

**GENUS *CRATAEGUS* L. OF THE MEDOBORY NATURE RESERVE
AND ITS PROTECTION ZONE (PODOLIAN HILLS, WESTERN UKRAINE)**

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The paper presents the list of the hawthorns 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 *Crataegus* taxa occurring in the Medobory Nature Reserve. Eight taxa, five native species and three nothospecies (hybrid species) were found, some of them were illustrated. Four taxa, *Crataegus laevigata*, *C. × macrocarpa*, *C. × media* and *C. × subsphaericea* were recorded for the first time from this area. Moreover *C. × media* is not reported in “Vascular Plants of Ukraine. A Nomenclatural Checklist” and two other *C. laevigata* and *C. × macrocarpa* are not reported in “Revision of *Crataegus* Sect. *Crataegus* and nothosect. *Crataeguineae* (Rosaceae-Maloideae) in the Old World” from western part of Ukraine.

Keywords: *Crataegus*, *Rosaceae*, flora, distribution, Medobory Nature Reserve, Ukraine.

Introduction

The genus *Crataegus* L. is a critical taxon that presents great difficulties concerning systematics. Difficulties arise in distinguishing individual species of hawthorns because of large variability of features within particular taxa, mainly caused by hybridization [1].

The studies on the occurrence of plants in the Medobory Nature Reserve date back to the 19th century. The first floristic material about species of *Crataegus* genera was reported from the area of the Medobory by Szafer [6]. Only one species of this genera was listed in this article: *Crataegus leiomonogyna* Klokov (= synonym: *C. monogyna* Jacq. var. *monogyna*). In 2002 Oliyar wrote a work entitled *Konspekt flori prirodnogo zapovidnika „Medodori”* [5] which contained a description of four hawthorn species, but some of them were given as synonyms of current names: *Crataegus rhipidophylla* Gand. (as synonymes: *C. curvisepala* Lindm. and *C. pseudokyr-tostyla* Klokov), *C. monogyna* Jacq. (as synonym: *C. lipskyi* Klokov), *C. meyeri* Pojarkova (as synonym: *C. ucrainica* Pojarkova) and *C. pentagyna* Waldstein & Kitaibel ex Willdenow.

The purpose of this paper is to present a full list of hawthorns 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 based on the observations made by the author and the materials earlier collected in the herbarium of the Medobory Nature Reserve. Hawthorns collected during study were deposited in the herbarium of the Ojców National Park (OPN) and the herbarium of the Medobory Nature Reserve. Species names and the taxonomic nomenclature follow Christensen [1, 2] and Janjić [3]. Some of specimens of the genus *Crataegus* were consulted with Professor Knud Ib Christensen from University of Copenhagen.

Species were arranged in a systematic order according to Christensen [1]. Names of localities (villages or topographic points), characteristics of habitats, names of collectors and collec-

ting dates were given for each species. Illustrations of the most important diagnostic features for selected species were inserted.

Altogether the study involved 35 localities. The frequency was determined based on the localities number and the adopted criteria were as follows: 1-5 localities – very rare species, 6-10 localities – rare species, 11-20 localities – quite frequent species, 21-30 localities – frequent species, > 30 localities – very frequent species.

