “Розточчя” включає 52 види (враховуючи також літературні дані й екземпляри з ентомологічної колекції Музею). 42 види комах числяться в “Європейському червоному списку бджіл” [10] у категорії “Least Concern” (“Найменший ризик”), шість видів – у категорії “Data Deficient” (“Недостатньо інформації”), два види – в категорії “Вразливі” (“Vulnerable”) (*Bombus muscorum* (Linnaeus, 1758) і *Bombus distinguendus* Morawitz, 1869) і два види – в категорії “Близькі до загрозливого стану” (“Near Threatened”) (*Andrena ovatula* (Kirby, 1802) та *Systropha curvicornis* (Scopoli, 1770)). Один вид (*Bombus muscorum* (Linnaeus, 1758) занесений до Червоної книги України під статусом “Рідкісний” [16]. Такі дослідження будуть продовжені та поглиблені у майбутньому.

Зібраний матеріал зберігається у Зоологічному музеї Львівського національного університету імені Івана Франка (ЗМД).

Ключові слова: бджолині, Apoidea, Hymenoptera, природний заповідник “Розточчя”, Україна