

## WILD ROSES OF THE MEDOBORY NATURE RESERVE AND ITS PROTECTION ZONE (PODOLIAN HILLS, WESTERN UKRAINE)

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The present paper discusses the wild roses of the Medobory Nature Reserve and its protection zone (Podolian Hills, Western Ukraine). The study was carried out in the years 2008–2009. The purpose of the work was to compile a full, up-to-date list of the *Rosa* taxa growing in the Medobory Nature Reserve. Thirteen indigenous species, four hybrids, and one escaped from the breeding species were determined, and some of them are illustrated. Four species, *Rosa glabrifolia*, *R. gorenkensis*, *R. x subcanina*, *R. x subcollina* and one spontaneous hybrid *Rosa canina* L. x *Rosa rubiginosa* L. were recorded for the first time from this area.

*Key words:* *Rosa*, *Rosaceae*, flora, distribution, Medobory Nature Reserve, Ukraine.

### Introduction

The genus *Rosa* L. is a critical taxon that presents great difficulties of a taxonomical character. Difficulties in distinguishing individual species of roses arise from large variability of features within particular taxa, mainly caused by hybridization and polyploidy [4, 5].

The studies on the occurrence of plant species in the Nature Reserve date back to the 19th century. The first floristic material was reported from the area of the Medobory by Rehman [7], Śleńdziński [11], Błocki [1], and Szafer [10]. Five species of the *Rosa* genera were listed in these articles. They were: *Rosa rubiginosa* L., *R. turbinata* Aiton., *R. therebintiaca* Bess. (= *R. tomentosa* Sm.), *R. pomifera* Herrm. (= *R. villosa* L.), and *R. gypsicola* Błocki (= *R. canina* L.). In 2002, Oliyar wrote a work entitled *Konspekt flori природного заповідника „Medodori”* [3] which contained a description of eighteen rose species, but most of them were determined incorrectly.

During field researches carried out in July 2008, roses growing in the Nature Reserve herbarium were reviewed and reidentified [8, 9]. It was the first detailed description of the Medodory genus *Rosa* species distribution based on the field study.

The aim of this paper was to present a full list of roses of the Medobory Nature Reserve and its protection zone and determine their distribution in this area.

### Materials and methods

Floristic studies were conducted in the Medobory Nature Reserve and its protection zone in the years 2008–2009 (Fig. 1). The list of species is based on the observations made by the author, relevant data from publications, and the herbarium of the Nature Reserve. The herbarium materials containing documentary evidence (about 400 sheets) are to be found in the Herbarium of the Ojców National Park and the Herbarium of the Medobory Nature Reserve. Species names and the taxonomic nomenclature follows Henker [2], Popek [5, 6], and Zieliński [12, 13].

### Results

Species are arranged in a systematic order according to Popek [5]. Names of stands (villages or topographic points), characteristics of habitats, names of collectors and collecting data were given for each species. Illustrations of the most important diagnostic features for selected species were inserted.

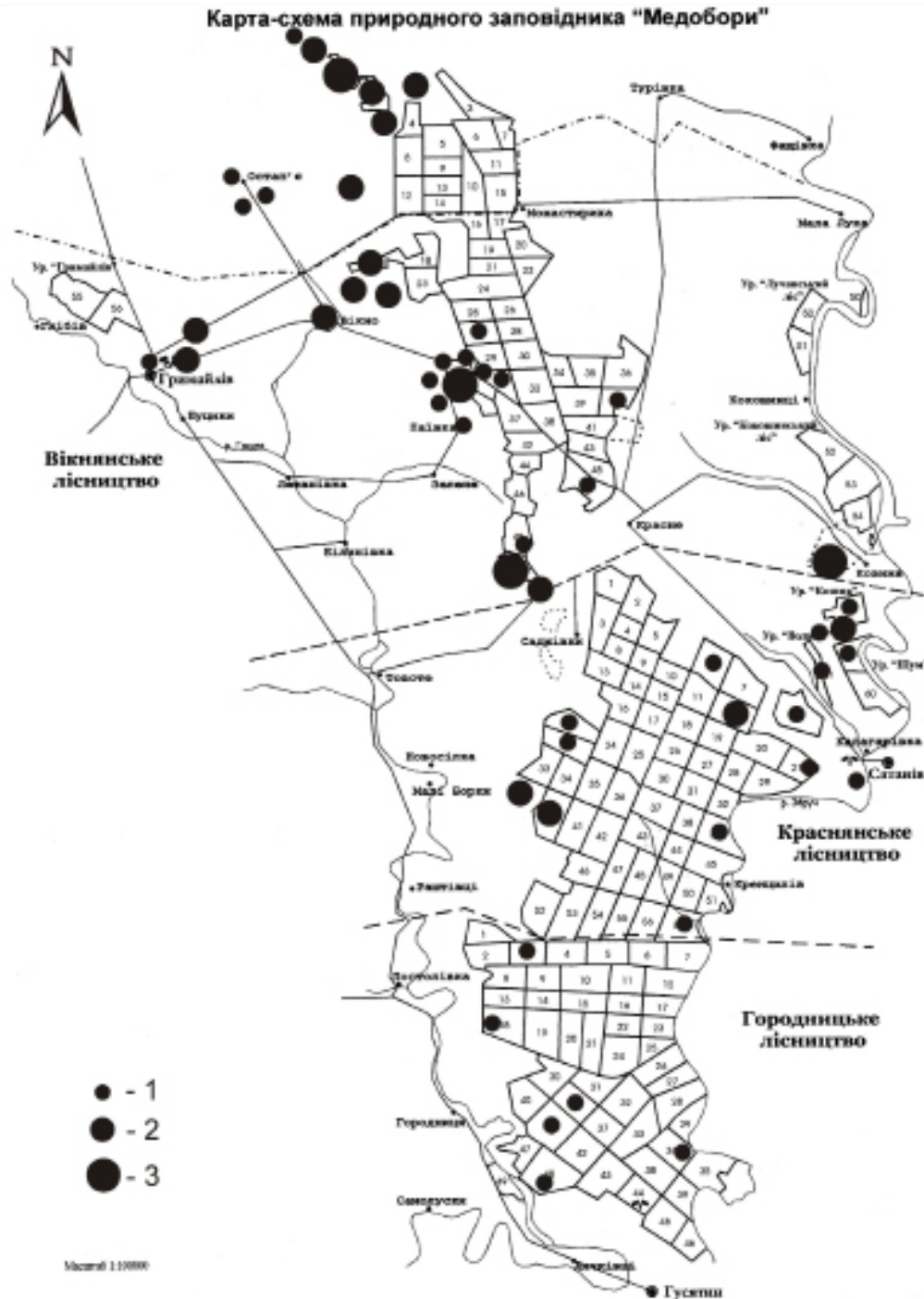


Fig. 1. Research stands and numbers of recorded roses in the "Medobory" Natural Reserve and its protection zone (with the exception of the Maslâtin enclave). 1: 1 – 3 species, 2: 4 – 6 species, 3: > 6 species.

Abbreviations of collector names: *Dzi.* = S. E. Dziaba, *Kag.* = O. Kagalo, *Kap.* = A. I. Kapeliuh, *Koz.* = Ł. A. Kozira, *Oli.* = H. I. Oliyar, *Pron.* = A. M. Proniuk, *Sem.* = O. W. Semenovich, *L. Sic.* = N. Sichak, *S-L* = A. Softys-Lelek, *St.* = Ł. R. Storozhuk, *Stor.* = S. A. Storozhuk.

Besides, the following abbreviations were used in the paper:

\* – anthropophyte, lg. – *legit*, n – species new for the flora of the Medobory, no. – number, obs. – observation, E – East, N – North, NE – North-Eastern, NW – North-Western, S – South, sq. – square.

Herbariums:

HMR – Herbarium of the Medobory Nature Reserve

OPN – Herbarium of the Ojców National Park

Sect. *Pimpinellifoliae* DC.

**1. *Rosa spinosissima* L. var. *spinosissima* (L.) W.D.J. Koch**

Synon.: *R. pimpinellifolia* L.

**3 stands:** 1<sup>th</sup> Horodnic'ka Tovtra hill, steppe, lg. *Oli.*, 31.08.2000, 12.06.2003 (HMR), lg. *S-L*, 10.07.2008 (OPN); 2<sup>nd</sup> Horodnic'ka Tovtra hill, steppe, lg. *Oli.*, 31.08.2000, 12.06.2003 (HMR) obs. *S-L*, 10.07.2008; Horodnic'ke lisnictvo forestry, sq. no. 3, steppe, lg. *Oli.*, 08.06.1993, 07.07.1996 (HMR).