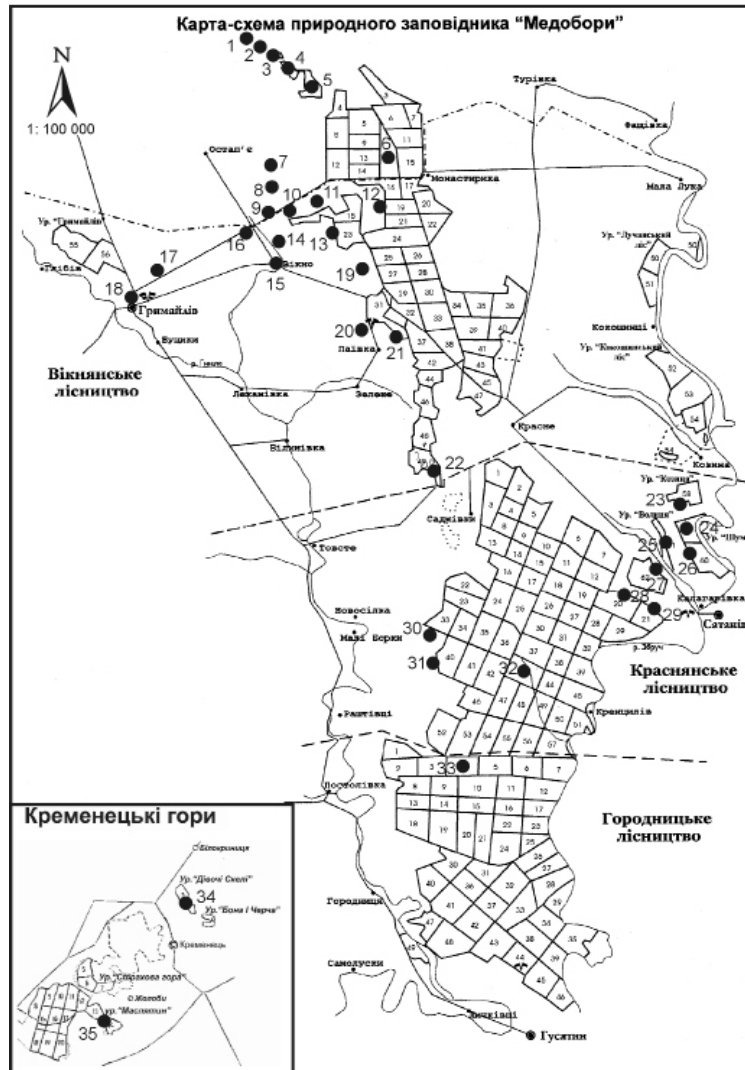


Fig. 1. Location of stands on the study area: List of stands: 1 – Muzykova (rock), 2 – 3rd Horodnic'ka Tovtra (hill), 3 – 2nd Horodnic'ka Tovtra (hill), 4 – 1st Horodnic'ka Tovtra (hill), 5 – Hora Hostra Mohila (mountain), 6 – Viknians'ke lisnictvo (forestry), sq. no. 10, 7 – Ostap'ie Skeli (rocks), 8 – to S of Ostap'ie Skeli (rocks), 9 – to W of Hora Hostra (mountain), 10 – Hora Hostra (mountain), 11 – to E of Hora Hostra (mountain), 12 – Viknians'ke lisnictvo (forestry), sq. no. 19, 13 – Ivan Frank's Skeli (rock), 14 – to N of Vikno (village), 15 – Vikno (village), 16 – to NW of Vikno (village), 17 – to NE of Hrimajliv (village), 18 – Hrimajliv (village), 19 - Dovha Hora (mountain), 20 – Paivka (village),

21 – Viknians'ke lisnictvo (forestry), plantation of *Rosa* sp., 22 – Volove S (enclave), 23 – to N of Shum (enclave), 24 – Shum (enclave), sq. no. 59/2, 25 – Krasnians'ke lisnictvo (forestry), sq. no. 61, 26 – Shum (enclave), sq. no. 60, 27 – Krasnians'ke lisnictvo (forestry), sq. no. 62, 28 – Krasnians'ke lisnictvo (forestry), sq. no. 20, 29 – Krasnians'ke lisnictvo (forestry), sq. no. 21, 30 – region of Mali Borki (village), 31 – Krasnians'ke lisnictvo (forestry), sq. no. 40, 32 – Krasnians'ke lisnictvo (forestry), sq. no. 43, old military training ground, 33 – Horodnic'ke lisnictvo (forestry), sq. no. 4, 34 – Kremenec'ka Hora (mountain), Divochi Skeli (enclave), 35 – Kremenec'ki Hori (mountains), Masliatin (enclave).

Abbreviations of collector names: *Dzi.* = S. E. Dziaba, *Oli.* = H. I. Oliyar, *Pron.* = A. M. Proniuk, *S-L* = A. Soltyś-Lelek, *Stor.* = S. A. Storozhuk.

In addition, the following abbreviations were used in the paper: *lg.* – *legit*, n - species new for the flora of the Medobory, no. – number, obs. – observation, sq. – square, E – East, N – North, NE – North-Eastern, NW – North-Western, S – South, W – West. Herbariums: HMR – Herbarium of the Medobory Nature Reserve, OPN – Herbarium of the Ojców National Park

Results

Eight native species, five species and three nothospecies (1 of them from series *Pentagynae*, 7 from series *Crataegus*) were recorded in the study area.

Ser. *Pentagynae* (Schneider) Russanov

1. *Crataegus pentagyna* Waldstein & Kitaibel ex Willdenow var. *pentagyna*

Synon.: *C. oxyacantha* var. *pentagyna* (Willdenow) Sanio

A very rare species (Fig. 2).

1 locality: Horodnic'ke lisnictvo (forestry), sq. no. 4, thicket, *lg. Stor.*, 15.05.1999 (HMR).

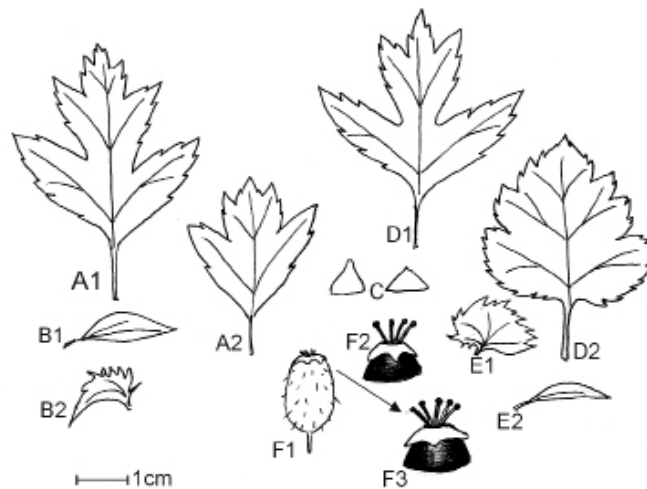


Fig. 2. *Crataegus pentagyna* Waldstein & Kitaibel ex Willdenow var. *pentagyna*. A1, A2: subterminal leaf of flowering short shoot; B: stipule of leaf of flowering short shoot; C: sepals; D1, D2: subterminal leaf of long shoot; E1, E2: stipules of long shoot; F1, F2, F3: fruits.

