

CHECKLIST OF MOSSES OF CROATIA

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Abstract - Published data and available herbaria were used to compile a checklist of Croatian mosses. The flora of bryophytes of Croatia numbers 476 taxa. Among taxa known from Croatia, three are European endemic species and 25 taxa are of pan-European conservation interest.

Key words: Mosses, checklist, Croatia

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INTRODUCTION

Bryophytes of Croatia remain a poorly investigated plant group, despite the fact that the eminent ex-Yugoslav bryologist Z. Pavletić lived and worked in Zagreb. Because Croatia has been insufficiently investigated in the bryological sense, there is a great shortage of data on the bryophyte flora. More data are available on bryophytes from the coastal part of Croatia. Other regions need to be further investigated (Saboljević, 2003). The most comprehensive data on the Croatian bryoflora can be found in Pavletić (1955) and Martinčić (1968), while the best treatment of Croatian hepaticas is unquestionably that of Bischle and Jovet-Ast (1973). According to Saboljević (2004) and Saboljević *et al.* (2001), Croatia can be assumed to have a quite rich bryophyte flora. Of the sources mentioned, the first two are compilations of data from the older literature. Recently, there have been no active bryologists in Croatia and no bryological research. Thirty-eight bryophyte species in Croatia are of interest from the standpoint of wider European conservation, and 28 of these are mosses listed in the Red Data Book of European Bryophytes (ECCB, 1995). It is not known if any steps have been taken towards protection of locally and globally endangered bryophytes in Croatia (Saboljević *et al.*, 2001).

MATERIAL, METHODS, AND AIM OF STUDY

After the checklist of hepaticas (Saboljević, 2003), an extensive effort has been made to compile a

checklist of the mosses of Croatia.

Both published sources and specimens in available herbaria (the BEOU herbarium and some private herbaria from the Netherlands) have been searched to compile moss records of Croatia. An extensive list of localities can be found in Pavletić (1955). The present list should make information on Croatian mosses available to all interested scientists and prompt the authorities to pay attention to this group and enact regulative and protective laws in accordance with EU directives. The list offers basic information useful for planning further research on the moss flora of Croatia and ensuring its protection.

RESULTS

The moss flora of Croatia so far numbers 476 taxa. The results presented here were gleaned from various literature and herbarium sources (Adé and Koppe, 1955; Boroš, 1968a, 1968b; Dulell *et al.*, 1999; Kučera, 1998; Latzel, 1931; Martinčić, 1963, 1966, 1968; Pavletić, 1955, 1956, 1968; Pichler, 1931; Pócs, 1960a, 1960b; Podpera, 1954; Suanjak, 2002; Tóth, 1986; Weiss, 1866; Saboljević *et al.*, 2001 and Saboljević, 2004). For an extensive list of references, see the References section of the paper.

The list in Table 1 follows recent nomenclature for mosses as given in Casals *et al.* (2001), Cortini-Pedrotti (2001), Corley (1981), and Corley and Crundwell (1991).

The following is a list of most common synonyms for Croatian mosses in older literature: T – taxa apparently threatened but presenting taxonomic problems; NT – not threatened anywhere in Europe; K – insufficiently known taxa; R – rare; E – endangered.

- Aphanorhegma patens* (Hedw.) Lindb. = *Physcomitrella patens* (Hedw.) BS
Barbula gracilis Schwägr. = *Didymodon acutus* (Brid.) K. Saito
Brachythecium reflexum (Starke) BSG = *Brachythecium kosanini* Podp.
Bryum rubens Mitt. = *Bryum erythrocarpum* Schwägr. = *Bryum atrovirens* Brid.
Cinclidotus herzogi Pavletic = *Cinclidotus danubicus* Schiffn. & Baumg.
Entodon concinnus (De Not.) Par. = *Entodon orthocar-*

Table 1. A + means that data are older than 1965, while a - indicates that data were published after 1965. Parentheses signify a doubtful record.

Species	HR
<i>Acaulon muticum</i> (Hedw.) Müll. Hal.	+
<i>Acaulon mediterraneum</i> Limpr.	+
<i>Acaulon piligerum</i> (De Not.) Limpr.	+
<i>Acaulon triquetrum</i> (Spruce) Müll. Hal.	+
<i>Aloina aloides</i> (K.F.Schulz) Kindb.	-
<i>Aloina ambigua</i> (Bruch & Schimp.) Limpr.	+
<i>Aloina rigida</i> (Hedw.) Limpr.	+
<i>Amblystegium confervoides</i> (Brid.) BSG	-
<i>Amblystegium riparium</i> (Hedw.) BSG	-
<i>Amblystegium saxatile</i> Schimp.	+
<i>Amblystegium serpens</i> (Hedw.) BSG	+
<i>Amblystegium subtile</i> (Hedw.) BSG	-
<i>Amblystegium tenax</i> (Hedw.) C. jens.	+
<i>Amblystegium varium</i> (Hedw.) Lindb.	-
<i>Amphidium mougeotii</i> (BS) Schimp.	+
<i>Andreaea rupestris</i> Hedw.	+
<i>Anomodon attenuatus</i> (Hedw.) Hueb.	-
<i>Anomodon longifolius</i> (Brid.) Hartm.	+
<i>Anomodon rugelii</i> (C. Muell.) Keissl.	-
<i>Anomodon viticulosus</i> (Hedw.) Hook. & Tayl.	-
<i>Antitrichia curtipendula</i> (Hedw.) Brid.	-
<i>Aphanorhegma patens</i> (Hedw.) Lindb.	+
<i>Archidium alternifolium</i> (Hedw.) Schimp.	+
<i>Aschisma carniolicum</i> (F. Weber & D. Mohr) Lindb.	+
<i>Atrichum angustatum</i> (Brid.) BS	-
<i>Atrichum tenellum</i> (Röhl.) Bruch & Schimp.	+
<i>Atrichum undulatum</i> (Hedw.) P. Beauv.	-
<i>Aulacomnium androgynum</i> (Hedw.) Schwägr.	+
<i>Aulacomnium palustre</i> (Hedw.) Schwägr.	+
<i>Barbula convoluta</i> Hedw.	-
<i>Barbula crocea</i> (Brid.) Web. & Mohr	+