Sect. *Cinnamomeae* DC.

**2. *Rosa majalis* Herrm. var. *majalis***

Synon.: *R. cinnamomea* L. (Fig. 2).

**9 stands:** Krasnians'ke lisnictvo forestry, sq. no. 6, lg. *Dzi.*, 03.08.2000 (HMR), sq. no. 40, thicket, lg. *Dzi.*, 31.08.1999 (HMR); Kremeneč'ki Hori mountains (Masliatin enclave), thicket, lg. *Pron.*, 25.06.2005 (HMR); region of Mali Borki, thicket, obs. *S-L*, 04.08.2009; region of Paivka village, steppe, lg. *Sic.*, *Kag.* 25.05.1994 (HMR), Paivka village, steppe, sq. no. 32, lg. *S-L*, 31.07.2008 (OPN); region of Paivka village, to E of plantation, steppe, lg. *S-L*, 14.07.2008 (OPN); Viknians'ke lisnictvo forestry, plantation, sq. no. 31, lg. *Dzi.*, *Koz.*, sq. 18.08.1999 (HMR), lg. *S-L*, 14.07.2008 (OPN), sq. no. 54, lg. *S-L*, 31.07.2008 (OPN).

**3. *Rosa gorenkensis* Besser (n)**

**4 stands:** Krasnians'ke lisnictvo forestry, thicket, lg. *S-L*, 04.08.2009 (OPN); Kremeneč'ki Hori mountains (Masliatin enclave), thicket, lg. *Pron.*, 01.09.2002 (HMR); Paivka village, sq. no. 32, thicket, lg. *Oli.*, 14.07.2008 (HMR); Viknians'ke lisnictvo forestry, plantation, sq. no. 31, lg. *S-L*, 14.07.2008 (OPN).

**4. *Rosa glabrifolia* C. A. Mey ex Rupr. (n)**

**4 stands:** Krasnians'ke lisnictvo forestry, sq. no. 40/5, thicket, lg. *Dzi.*, 31.08.1999 (HMR), lg. *S-L*, 04.08.2009 (OPN); region of Mali Borki, thicket, obs. *S-L*, 04.08.2009; Viknians'ke lisnictvo forestry, plantation, sq. no. 31, lg. *Oli.*, 31.07.2008 (HMR), sq. no. 54, lg. ?, (HMR).

**5. \**Rosa rugosa* Thunb.**

**3 stands:** Dovha Hora mountain, steppe, lg. *Dzi.*, 18.08.1999 (HMR), lg. *S-L*, 13.07.2008 (OPN); Hrimajliv village, roadside, obs. *S-L*, 02.08.2009; Viknians'ke lisnictvo forestry, thicket, sq. no. 27, lg. *Oli.*, 07.08.1998 (HMR), steppe, lg. *Kap.*, 24.08.1999 (HMR).

Sect. *Caninae* DC. em. Christ.

**6. *Rosa glauca* Pourr.**

Syn.: *R. rubrifolia* Vill.

**var. *glauca***

**1 stand:** Kremeneč'ki Hori mountains (Masliatin enclave), thicket, lg. *Pron.*, 25.06.2005 (HMR).



Fig. 2. *Rosa majalis* Herrm. A: part of fruiting short shoot; B: sepals; C: part of long shoot; D: part of axis of leaf; E: stipule; F<sub>1</sub>, F<sub>2</sub>: fruit; G<sub>1</sub>: part of leaf (underside); G<sub>2</sub>: part of leaf (upper side). Scale: 1: A, B, C, D, F<sub>1</sub>, F<sub>2</sub>, G<sub>1</sub>, G<sub>2</sub>; 2: E. (Author: A. Soltys-Lelek).

**var. *glaucescens* (Wulfen) Popek**

**1 stand:** Hora Hostra mountain, steppe, lg. *Oli.*, 12.06.1992 (HMR).

It has not been confirmed for twenty years. It is probably extinct because of the forest succession into xerothermic grasslands.

**7. *Rosa dumalis* Bechst.**

**Synon.:** *R. afzeliana* Fr., *R. caesia* Sm., *R. coriifolia* Fr., *R. glauca* Vill. ex Loiseleur.

**var. *afzedliana* (Fr.) Boulenger.**

**21 stands:** 2<sup>nd</sup> Horodnic'ka Tovtra hill, steppe, obs. *S-L*, 10.07.2008; 3<sup>th</sup> Horodnic'ka Tovtra hill, steppe, obs. *S-L*, 10.07.2008, 05.08.2009; 5<sup>th</sup> Horodnic'ka Tovtra hill, steppe, obs. *S-L*, 05.08.2009; Hora Dovha mountain, steppe, obs. *S-L*, 13.07.2008; Hora Hostra mountain, lg.?, 19.11.1996 (HMR), slope, lg. *Kap.*, 19.08.1999 (HMR), steppe, lg. *Oli.*, 16.08.1999, 16.08.2000 (HMR), obs. *S-L*, 12.07.2008; Hrimajliv village, old cemetery, lg. *S-L*, 15.07.2008 (OPN); Hrimajliv village – centre, roadside, lg. *S-L*, 07.08.2009 (OPN); Kozina enclave, sq. 58/1, obs. *S-L*, 03.08.2009; Ostap'ie Rocks, steppe, lg. *S-L*, 07.08.2009 (OPN); Paivka village, thicket, obs. *S-L*, 12.07.2008; Paivka village, roadside near forester's lodge, obs. *S-L*, 14.07.2008; region of Mali Borki, thicket, obs. *S-L*, 04.08.2009; region of Ostap'ie country, roadside, lg. *Sic., Kag.*, 24.05.1994 (HMR); to E of Hora Hostra mountain, obs. *S-L*, 07.08.2009; to N of Vikno village, quarry, lg. *S-L*, 07.08.2009 (OPN); to NE of Hrimajliv village, roadside, obs. *S-L*, 07.08.2009; to NW of Vikno village, roadside, obs. *S-L*, 07.08.2009; to S of Ostap'ie village, rocks, obs. *S-L*, 07.08.2009; Vikno village, boundary of fields, obs. *S-L*, 12.07.2008; Volove N enclave, thicket, obs. *S-L*, 11.07.2008; Volove S enclave, thicket, obs. *S-L*, 11.07.2008.

**var. *dumalis* (Fig. 3)**

**23 stands:** 1<sup>th</sup>, 2<sup>nd</sup>, 3<sup>th</sup>, Horodnic'ka Tovtra hill, steppe, obs. *S-L*, 10.07.2008; 4<sup>th</sup>, 5<sup>th</sup>, Horodnic'ka Tovtra hill, steppe, lg. *S-L*, 05.08.2009 (OPN); Hora Dovha mountain, steppe, lg. *Koz.* 18.08.1999, obs. *S-L*, 13.07.2007 (HMR); Hora Hostra mountain, steppe, lg. ?, 9, 19.11.1996 (HMR), lg. *Oli.*, 19.08.1999 (HMR); Hora Hostra Mogila mountain, steppe, obs. *S-L*, 10.07.2008; Horodnic'ke Tovtry hills, steppe, lg. *Oli.*, 31.08.2000 (HMR); Krasnians'ke lisnictvo forestry, sq. no. 12, old military training ground, meadow, lg. *Oli.*, 26.08.2008 (HMR); Krasnians'ke lisnictvo forestry, sq. no. 40/5, thicket, lg. *Dzi.*, 31.08.1999 (HMR), obs. *S-L*, 04.08.2009; Ostap'ie Rocks, steppe, obs. *S-L*, 07.08.2009; Paivka village, roadside near forester's lodge, obs. *S-L*, 14.07.2008; region of Vikno village, lg.?, 16.11.1996 (HMR); Shum enclave, thicket, lg. *S-L*, 03.08.2009 (OPN); to N of Vikno village, thicket, obs. *S-L*, 07.08.2009; to E of Hora Hostra mountain, obs. *S-L*, 07.08.2009; to NE of Hrimajliv village, thicket, lg. *S-L*, 07.08.2009 (OPN); to NW of Vikno village, roadside, obs. *S-L*, 07.08.2009; Viknians'ke lisnictvo forestry, sq. no. 31/29, obs. *S-L*, 14.07.2008; Vikno village, thicket, obs. *S-L*, 14.07.2008; Volove N enclave, thicket, obs. *S-L*, 11.07.2008; Volove S enclave, thicket, obs. *S-L*, 11.07.2008.