Ser. *Crataegus*

Subser. *Erianthae* (Pojarkova) Christensen

2. *Crataegus meyeri* Pojarkova

Synon.: *C. ucrainica* Pojarkova

A very rare species (Fig. 3).

1 locality: Viknians'ke lisnictvo (forestry), sq. no. 10, thicket, *lg. Oli.*, 18.05.1993 (OPN).

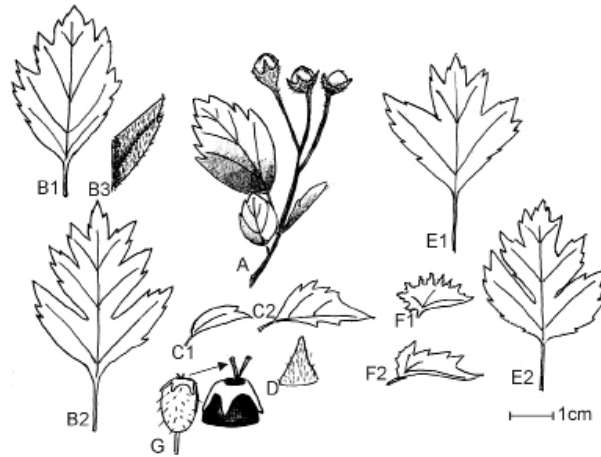


Fig. 3. *Crataegus meyeri* Pojarkova. A: part of short shoot; B1, B2: subterminal leaf of flowering short shoot; B3: part leaf of flowering short shoot (upper side); C1, C2: stipule of leaf of flowering short shoot; D: sepal; E1, E2: subterminal leaf of long shoot; F1, F2: stipules of long shoot; G: fruit.

3. *Crataegus laevigata* (Poiret) DC. (n)

Synon.: *C. oxyacantha* auct. Non. L., *C. palmstruchii* Lindm.

A rare species, not reported earlier from the study area (Fig. 4).

7 localities: 2nd Horodnic'ka Tovtra (hill), steppe, lg. *S-L.*, 10.08.2008 (OPN); 3rd Horodnic'ka Tovtra (hill), steppe, lg. *Stor.*, 15.08.1999 (HMR); Dovha Hora (mountain), steppe, lg. *S-L.*, 13.07.2009 (OPN); Hrimajliv (village) - roadside, lg. *S-L.*, 19.06.2009 (OPN); Ivan Frank's Skeli (rock), lg. *Oli.*, ? (HMR); Paivka (village), thicket, lg. *S-L.*, 13.07.2009 (OPN); Vikno (village), roadside, lg. *S-L.*, 12, 15.07.2008 (OPN).

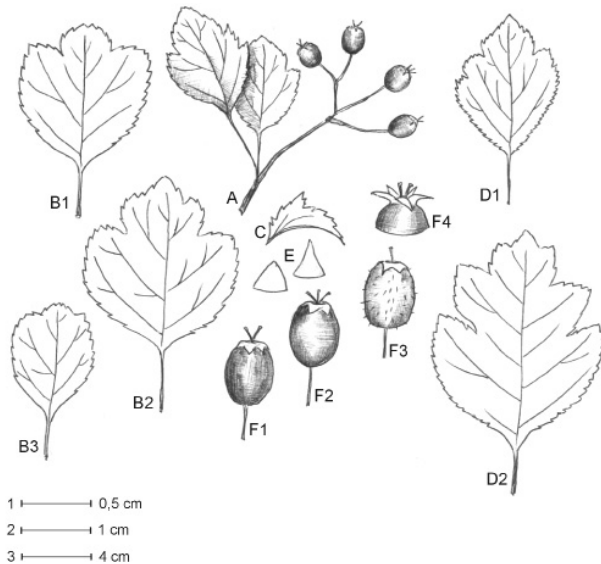


Fig. 4. *Crataegus laevigata* (Poiret) DC. A: part of short shoot; B1, B2, B3: subterminal leaf of flowering short shoot; C: stipule of leaf of flowering short shoot; D1, D2: subterminal leaf of short shoot; E: sepals; ; F1, F2, F3 F4: fruits. Scale: 1: E; 2: B1, B2, B3, C, D1, D2, F1, F2, F3 F4; 3: A.

Subser. *Crataegus*4. *C. rhipidophylla* Gand.

Synon.: *C. curvisepala* Lindm., *C. lindmanii* Hrabětová, *C. pseudokyrstostyla* Klokov

A quite frequent species. In the studied area the species occurs in two varieties:

C. r. var. rhipipophylla (Fig. 5).

17 localities: 1th Horodnic'ka Tovtra (hill), steppe, lg. *S-L*, 10.07.2008 (OPN); 3th Horodnic'ka Tovtra (hill), steppe, lg. *S-L*, 05.08.2009 (OPN); Hora Hostra (mountain), steppe, lg. *S-L*, 10.07.2008 (OPN); Hora Hostra Mohila (mountain), steppe, lg. *S-L*, 10.07.2008 (OPN); Hrimajliv (village), old cemetery, lg. *S-L*, 15.07.2008 (OPN); Hrimajliv (village), roadside, lg. *S-L*, 07.08.2009 (OPN); Krasnians'ke lisnictvo (forestry), sq. no. 40, thicket, lg. *Oli.*, 14.05.1996 (HMR); Krasnians'ke lisnictvo (forestry), thicket, lg. *S-L*, 04.08.2009 (OPN); Kremenc'ki Hori - Divochi Skeli (enclave), lg. *Pron.*, 14., 15., 05., 18.08., 30.09.2000 (HMR); Kremenc'ki Hori - Masliatin (enclave), steppe, lg. *Pron.*, 15.05., 20.09.2000 (HMR), lg. *S-L*, 08.2009 (OPN); Paivka (village), thicket, lg. *S-L*, 13.07.2008 (OPN); Paivka (village), roadside near forester's lodge, roadside, thicket, 14.07.2008 (OPN); Shum (enclave), thicket, lg. *S-L*, 03.08.2009 (OPN); to N of Shum (enclave), roadside, thicket, lg. *S-L*, 03.08.2009 (OPN); to NE of Hrimajliv (village), roadside, lg. *S-L*, 07.08.2009 (OPN); Viknians'ke lisnictvo (forestry), plantation, lg. *S-L*, 14.07.2008 (OPN), lg. *Pron.*, 14.07.2008 (HMR); Volove S (enclave), steppe, lg. *S-L*, 11.07.2008 (OPN).

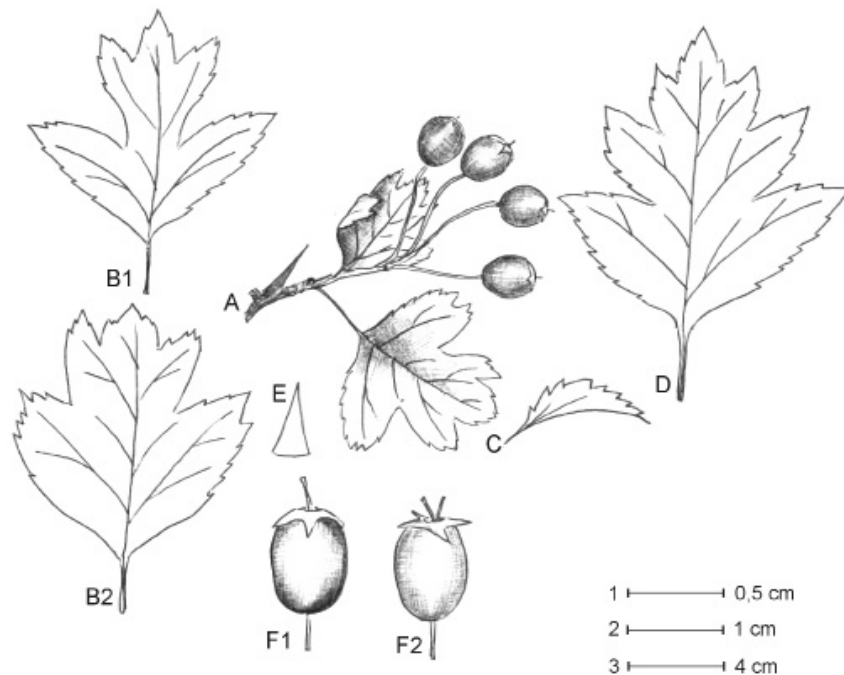


Fig. 5. *Crataegus rhipidophylla* Gand. var. *rhipipophylla*. A: part of short shoot; B1, B2: subterminal leaf of flowering short shoot; C: stipule of leaf of flowering short shoot; D: subterminal leaf of short shoot; E: sepals; F1, F2: fruits. Scale: 1: E; 2: B1, B2, C, D1, D2, F1, F2; 3: A.

C. r. var. ronnigeri (K. Malý) Janjić (Fig. 6).

1 locality: Kremenc'ki Hori mountains - Masliatin (enclave), steppe, lg. *Pron.*, 15.05., 20.09.2000 (HMR).