**var. *acharii* (Billb.) Boulenger**

**1 stand:** Medobory Nature Reserve, lg.?, date ?, (OPN).

**var. *coriifolia* (Fr.) Boulenger**

**15 stands:** 4<sup>th</sup> Horodnic'ka Tovtra hill, steppe, lg. *S-L*, 05.08.2009 (HMR); Hora Hostra mountain, slope, lg.?, 19.11.1996 (HMR), steppe, lg. *Oli.*, 16.08.2000 (HMR); Kozina enclave, sq. no. 58/1, thicket, lg. *S-L*, 03.08.2009 (OPN); Krasnians'ke lisnictvo forestry, thicket, lg. *S-L*, 04.08.2009 (OPN); Krasnians'ke lisnictvo forestry, sq. no. 40, lg. *Dzi.*, sq. no. 40/5, thicket, lg. *Oli.*, 31.08.1999 (HMR), sq. no. 57/9, thicket, lg. *S-L*, 03.08.2009 (OPN); Kremenec'ki Hori mountains (Masliatin enclave), roadside, thicket, lg. *Pron.* 20.09.2000, 2001, 30.09.2001 (HMR),



Fig. 3. *Rosa dumalis* Bechst. var. *dumalis*. A: part of fruiting short shoot; B: part of long shoot; C: part of axis of leaf; D: stipule; E<sub>1</sub>, E<sub>2</sub>: fruit; F: part of leaf (underside). Scale; 1: D, F; 2: A, B, C, E<sub>1</sub>, E<sub>2</sub>. (Author: A. Soltys-Lelek).

sq. no. 12, 12.06.1999 (HMR); Shum enclave, sq. no. 60, lg. *Oli.*, 17.08.2005, 19.06.2006 (HMR), sq. no. 61, lg. *Oli.*, 17.08.2005 (HMR); thicket, lg. *S-L*, 03.08.2009 (OPN); to N of Shum enclave, thicket, lg. *S-L*, 03.08.2009 (OPN); to NE of Hrimajliv village, thicket, obs. *S-L*, 07.08.2009; Viknians'ke lisnictvo forestry, plantation, sq. no. 31, lg. *S-L*, 14.07.2008 (OPN); Vikno village, roadside, lg. *S-L*, 12.07.2008 (OPN).

**var. caesia (Sm.) Boulenger**

**1 stand:** Krasnians'ke lisnictvo forestry, sq. no. 12, old military training ground, meadow, lg. ?, 26.08.2008 (HMR).

**8. *R. villosa* L.**

Synon.: *Rosa pomifera* Hornem.

**1 stand:** Kachanovka village [7].

The species, recorded by Rehman [7] as *R. pomifera*, has not been confirmed since then. It is probably an extinct species.

**9. *Rosa sherardii* Davies**

Synon.: *R. scabrisculata* Heiner.

**var. sherardii (Fig. 4).**

**20 stands:** 1<sup>th</sup> Horodnic'ka Tovtra hill, steppe, lg. *S-L*, 10.07.2008 (OPN); Horodnic'ke lisnictvo forestry, thicket, lg. *Oli.*, 07.07.1996 (HMR), sq. no. 48/7, forest, lg. *Oli.*, 17.06.2001 (HMR), lg. *Stor.*, 24.08.1994 (HMR), sq. no. 41/17, 48/4, lg. *St.*, 15.09.2000 (HMR); Horodnic'ke Tovtry hills, steppe, lg. *Oli.*, 31.08.2000 (HMR); Hora Hostra mountain, lg. *Oli.*, 16.08.2000 (HMR) lg. *S-L*, 12.07.2008 (OPN); Hora Hostra Mohila mountain, steppe, obs. *S-L*, 10.07.2008; Krasnians'ke lisnictvo forestry, old military training ground, meadow, lg. *Oli.*, 17.08.2000, 26.08.2008 (HMR), sq. no. 12., meadow, lg. *S-L*, 04.08.2009 (OPN), sq. no. 22, forest, lg. *S-L*, 11.07.2008 (OPN); Ostap'ie Rocks, steppe, quarry, lg. *S-L*, 07.08.2009 (OPN); region of Paivka village, steppe, lg. *Kag.*, *Sic.*, ?10.1995 (HMR); Kremenec'ki Hori mountains (Masliatin enclave), hilltop, lg. *Pron.* 01.06.2001 (HMR), lg. *Oli.*, 18.06.2008 (HMR); to N of Vikno village, quarry, lg. *S-L*, 07.08.2009 (OPN); to NE of Hrimajliv village, roadside, lg. *S-L*, 07.08.2009 (OPN); to NW of Vikno village, thicket, obs. *S-L*, 07.08.2009; Viknians'ke lisnictvo forestry, plantation, thicket, sq. no. 31, lg. *S-L*, 14.08.2009 (OPN); Vikno, roadside, forest, lg. *S-L*, 12-13.08.2008 (OPN); Volove S enclave, thicket, lg. ?, 16.11.1996 (HMR), lg. *Koz.* 30.09.1999 (HMR), lg. *Oli.*, 26.06.2006 (HMR).

**var. collivaga (Cottet) Boulenger**

**2 stands:** Horodnic'ke lisnictvo forestry, sq. no. 34/19, forest, lg. *Oli.*, 21.05.2001 (HMR); sq. no. 36/7, thicket, lg. *St.*, 15.09.2000 (HMR).

**10. *Rosa tomentosa* Sm. var. *tomentosa***

Synon.: *R. mollissima* Willd. (Fig. 5)

**5 stands:** Horodnic'ke lisnictvo forestry, sq. no. 34, lg. *Oli.*, 21.05.2001 (HMR), sq. no. 48/5, thicket, lg. *St.*, 15.09.2000 (HMR); Shum enclave, sq. no. 59/3, thicket, lg. *S-L*, 03.08.2009 (OPN); to NE of Hrimajliv village, roadside, lg. *S-L*, 07.08.2009 (OPN); Volove S enclave, sq. no. 1, lg.?, (HMR), thicket, lg. *S-L*, 11.07.2008 (OPN).

**11. *Rosa rubiginosa* L.**

Syn.: *R. eglantheria* L., *R. volhynensis* Chrshan. (Fig. 6)

***Rosa rubiginosa* L.**

**8 stands:** Chaharnikovi Harosti, thicket, *Sic.*, *Kag.*, 25.05.1994 (HMR), Holica, lg. *Oli.*, 08.06.2000 (HMR); Horodnic'ke lisnictvo forestry, thicket, sq. no. 36, 41, lg. *Stor.*, 24.08.1999



Fig. 4. *Rosa sherardii* Davies var. *sherardii*. A: part of fruiting short shoot; B: part of long shoot; C: sepal; D: part of axis of leaf; E: stipule; F<sub>1</sub>, F<sub>2</sub>: fruit; G<sub>1</sub>: part of long shoot; part of leaf (underside); G<sub>2</sub>: part of leaf (upper side). Scale: 1: C, E, G<sub>1</sub>, G<sub>2</sub>; 2: D; 3: F<sub>1</sub>, F<sub>2</sub>; 4: A, B. (Author: A. Sołtys-Lelek).