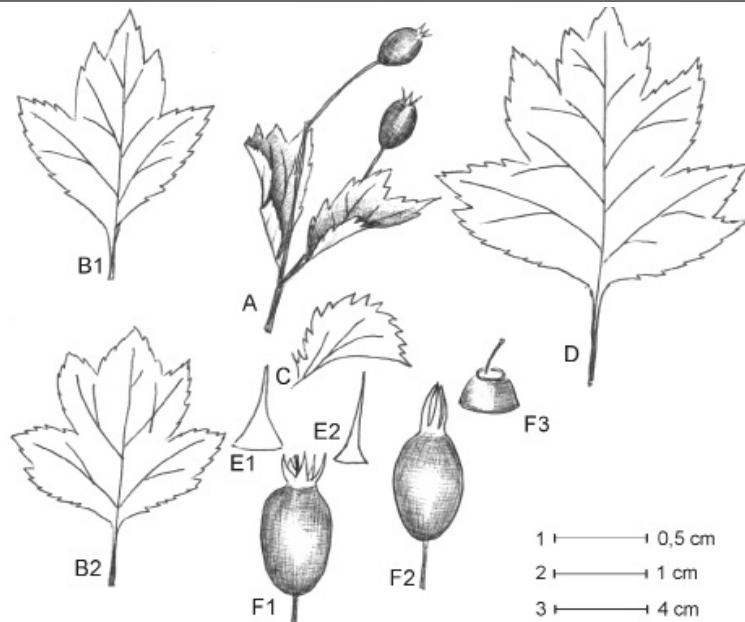


Fig. 6. *Crataegus rhipidophylla* Gand. var. *ronnigeri* (K. Malý) Janjić. A: part of short shoot; B1, B2: subterminal leaf of flowering short shoot; C: stipule of leaf of flowering short shoot; D: subterminal leaf of short shoot; E1, E2: sepals; F1, F2, F3: fruits. Scale: 1: E1, E2; 2: B1, B2, C, D, F1, F2, F3; 3: A.

5. *C. monogyna* Jacq. var. *monogyna*

Synon.: *C. leiomonogyna* Klokov, *C. lipskyi* Klokov

A frequent species. In the studied area the species occurs in one variety (Fig. 7).

28 localities: 1th, 2nd, 3th, Horodnic'ka Tovtra (hills), steppe, lg. *S-L*, 10.07.2008 (OPN), obs. *S-L*, 05.08.2009; Dovha Hora (mountain), steppe, lg. *S-L*, 13.07.2009 (OPN); Hora Hostra (mountain), thicket, lg. *Dzi.*, lg. *Oli.*, 26, 31.08.2000 (HMR), lg. *S-L*, 12.07.2008 (OPN); Hora Hostra Mohila (mountain), steppe, leg. *S-L*, 10.07.2008 (OPN); Hrimajliv (village), xerothermic grassland, lg. *S-L*, 07.08.2009 (OPN); Hrimajliv (village), roadside, lg. *S-L*, 07.08.2009 (OPN); Krasnians'ke lisnictvo (forestry), old military training ground, meadow, obs. *S-L*, 04.08.2009; Krasnians'ke lisnictvo (forestry), sq. no. 21, thicket, lg. *Oli.*, 14.07.2008 (HMR), sq. no. 22, thicket, lg. *S-L*, 11.07.2008 (OPN), sq. no. 40, thicket, lg. *Dzi.*, 31.08.1999 (HMR); Kremenec'ka Hora (mountain), thicket, lg. *S-L*, 13.07.2009 (OPN); Ostap'ie Skeli (rocks), steppe, obs. *S-L*, 07.08.2009; Muzykova (rock), steppe, obs. *S-L*, 05.08.2009; Paivka (village), roadside near for-ester's lodge, roadside, thicket, 14.07.2008 (OPN); Paivka (village), orchard, 14.07.2008 (OPN); Paivka (village), sq. no. 31, forest, 14.07.2008 (OPN); region of Mali Borki (village), thicket, obs. *S-L*, 04.08.2009; Shum (enclave), sq. no. 61, 62, thicket, obs. *S-L*, 02.08.2009; to E of Hora Hostra (mountain), obs. *S-L*, 07.08.2009; to N of Vikno (village), boundary of fields, lg. *S-L*, 07.08.2009 (OPN); to NE of Hrimajliv (village), thicket, obs. *S-L*, 07.08.2009; to NW of Vikno (village), roadside, obs. *S-L*, 07.08.2009; to S of Ostap'ie Skeli (rocks), roadside, obs. *S-L*, 07.08.2009; to W of Hora Hostra (mountain), obs. *S-L*, 07.08.2009; Viknians'ke lisnictvo (forestry), plantation, lg. *S-L*, 14.07.2008 (OPN); Vikno (village), roadside, thicket, lg. *S-L*, 13, 15.07.2008 (OPN); Volove S (enclave), steppe, lg. *Oli.*, 29.05.1995 (HMR), lg. *S-L*, 11.07.2008 (OPN).

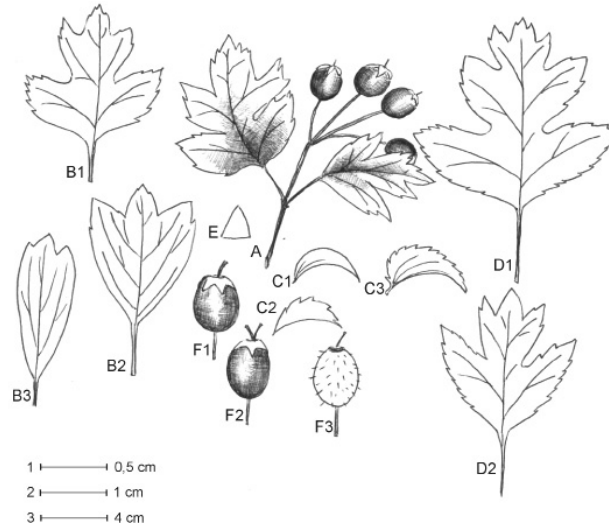


Fig. 7. *Crataegus monogyna* Jacq. var. *monogyna*. A: part of short shoot; B1, B2, B3: subterminal leaf of flowering short shoot; C1, C2: stipule of leaf of flowering short shoot; D1, D2: subterminal leaf of short shoot; E: sepal; F1, F2, F3: fruits. Scale; 1: E; 2: B1, B2, B3, C1, C2, C3, D1, D2, F1, F2, F3; 3: A.