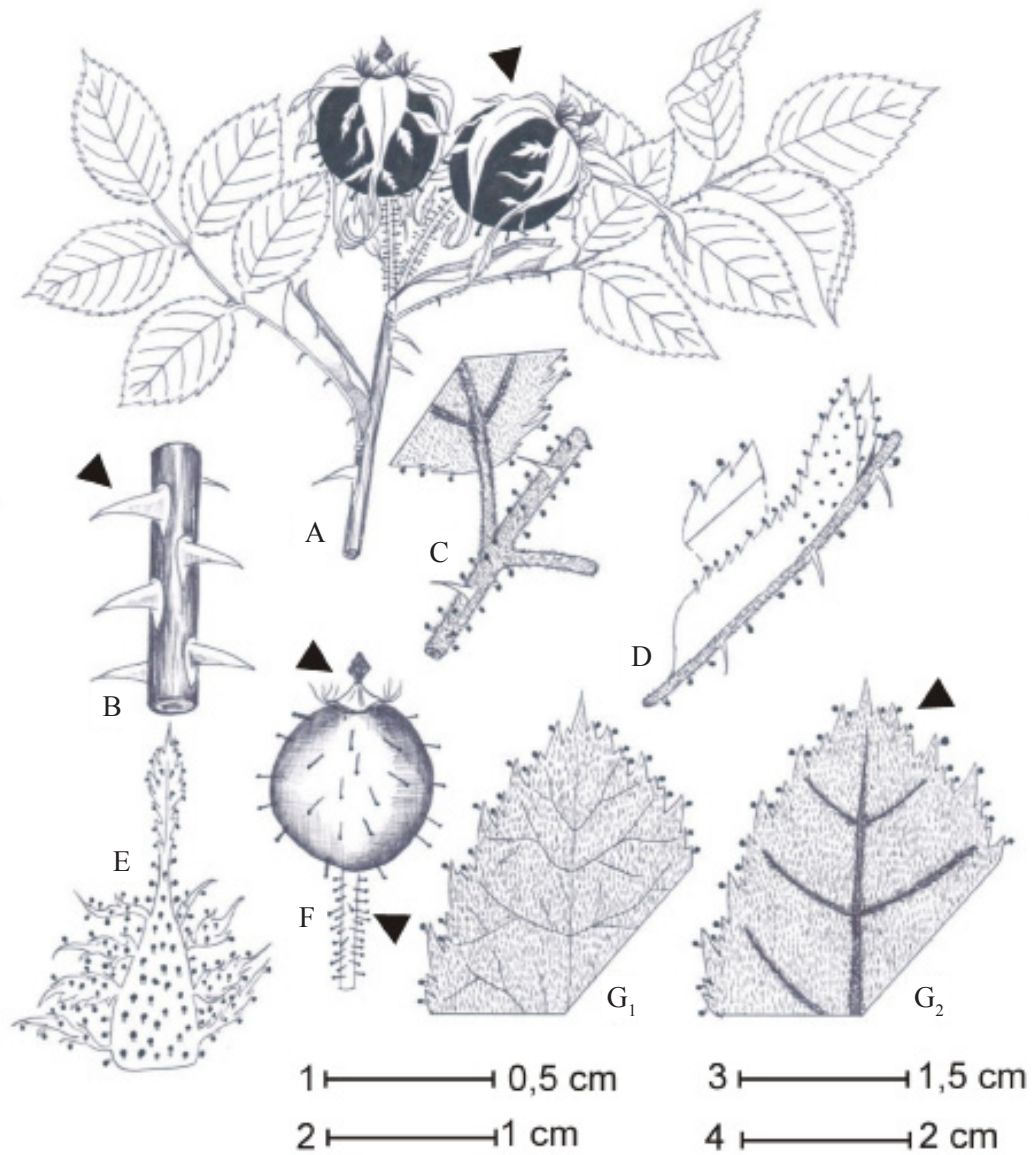


Fig. 5. *Rosa tomentosa* Sm. var. *tomentosa*. A: part of fruiting short shoot; B: part of long shoot; C: part of axis of leaf; D: stipule; E: sepal; F: fruit; G<sub>1</sub>: part of leaf (upper side); G<sub>2</sub>: part of long shoot; part of leaf (underside). Scale: 1: D, E, G<sub>1</sub>, G<sub>2</sub>; 2: C, F; 3: G<sub>2</sub>; 4: A, B. (Author: A. Sołtys-Lelek).

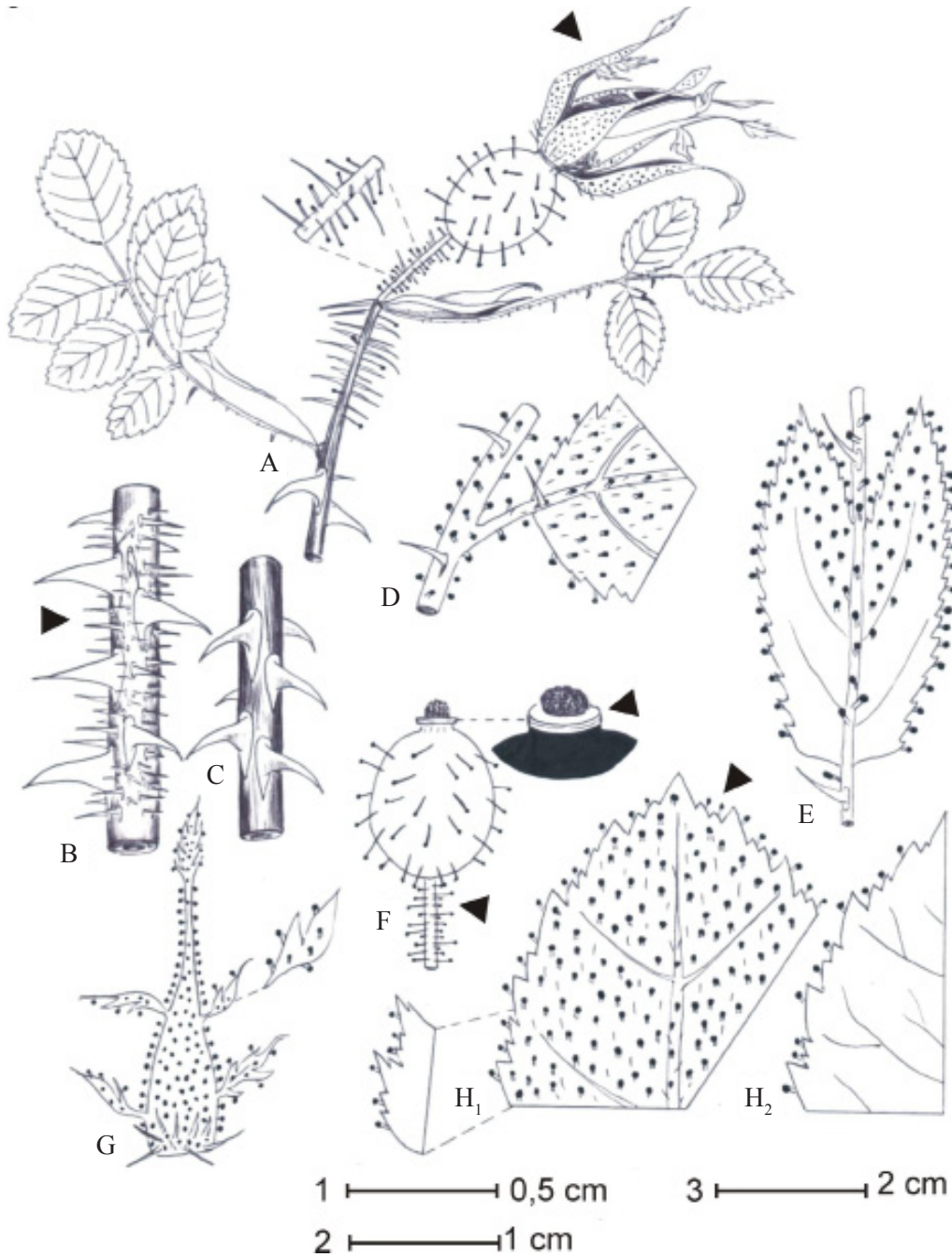


Fig. 6. *Rosa rubiginosa* L. A: part of fruiting short shoot; B, C: part of long shoot; D: part of axis of leaf; E: stipule; F: fruit; G: sepal; H<sub>1</sub>: part of long shoot; part of leaf (underside); H<sub>2</sub>: part of leaf (upper side). Scale: 1: E, G, H<sub>1</sub>, H<sub>2</sub>; 2: D; 3: A, B, C, F. (Author: A. Soltys-Lelek).

(HMR); Horodnic'ke Tovtry hills, steppe, lg. *Oli.*, 16.08.2000; Hora Hostra mountain, slope, lg. ?, 19.11.1996, steppe, lg. *Dzi.*, 18.08.1999; Viknians'ke lisnictvo forestry, plantation, sq. no. 31, lg. *Koz.*, 18.08.1999; Zabaliv, lg.?, 02.07.2008 (HMR).

**var. *rubiginosa***

**14 stands:** Horodnic'ke lisnictvo forestry, thicket, sq. no. 36/3, lg. *St.*, 12.09.2000 (HMR); Hora Dovha mountain, lg. *Koz.*, 18.08.1999 (HMR), obs. *S-L*, 12.07.2008; Hora Hostra mountain, steppe, thicket, lg.?, 19.11.1996 (HMR), lg. *Kap.* 19.08.1999 (HMR), *Koz.*, 19.08.1999 (HMR), lg. *Oli.* 16.08.2000 (HMR), lg. *S-L*, 12.07.2008 (OPN); Hora Hostra Mohila mountain, steppe, lg. *S-L*, 10.07.2008 (OPN); Ivan Frank's Rock mountain, lg.?, 11.11.1996 (HMR); Krasnians'ke lisnictvo forestry, sq. no. 12, old military training ground, meadow, lg. *Oli.*, 26.08.2008 (HMR); Paivka village, roadside near forester's lodge, obs. *S-L*, 14.07.2008; region of Hora Hostra mountain, boundary of fields, obs. *S-L*, 12.07.2008; to E of Hora Hostra mountain, roadside, obs. *S-L*, 07.08.2009; to N of Vikno village, thicket, obs. *S-L*, 07.08.2009; to NW of Vikno village, thicket, obs. *S-L*, 07.08.2009; Vikno village, thicket, obs. *S-L*, 13.07.2008; Volove N enclave, thicket, obs. *S-L*, 11.07.2008; Volove S enclave, thicket, lg. *Koz.*, 31.08.1999 (HMR), lg. *S-L*, 11.07.2008 (OPN).

**var. *umbellata* (Leers) Dumort.**

**13 stands:** 3<sup>th</sup> Horodnic'ka Tovtra hill, steppe, lg. *S-L*, 05.08.2009 (OPN); 4<sup>th</sup> Horodnic'ka Tovtra hill, steppe, lg. *S-L*, 05.08.2009 (HMR, OPN); 5<sup>th</sup> Horodnic'ka Tovtra hill, steppe, obs. *S-L*, 05.08.2009; Hora Dovha mountain, lg. *S-L*, 13.07.2008 (HMR, OPN); Hora Hostra mountain, steppe, lg. *Oli.*, 12.06.1992 (HMR), 16.08.2000 (HMR); lg.?, 14.11.1996 (HMR); Ostap'ie Rocks, steppe, obs. *S-L*, 07.08.2009; Paivka village, roadside near forester's lodge, obs. *S-L*, 14.07.2008; to E of Hora Hostra mountain, roadside, obs. *S-L*, 07.08.2009; to NW of Vikno village, thicket, obs. *S-L*, 07.08.2009; to S of Ostap'ie Rocks, steppe, obs. *S-L*, 07.08.2009; Viknians'ke lisnictvo forestry, plantation, sq. no. 31/29, obs. *S-L*, 14.07.2008; Volove N enclave, thicket, obs. *S-L*, 11.07.2008; Volove S enclave, steppe, thicket, lg. *Oli.*, 28.08.2000 (HMR), lg. *S-L*, 11.07.2008 (OPN).

**var. *jenensis* (M. Schulze) H. Christ**

**1 stand:** Hora Hostra mountain, steppe, lg. *Oli.*, 16.08.2000 (HMR).

**12. *Rosa micrantha* Borrer. ex. Sm. var. *micrantha***

**5 stands:** 1<sup>th</sup> Horodnic'ka Tovtra hill, steppe, lg. *Oli.*, *S-L*, 10.07.2008 (HMR, ONP); Hora Dovha mountain, lg. *S-L*, 13.07.2008 (OPN); Horodnic'ke lisnictvo forestry, thicket, sq. no. 18, thicket, lg. *Oli.*, 07.07.1996 (HMR); to N of Shum enclave, thicket, lg. *S-L*, 03.08.2009 (OPN); Viknians'ke lisnictvo forestry, plantation, sq. no. 31/29, lg. *Koz.*, 19.08.1999 (HMR), lg. *S-L*, 14.07.2008 (OPN).

**13. *Rosa canina* L.**

Syn.: *R. corymbifera*, *R. schmalhauseni* Chrshan., *R. slobodjanii* (Chrshan.) Dubovik.

**var. *canina* (Fig. 7)**

**14 stands:** Hora Dovha mountain, steppe, lg. *Koz.* 18.08.1999 (HMR); Hora Hostra mountain, steppe, obs. *S-L*, 12.07.2008; Horodnic'ke Tovtry hills, steppe, lg. *Oli.*, 31.08.2000 (HMR), lg. *S-L*, 10.07.2008 (OPN); Krasnians'ke lisnictvo forestry, sq. no. 21, lg. ?, 22.07.2008 (HMR); Krasnians'ke lisnictvo forestry, sq. no. 12, old military training ground, meadow, lg. *Oli.*, 26.08.2008 (HMR), lg. *S-L*, 04.08.2009 (OPN); Krasnians'ke lisnictvo forestry, sq. no. 22, obs. *S-L*, 11.07.2008; Ostap'ie Rocks, steppe, lg. *S-L*, 07.08.2009 (OPN); Paivka village, roadside near forester's lodge, obs. *S-L*, 14.07.2008; to N of Shum enclave, thicket, lg. *S-L*, 03.08.2009 (OPN); to N of Vikno, quarry, thicket, lg. *S-L*, 07.08.2009 (OPN); to SE of Sataniv village,

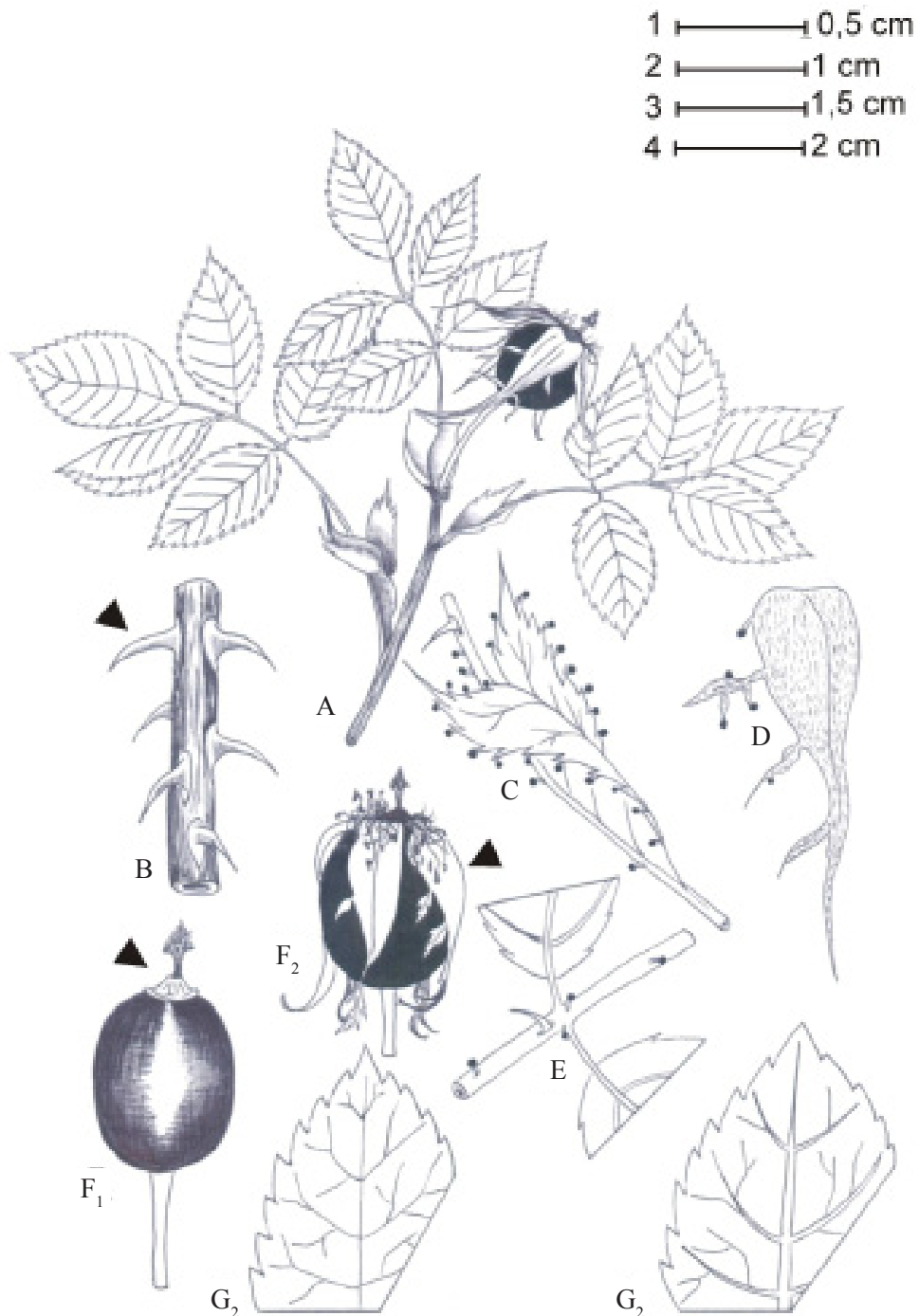


Fig. 7. *Rosa canina* L. var. *canina*. A: part of fruiting short shoot; B: part of long shoot; C: stipule; D: sepal; E: part of axis of leaf; F<sub>1</sub>, F<sub>2</sub>: fruit; G<sub>1</sub>: part of leaf (upper side); G<sub>2</sub>: part of leaf (underside). Scale: 1: D; 2: C, G<sub>1</sub>, G<sub>2</sub>; 3: F<sub>1</sub>, F<sub>2</sub>; 4: A, B, E. (Author: A. Soltys-Lelek).