Nothospecies of *Crataegus* series *Crataegus*

6. *C. × macrocarpa* Hegetschw. nothovar. *macrocarpa* (n)

A very rare species, not reported earlier from the study area. In the studied area the species occurs in one variety (Fig. 8).

Synon.: *C. × uhrovae* Soó

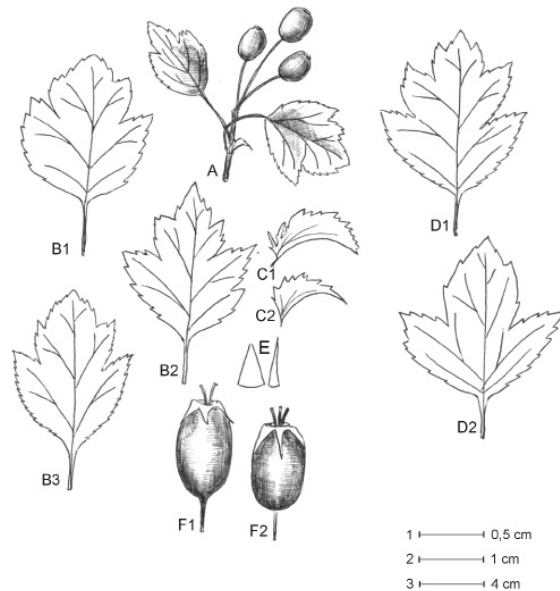


Fig. 8. *Crataegus x macrocarpa* Hegetschw. nothovar. *macrocarpa*. A: part of short shoot; B1, B2, B3: subterminal leaf of flowering short shoot; C1, C2: stipule of leaf of flowering short shoot; D1, D2: subterminal leaf of short shoot; E: sepals; F1, F2: fruits (fruit crowned by recurved sepals). Scale; 1: E; 2: B1, B2, B3, C1, C2, D1, D2, F1, F2; 3: A.

2 localities: Kremenec'ka Hora (mountain), thicket, lg. *S-L*, 13.07.2009 (OPN); to N of Shum (enclave), roadside, lg. *S-L*, 02.08.2009 (OPN).

7. *C. × subsphaericea* Gand. nothovar. *subsphaericea* (n)

Synon.: *C. × kyrtostyla* Fingerhuth

A rare species. In the studied area the species occurs in one variety (Fig. 9).

8 localities: Dovha Hora (mountain), steppe, lg. *S-L*, 15.07.2009 (OPN); Hrimajliv (village), old cemetery, lg. *S-L*, 15.07.2008 (OPN); Hora Hostra (mountain), steppe, lg. *S-L*, 12.07.2008 (OPN); Krasnians'ke lisnictvo (forestry), old military training ground, meadow, lg. *S-L*, 04.08.2009 (OPN); Paivka (village), forest, lg. *S-L*, 14.07.2008 (OPN); Shum (enclave), sq. no. 59, roadside, lg. *S-L*, 03.08.2009 (OPN); to N of Vikno (village), boundary of fields, lg. *S-L*, 07.08.2009 (OPN); Volove S (enclave), steppe, lg. *S-L*, 11.07.2008 (OPN).