steppe, lg. *S-L*, 04.08.2009 (OPN); Viknians'ke lisnictvo forestry, plantation, sq. no. 31/29, obs. *S-L*, 14.08.2008; Volove N enclave, thicket, obs. *S-L*, 11.07.2008; Volove S enclave, thicket, lg. *S-L*, 11.07.2008 (OPN).

**var. *andegavensis* (Bastard) Desp.**

**24 stands:** 1<sup>th</sup> Horodnic'ka Tovtra hill, sq. no. 1, 2, steppe, lg. *Oli.*, *S-L*, 31.08. 2000, 10.07.2008 (HMR, OPN); 2<sup>nd</sup> Horodnic'ka Tovtra hill, steppe, lg. *Oli.*, *S-L*, 31.08. 2000, 10.07.2008 (HMR, OPN); 3<sup>th</sup> Horodnic'ka Tovtra hill, sq. no. 1, 2, steppe, lg. *Oli.*, 31.08. 2000, 10.07.2008 (HMR), lg. *S-L*, 05.08.2009 (HMR, OPN); 4<sup>th</sup> Horodnic'ka Tovtra hill, steppe, obs. *S-L*, 05.08.2009; Hora Dovha mountain, lg. *S-L*, 13.07.2008 (OPN); Hora Hostra mountain, steppe, lg. *Oli.*, 16.08.2000 (HMR), lg. *S-L*, 12.07.2008 (OPN); Hora Hostra Mohila mountain, thicket, lg. *S-L*, 10.07.2008 (OPN); Krasnians'ke lisnictvo forestry, thicket, sq. no. 40, lg. *Kap.*, 31.08.1999 (HMR), sq. no. 21, lg. *S-L*, 04.08.2009 (OPN); Paivka village part N, roadside, thicket, lg. *S-L*, 12.07.2008 (OPN); Paivka village, roadside near forester's lodge, lg. *S-L*, 14.07.2008 (OPN); region of Mali Borki, thicket, obs. *S-L*, 04.08.2009; to E of Hora Hostra mountain, roadside, obs. *S-L*, 07.08.2009; to N of Shum enclave, thicket, lg. *S-L*, 03.08.2009 (OPN); to NE of Hrimajliv village, roadside, lg. *S-L*, 07.08.2009 (OPN); to NE of Shum enclave, fallow, lg. *S-L*, 03.08.2009 (OPN); to S of Ostap'ie village, rocks, obs. *S-L*, 07.08.2009; Viknians'ke lisnictvo forestry, plantation, sq. no. 31/29, lg. *Koz.*, 18.08.1999 (HMR), obs. *S-L*, 14.07.2008; Viknians'ke lisnictvo forestry, thicket, sq. no. 31/30, lg. *Koz.*, 18.08.1999 (HMR); Vikno village, roadside, steppe, lg. *S-L*, 12, 15.08.2008 (OPN); Volove N enclave, thicket, obs. *S-L*, 11.07.2008; Volove S enclave, steppe, lg. *Oli.*, 28.09.2000 (HMR), lg. *S-L*, 11.07.2008 (OPN).

**var. *dumalis* Baker**

**33 stands:** 1<sup>th</sup> Horodnic'ka Tovtra hill, steppe, lg. *Oli.*, 31.08. 2000 (HMR), obs. *S-L.*, 10.07. 2008; 2<sup>nd</sup> Horodnic'ka Tovtra hill, steppe, obs. *S-L.*, 10.07. 2008; 3<sup>th</sup> Horodnic'ka Tovtra hill, steppe, lg. *S-L.*, 05.08.2009 (OPN); 4<sup>th</sup> Horodnic'ka Tovtra hill, steppe, lg. *S-L*, 05.08.2009 (OPN); Hora Hostra Mohila mountain, calcareous rock, steppe, lg. *Oli.*, 24.06.1996 (HMR), 24.08.1996 (HMR), 12.06.1998 (HMR), obs. *S-L.*, 10.07.2008; Hora Hostra mountain, steppe, slope, lg. *Sem.*, 03.06.1994 (HMR), lg.?, 19.11.1996 (HMR), lg. *Oli.*, 16.08.2000 (HMR), lg.?, 9.21.11.1996 (HMR); Hrimajliv village, roadside, obs. *S-L.*, 02.08.2009; Krasnians'ke lisnictvo forestry, thicket, lg. *S-L.*, 04.08.2009 (OPN); Krasnians'ke lisnictvo forestry, sq. no. 21, lg. *Oli.*, 22.07.2008 (HMR), sq. no. 22, lg. *S-L.*, 11.07.2008 (OPN); sq. no. 40, thicket, lg. *Dzi.*, 31.08. 1999 (HMR); Krasnians'ke lisnictvo forestry, sq. no. 12, old military training ground, meadow, lg. *Oli.*, 26.08.2008 (HMR), lg. *S-L.*, 04.08.2009 (OPN); Kremenec'ki Hori mountains, Hora Bozha mountain, rock, lg. *Pron.*, 10.06.1999 (HMR); Kremenec'ki Gori mountains (Masliatin enclave), thicket, lg. *Pron.*, 12.06.1998 (HMR), sq. no. 14/8, lg. ?, 2008 (HMR), sq. no. 14/11, lg. ? (HMR); Ostap'ie Rocks, steppe, lg. *S-L*, 07.08.2009 (OPN); Paivka village, roadside, steppe, thicket, obs. *S-L*, 13-14.07.2008 (OPN); region of Mali Borki, thicket, obs. *S-L*, 04.08.2009; Shum enclave, sq. no. 39/1, 39/2, thicket, lg. *S-L*, 03.08.2009 (OPN), sq. no. 61, lg. ?, 02.08.2009 (HMR), sq. no. 62, lg. *S-L*, 02.08.2009 (OPN); to E of Hora Hostra Mountain, roadside, obs. *S-L*, 07.08.2009; to N of Shum enclave, thicket, obs. *S-L*, 02.08.2009; to N of Vikno village, bounds, quarry, lg. *S-L*, 07.08.2009 (OPN); to NE of Grimajliv village, thicket, obs. *S-L*, 07.08.2009; to NW of Shum enclave, thicket, obs. *S-L*, 02.08.2009; to NW of Vikno village, roadside, obs. *S-L*, 07.08.2009; to S of Ostap'ie village, rocks, obs. *S-L*, 07.08.2009; Viknians'ke lisnictvo forestry, plantation, lg. *Koz.*, sq. no. 31/29, 18.08.1999 (HMR), obs. *S-L*, 14.07.2008; Vikno village, roadside, lg. *S-L*, 12.07.2008 (OPN); Volove N enclave, thicket, obs. *S-L*, 11.07.2008; Volove S enclave, steppe, thicket, lg. *Koz.*, *Dzi.*, 31.08.1999 (HMR), obs. *S-L*, 11.07.2008.

**var. *deseglisei* (Boreau) Crépin.**

**19 stands:** 3<sup>th</sup> Horodnic'ka Tovtra hill, steppe, lg. *Oli.*, 31.08.2000 (HMR); lg. *S-L.*, 10.07.2008, 05.08.2009 (OPN); 4<sup>th</sup> Horodnic'ka Tovtra hill, steppe, lg. *S-L.*, 05.08.2009 (OPN); Hora Kremin' mountain, steppe, lg. *S-L.*, 13.07.2008 (OPN); Kozina enclave, sq. no. 58/1, thicket, lg. *S-L.*, 03.08.2009 (OPN); Krasnians'ke lisnictvo forestry, sq. no. 12, old military training ground, meadow, lg. *Oli.*, 18.08.2000 (HMR), lg. *S-L.*, 14.07.2008, 04.08.2009 (OPN); Paivka village, thicket, steppe, thicket, lg. *S-L.*, 14.07.2008 (OPN); Paivka village, roadside near forester's lodge, lg. *S-L.*, 14.07.2008 (OPN); Shum enclave, sq. no. 59, thicket, lg. *S-L.*, 03.08.2009 (OPN), to N of Shum enclave, thicket, lg. *S-L.*, 03.08.2009 (OPN); to N of Vikno, quarry, lg. *S-L.*, 07.08.2009 (OPN); to SE of Sataniv village, steppe, lg. *S-L.*, 04.08.2009 (OPN); Viknians'ke lisnictvo forestry, sq. no. 27/13, lg. *Oli.*, 05.08.2008 (HMR), sq. no. 31/19, thicket, lg. *Koz.*, 18.08.1999 (HMR), plantation, lg. *S-L.*, 14.07.2008 (OPN), sq. no. 40/5, lg. *Dzi.* 31.08.1999 (HMR), sq. no. 47/7, sq. no. 54/7, lg. *S-L.*, 03.08.2009 (OPN); Vikno village, forest, roadside, lg. *S-L.*, 12.07.2008 (OPN); Volove N enclave, thicket, obs. *S-L.*, 11.07.2008; Volove S enclave, steppe, thicket, lg. *S-L.*, 12.07.2008 (OPN).

**var. *corymbifera* (Borkh.) Boulenger**

**18 stands:** 3<sup>th</sup> Horodnic'ka Tovtra hill, steppe, obs. *S-L.*, 05.08.2009; 5<sup>th</sup> Horodnic'ka Tovtra hill, steppe, lg. *S-L.*, 05.08.2009 (OPN); Dovha Hora mountain, steppe, obs. *S-L.*, 12.07.2008; Hora Hostra Mohila mountain, steppe, lg. *S-L.*, 10.07.2008 (OPN); Horodnic'ke lisnictvo forestry, sq. no. 41, thicket, lg. *Stor.*, 24.08.1999 (HMR); Krasnians'ke lisnictvo forestry, meadow of old military training ground, lg. *Oli.*, 18, 31.08.2000 (HMR), thicket, lg. *S-L.*, 04.08.2009 (OPN), sq. no. 23, lg. ?, (HMR); Paivka village, roadside near forester's lodge, obs. *S-L.*, 14.07.2009, steppe, lg. *S-L.*, 14.07.2008 (OPN); region of Vikno village, thicket, lg. *Kag.*, 16.08.1995 (HMR); Shum enclave, sq. no. 60, lg. *Oli.*, 19.06.2006 (HMR); to E of Hora Hostra mountain, roadside, obs. *S-L.*, 07.08.2009; to NE of Hrimajliv village, thicket, lg. *S-L.*, 07.08.2009 (OPN); Viknians'ke lisnictvo forestry, sq. no. 31/18, sq. no. 31/19, thicket, lg. *Koz.*, 18.08.1999 (HMR), sq. no. 31/29, plantation, obs. *S-L.*, 14.07.2008; Vikno village, roadside, lg. *S-L.*, 12.07.2008 (OPN); Volove N enclave, thicket, obs. *S-L.*, 11.07.2008; Volove S enclave, thicket, obs. *S-L.*, 11.07.2008.

**14. *Rosa x subcanina* (H. Christ) R. Keller (n)**

(*Rosa canina* x *Rosa dumalis*) (Fig. 8)

**22 stands:** 1<sup>th</sup> Horodnic'ka Tovtra hill, steppe, lg. *S-L.*, 10.07.2008 (OPN); 2<sup>nd</sup> Horodnic'ka Tovtra hill, steppe, obs. *S-L.*, 10.07.2008; 3<sup>th</sup> Horodnic'ka Tovtra hill, steppe, lg. *S-L.*, 05.08.2009 (HMR); 4<sup>th</sup> Horodnic'ka Tovtra hill, steppe, lg. *S-L.*, 05.08.2009 (OPN); Hora Hostra mountain, steppe, thicket, lg. *S-L.*, 12.07.2008 (OPN); Hora Hostra Mohila mountain, steppe, obs. *S-L.*, 10.07.2008; Hrimajliv village, old cemetery, lg. *S-L.*, 15.07.2008 (OPN); Krasnians'ke lisnictvo forestry, sq. no. 12, old military training ground, meadow, lg. *S-L.*, 04.08.2009 (OPN), sq. no. 21, lg. *Oli.*, 22.07.2008 (HMR), sq. no. 22, lg. *S-L.*, 11.07.2008 (OPN); Paivka village, thicket, lg. *S-L.*, 13.07.2008 (OPN); region of Mali Borki, thicket, obs. *S-L.*, 04.08.2009; Shum enclave, sq. no. 39/2, sq. no. 62, thicket, lg. *S-L.*, 03.08.2009 (OPN); to E of Hora Hostra mountain, roadside, obs. *S-L.*, 07.08.2009; to N of Shum enclave, thicket, lg. *S-L.*, 03.08.2009 (OPN); to NE of Hrimajliv village, roadside, lg. *S-L.*, 07.08.2009 (OPN); to NW of Vikno village, roadside, obs. *S-L.*, 07.08.2009; Viknians'ke lisnictvo forestry, sq. no. 31/19, thicket, lg. *Koz.*, 18.08.1999 (HMR); Vikno village, roadside, lg. *S-L.*, 12.07.2008 (OPN); Volove N enclave, thicket, obs. *S-L.*, 11.07.2008; Volove S enclave, thicket, obs. *S-L.*, 11.07.2008.

**15. *Rosa x subcollina* (H. Christ) R. Keller (n)**

(*Rosa canina* x *Rosa dumalis*)



Fig. 8. *Rosa x subcanina* (H. Christ) R. Keller. A: part of fruiting short shoot; B: part of long shoot; C: part of axis of leaf; D: stipule; E<sub>1</sub>, E<sub>2</sub>, E<sub>3</sub>: fruit; F<sub>1</sub>: part of leaf (underside); F<sub>2</sub>: part of leaf (upper side). Scale: 1: D, F<sub>1</sub>, F<sub>2</sub>; 2: C; 3: A, B, E<sub>1</sub>, E<sub>2</sub>, E<sub>3</sub> (Author: A. Soltys-Lelek).

**4 stands:** Hora Hostra mountain, steppe, thicket, lg. *S-L.*, 12.07.2008 (OPN); Krasnians'ke lisnictvo forestry, sq. no. 57/9, thicket, lg. *S-L.*, 03.08.2009 (OPN); to N of Shum enclave, thicket, lg. *S-L.*, 03.08.2009 (OPN); Vikno village, roadside, lg. *S-L.*, 12.07.2008 (OPN).

**16. *Rosa turbinata* Aiton.**

(*R. majalis* Herrm. x *R. gallica* L.)

**1 stand:** Kachanovka village [7].

The species, recorded by Rehman [7], has not been confirmed since then. It is probably an extinct species.

**17. *Rosa canina* L. x *Rosa rubiginosa* L. (n)**

**1 stand:** Horodnic'ke Tovtry hills, steppe, lg. *Oli.*, 31.08.2000 (HMR).

Sect. *Rosa*

**18. *Rosa gallica* L. var. *subglandulosa* (Borbás) Heinr.**

**5 stands:** 1<sup>th</sup> Horodnic'ka Tovtra hill, steppe, lg. *S-L.*, 10.07.2008 (OPN); 2<sup>nd</sup> Horodnic'ka Tovtra hill, steppe, obs. *S-L.*, 10.07.2008; 3<sup>th</sup> Horodnic'ka Tovtra hill, steppe, lg. *Oli.*, 08.06.1993, 26.05.2000, 29.05.2006 (HMR), lg. *S-L.*, 05.08.2009 (OPN); Krasnians'ke lisnictvo forestry, thicket, lg. ?, 18.07.2008 (HMR), lg. *S-L.*, 04.08.2009 (OPN); Volove S enclave, thicket, lg. ?, 16.11.1996 (HMR), lg. *Oli.*, 28.09.2000 (HMR).