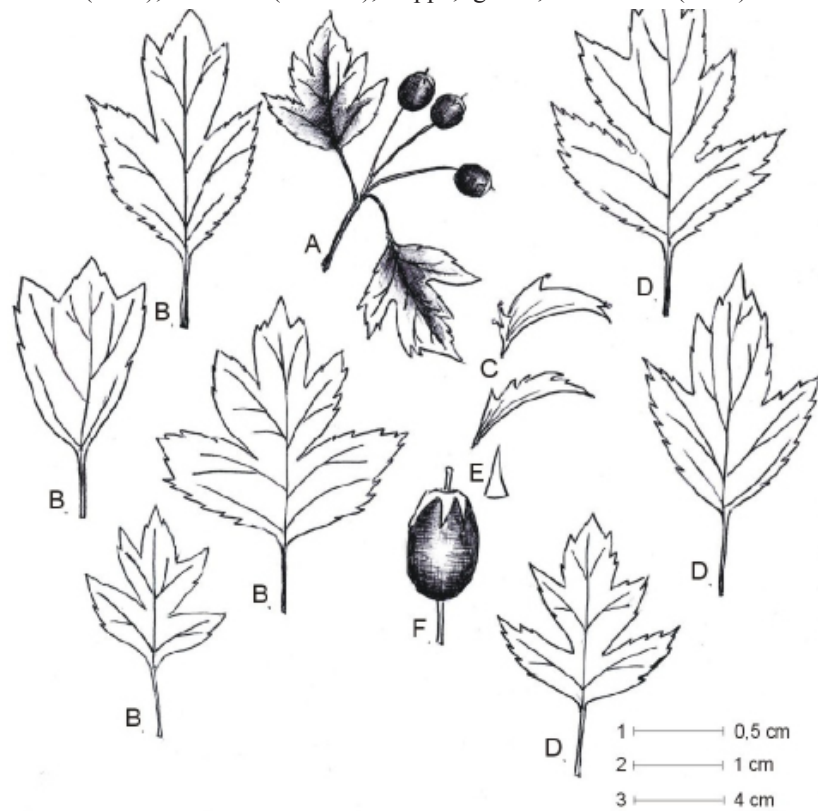


Fig. 9. *Crataegus x subsphaericea* Gand. nothovar. *subsphaericea*. A: part of short shoot; B₁, B₂, B₃, B₄: subterminal leaf of flowering short shoot; C: stipule of leaf of flowering short shoot; D₁, D₂, D₃: subterminal leaf of short shoot; E: sepals; F₁: fruits. Scale: 1: E; 2: B₁, B₂, B₃, B₄, C, D₁, D₂, D₃, F₁; 3: A.

8. *C. × media* Bechst. nothovar. *media* (n)

Synon.: *C. × oxyacanyhoides* Doll

A very rare species, not reported earlier from the study area and not reported in “*Vascular Plants of Ukraine. A Nomenclatural Checklist*” [4]. In the studied area the species occurs in one variety (Fig. 10).

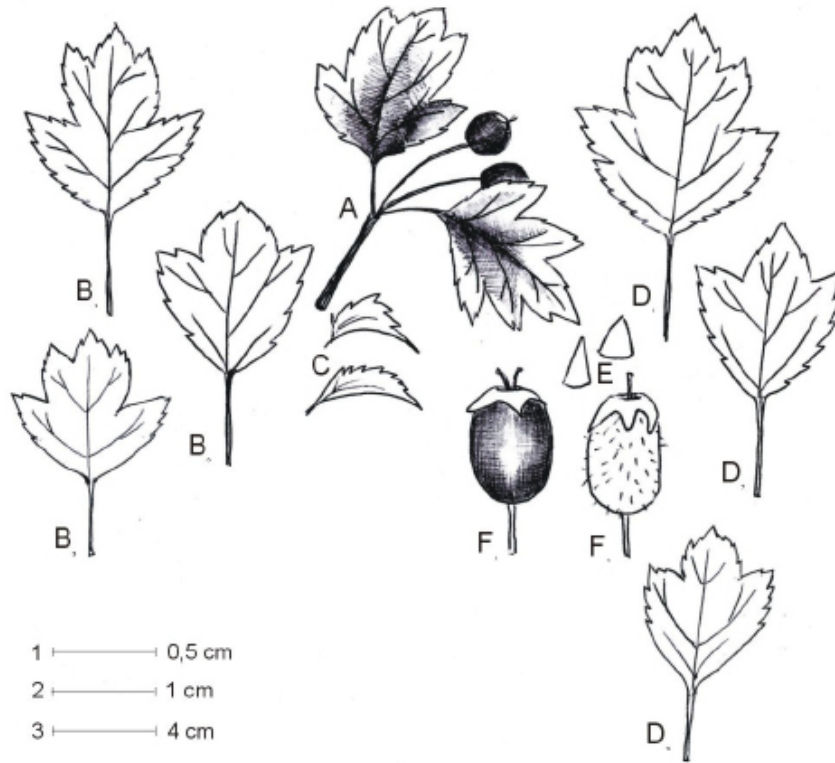


Fig. 10. *Crataegus x media* Bechst. nothovar. *media*. A: part of short shoot; B₁, B₂, B₃: subterminal leaf of flowering short shoot; C: stipule of leaf of flowering short shoot; D₁, D₂, D₃: subterminal leaf of short shoot; E: sepals; F₁, F₂: fruits. Scale: 1: E; 2: B₁, B₂, B₃, C, D₁, D₂, D₃, F₁, F₂; 3: A.

3 localities: Dovha Hora (mountain), steppe, lg. *S-L.*, 13.07.2009 (OPN); Ostap'ie Skeli (rocks), steppe, leg. *S-L.*, 07.08.2009 (OPN); Paivka (village), forest, leg. *S-L.*, 13.07.2008 (OPN).

Discussion

The paper presents the results of investigations on hawthorns in the Medobory Nature Reserve (Western Ukraine), conducted in the years 2008–2009, as well as available data. In the new systematic arrangement by Christensen [1] number of species of the genus *Crataegus* was reduced. Many species with intermediate features were excluded. The distribution of hawthorns in Europe is well known, but in Eastern Europe the distribution of the genus *Crataegus* species requires revision in accordance with the new European systematic. The current number of hawthorns in Europe is 26 [1] and 14 native species of them occur in Ukraine (four only in the Crimea) according to “Vascular Plants of Ukraine. A Nomenclatural Checklist” [4]. In the study area eight species of hawthorns were recorded: five native species and three nothospecies. Collected species represent more than half species found in Ukraine. Moreover four species new for the flora of Medobory Nature Reserve were also determined: *Crataegus laevigata*, *C. x macrocarpa*, *C. x media* and *C. x subsphaericea*.