**Discussion**

Species of the *Rosa* genus belong to poorly examined representatives of the flora of Ukraine. The genus *Rosa* presents great difficulties of a taxonomical character. The *Caninae* section is decidedly the most polymorphic group in the genus. The only "good" species within the section *Caninae* is *Rosa canina* L. itself. Therefore, few scientists do research into the issues of roses, available data is often fragmentary, and identifications in herbaria collections are incorrect. This situation has led to the false distribution of data.

The paper presents the results of investigations on wild roses in the Medobory Nature Reserve (western Ukraine), conducted in the years 2008–2009, as well as available data. The systematic arrangement and nomenclature of species follows Henker [2], Popek [5, 6], and Zieliński [12, 13]. In the new systematic arrangement, a number of species of the genus *Rosa* was reduced. Many species with intermediate features were excluded. A current number of species in Western and Central Europe is 31 [6], and 28 species can only be found in Central Europe [2]. The distribution of wild roses in these parts of Europe is well known, but in Eastern Europe the distribution of the genus *Rosa* species requires revision in accordance with the new European systematics.

Probably, the list of the roses from that territory is complete. Eighteen species of wild roses were recorded in the study area: 13 of them are native species, 4 are hybrids and 1 is an anthropophyte. Four species new for the flora of this Reserve were also determined, they are: *Rosa glabrifolia*, *R. gorenkensis*, *R. x subcanina* and *R. x subcollina*.

In herbal collections the *R. dumalis* Bechst. was often determined as the *R. canina* L. Many intermediate forms occur between these species. These forms are sometimes distinguished as separate species of hybrid origin (*R. dumalis* x *R. canina*) and named: *R. x subcanina* and *R. x subcollina* [2]. Other authors claim that those are only morphologically extreme groups of the *Rosa dumalis* forms, connected by numerous specimens of an intermediate character [5, 13]. In the present work the idea is taken after Henker [2]. A spontaneous hybrid *Rosa canina* L. x *Rosa rubiginosa* L. was also found for the first time in the collection from this Reserve, but it is not classified as a stable species.

The *R. villosa* L. and *R. sherardii* Davies pose a similar problem. These species are related and sometimes it is very difficult to distinguish between them. In some cases the full herbal material is necessary.



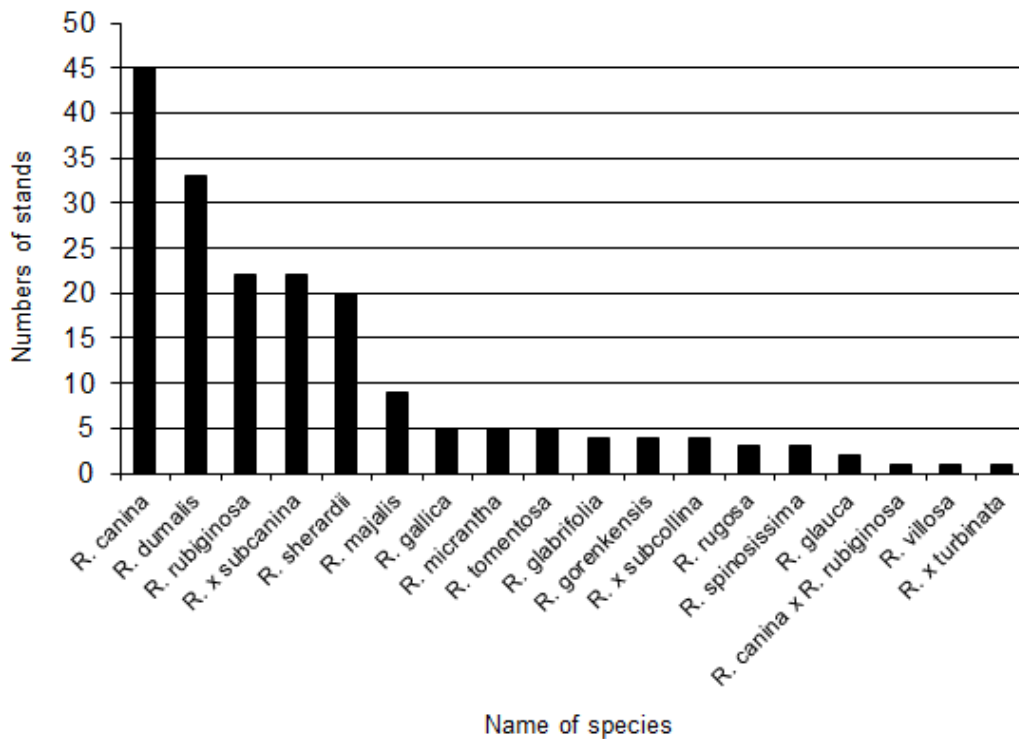
The frequency of occurrence is various. Twelve species found in the study area belong to rare species (five and less stands), e.g.: *Rosa glauca* (5 stands), *R. micrantha* (5 stands), *R. glabrifolia* (4), *R. spinosissima* (3). The most numerous species, that is *Rosa canina* (45 stands), *R. dumalis* (33) and *R. rubiginosa* (22) were classified as common and very common. In the study area these species were expansive. Numbers of species from different stands are presented in Fig. 9.

Two species, *R. villosa* L. and *R. turbinata* Ait. have not been confirmed since the 19th century, and the *Rosa galuca* Vill. since the beginning of the 20th century. They are probably extinct because of the forest succession (mainly *Prunus spinosa*) into xerothermic grasslands in the last twenty years.

The majority of the species were observed in the southern and central parts of the study area (Horodnic'ke Tovtry hills, the regions of Paivka and Vikno villages, the plantation, old military training grounds and the Volove enclave). In these parts of the area xerothermic grasslands and rich calcium carbonate soils can be found. These habitats are preferred by wild roses.

Among the recorded species, European (for example: *Rosa dumalis*, *R. tomentosa* and *R. sherardii*) and European-Asiatic species (for example: *R. majalis*, *R. spinosissima*) are dominant. The central parts of their range are located in Europe and Asia. The central part of the *R. gallica* species is located in Central and Southern Europe. The *R. glauca* European mountain species are rare.

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## ДИКОРОСТУЧІ ШИПШИНИ ПРИРОДНОГО ЗАПОВІДНИКА „МЕДОБОРИ” ТА ЙОГО ОХОРОННОЇ ЗОНИ (ПОДІЛЛЯ, ЗАХІДНА УКРАЇНА)

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У роботі висвітлені результати досліджень поширення видів дикоростучих шипшин у природному заповіднику «Медобори» та його охоронній зоні (Поділля, Західна Україна). Дослідження проводили у 2008–2009 роках. Метою досліджень було встановити повний видовий список роду шипшин, які ростуть у природному заповіднику. У районі досліджень було виявлено 13 (тринадцять) аборигенних видів, чотири гібридні форми й один утікач від вирощування. Окремі види наведені в ілюстраціях. Виявлено чотири нових для заповідника види шипшин: *Rosa glabrifolia*, *R. gorenkensis*, *R. x subcanina*, *R. x subcollina* та спонтанного гібриду *Rosa canina* x *Rosa rubiginosa*.

*Ключові слова:* *Rosa*, *Rosaceae*, флора, поширення шипшин, природний заповідник „Медобори”, Україна.

## ДИКОРАСТУЩИЕ РОЗЫ ПРИРОДНОГО ЗАПОВЕДНИКА МЕДОБОРЫ И ЕГО ОХРАННОЙ ЗОНЫ (ПОДОЛЬЕ, ЗАПАДНАЯ УКРАИНА)

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В работе представлены результаты исследований распределения видов дикорастущих роз в природном заповеднике Медоборы и его охранный зоне (Подолье, Западная Украина). Исследования были проведены в 2008–2009 годах. Целью данных исследований было установить полный список видов рода, которые растут в природном заповеднике. В районе испытаний было установлено 13 (тринадцать) аборигенных видов, четыре гибридные формы и один беглец от выращивания. Отдельные виды показаны на иллюстрациях. Найденны четыре новых для заповедника вида роз: *Rosa glabrifolia*, *R. gorenkensis*, *R. x subcanina*, *R. x subcollina* и спонтанного гибрида *Rosa canina* x *Rosa rubiginosa*.

*Ключевые слова:* *Rosa*, *Rosaceae*, флора, распределение роз, природный заповедник „Медоборы”, Украина.