The frequency of occurrence is various. Four species found in the study area belong to very rare species (five and less localities), e.g.: *Crataegus x media* (3 localities), *C. x macrocarpa*, (2 localities), *C. meyeri* (1 locality) and *C. pentagyna* (1 locality). The most numerous species: *C. monogyna* (28 localities) and *C. rhipidiphylla* (17 localities) were classified as common.

The majority of the species was observed in the southern and central parts of the study area (Horodnic'ke Tovtry hills, the regions of Paivka and Vikno villages and the Shum enclave). In these parts of the study area xerothermic grasslands and rich calcium carbonate soils can be found. These habitats are preferred by hawthorns.

Among the recorded species, European-temperate-Mediterranean elements are dominant (Tab. 1). The central part of their range is located in Europe and Mediterranean region. The *Crataegus meyeri* is a very interesting species. It belongs to Pontic-Pannonian-Irano-Turanian elements and occurs in Ukraine, the Crimea, Asian Turkey, northern Iraq, Armenia, Azerbaijan and Iran [1]. Other species *C. × media* is not reported in "Vascular Plants of Ukraine. A Nomenclatural Checklist" [4]. According to "Revision of *Crataegus* Sect. *Crataegus* and *nothosect. Crataeguineae* (Rosaceae-Maloideae) in the Old World" [1], the species belongs to European-temperate-Mediterranean element and occurs from the British Isles and the Baltic region to northern parts of the Balkan Peninsula, Italy and France [1]. Also two other *C. laevigata* and *C. × macrocarpa* are not reported in "Revision of *Crataegus*..." [1] from western part of Ukraine.

Generally, within the boundaries of the discussed area the study confirmed existence of more than 50% native hawthorn species occurring in Ukraine, which suggests the high species richness of the region of a relatively small area. This however does not exclude the fact that within its boundaries isolated localities of another hawthorn species can occur.

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доопрацьована 17.05.12

прийнята до друку 18.05.12

**ВИДИ РОДУ *CRATAEGUS* L. ПРИРОДНОГО ЗАПОВІДНИКА «МЕДОБОРИ»
ТА ЙОГО ОХОРОННОЇ ЗОНИ (ПОДІЛЛЯ, ЗАХІДНА УКРАЇНА)****А. Солтис-Лелек**

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У роботі висвітлені результати дослідження поширення видів роду *Crataegus* L. у природному заповіднику «Медобори» та його охоронній зоні (Поділля, Західна Україна). Дослідження проводились у 2008–2009 рр. Їх метою було встановлення повного списку видів роду *Crataegus* L., які ростуть у природному заповіднику. У районі досліджень виявлено 5 аборигенних видів і 3 гібридні форми. Для окремих видів наведені ілюстрації. Виявлено чотири нових для заповідника види: *Crataegus laevigata*, *C. × macrocarpa*, *C. × media* і *C. × subsphaericea*. Окрім того, *C. × media* не наводиться у «Vascular Plants of Ukraine. A Nomenclatural Checklist», а два інших види *C. laevigata* і *C. × macrocarpa* у виданні «Revision of *Crataegus* Sect. *Crataegus* and nothosect. *Crataeguineae* (Rosaceae-Maloideae) in the Old World» не вказуються для території Західної України.

Ключові слова: *Crataegus*, *Rosaceae*, флора, поширення видів глоду, природний заповідник «Медобори», Україна.

**ВИДЫ РОДА *CRATAEGUS* L. ПРИРОДНОГО ЗАПОВЕДНИКА МЕДОБОРЫ
И ЕГО ОХРАННОЙ ЗОНЫ (ПОДОЛЬЕ, ЗАПАДНАЯ УКРАИНА)****А. Солтыс-Лелек**

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В работе представлены результаты исследования распространения видов рода *Crataegus* L. в природном заповеднике «Медоборы» и его охранный зоне (Подолье, Западная Украина). Исследования проводились в 2008–2009 годах. Их целью было установление полного списка видов рода *Crataegus* L., которые произрастают в природном заповеднике. В районе исследований выявлено 5 аборигенных видов и 3 гибридные формы. Для отдельных видов приведены иллюстрации. Обнаружены четыре новых для заповедника вида боярышника: *Crataegus laevigata*, *C. × macrocarpa*, *C. × media* и *C. × subsphaericea*. Кроме того, *C. × media* не упоминается в «Vascular Plants of Ukraine. A Nomenclatural Checklist», а два других вида *C. laevigata* и *C. × macrocarpa* в издании «Revision of *Crataegus* Sect. *Crataegus* and nothosect. *Crataeguineae* (Rosaceae-Maloideae) in the Old World» не приводятся для территории Западной Украины.

Ключевые слова: *Crataegus*, *Rosaceae*, флора, распространение видов боярышника, природный заповедник «Медоборы», Украина.