Table 1. Continued.

<i>Barbula ehrenbergii</i> (Lorenzt) M. Fleisch.	+
<i>Barbula unguiculata</i> Hedw.	-
<i>Bartramia halleriana</i> Hedw.	+
<i>Bartramia pomiformis</i> Hedw.	+
<i>Bartramia stricta</i> Brid.	+
<i>Blindia acuta</i> (Hedw.) Bruch et al.	+
<i>Blindia caespiticia</i> (Weber & D. Mohr) Müll. Hal.	+
<i>Brachythecium albicans</i> (Hedw.) BSG	+
<i>Brachythecium campestre</i> (C. Müll.) Schimp.	+
<i>Brachythecium glareosum</i> (Spruce) BSG	-
<i>Brachythecium mildeanum</i> (Schimp.) Milde	+
<i>Brachythecium plumosum</i> (Hedw.) BSG	+
<i>Brachythecium populeum</i> (Hedw.) BSG	-
<i>Brachythecium reflexum</i> (Starke) BSG	+
<i>Brachythecium rivulare</i> BSG	-
<i>Brachythecium rutabulum</i> (Hedw.) BSG	-
<i>Brachythecium salebrosum</i> (Web. & Mohr) BSG	+
<i>Brachythecium starkei</i> (Brid.) BSG	+
<i>Brachythecium velutinum</i> (Hedw.) BSG	-
<i>Bruchia flexuosa</i> (Sw.) C. Muell.	-
<i>Bryoerythrophyllum recurvirostrum</i> (Hedw.) Chen	-
<i>Bryum algovicum</i> Sendtn.	+
<i>Bryum alpinum</i> With.	+
<i>Bryum amblyodon</i> C. Müll.	+
<i>Bryum argenteum</i> Hedw.	-
<i>Bryum badium</i> (Brid.) Schimper	+
<i>Bryum bicolor</i> Dicks.	-
<i>Bryum caespiticum</i> Schwägr.	+
<i>Bryum canariense</i> Brid.	-
<i>Bryum capillare</i> Hedw.	-
<i>Bryum creberrimum</i> Taylor	-
<i>Bryum donianum</i> Grev.	+
<i>Bryum elegans</i> Nees ex Brid.	+
<i>Bryum funckii</i> Schwägr.	+
<i>Bryum gemmiparum</i> De Not.	-
<i>Bryum kunzei</i> Hornsch.	+
<i>Bryum mildeanum</i> Jur.	+
<i>Bryum neodamense</i> Itzigs.	+
<i>Bryum pallescens</i> Schleicher ex Schwägr.	-
<i>Bryum pseudotriquetrum</i> (Hedw.) Gaertn.	-
<i>Bryum radiculosum</i> Brid.	+
<i>Bryum ruderale</i> Crundw. & Nyholm	+
<i>Bryum subelegans</i> Kindb.	+
<i>Bryum troquescens</i> BS	-
<i>Bryum turbinatum</i> (Hedw.) Turn	+
<i>Buxbaumia viridis</i> (Lam. & DC) Moug. & Nestl.	+
<i>Callicladium haldanianum</i> (Grev.) Crum.	+
<i>Calliergon cordifolium</i> (Hedw.) Kindb.	+
<i>Calliergon giganteum</i> (Schimp.) Kindb.	+
<i>Calliergon stramineum</i> (Wahlenb.) Kindb.	+
<i>Calliergonella cuspidata</i> (Hedw.) Loeske	-
<i>Campylium calcareum</i> Crundw. & Nyholm	+

Table 1. Continued.

<i>Campylium chrysophyllum</i> (Brid.) J. Lange	-
<i>Campylium elodes</i> (Lindb.) Kindb.	+
<i>Campylium halleri</i> (Hedw.) Lindb.	+
<i>Campylium stellatum</i> (Hedw.) J. Lange & C. Jens	+
<i>Campylopus flexuosus</i> (Hedw.) Brid.	+
<i>Campylopus pyriformis</i> (Schultz) Brid.	+
<i>Campylostelium saxicola</i> (Web. & Mohr) BSG	+
<i>Ceratodon conicus</i> (Hampe) Lindb.	+
<i>Ceratodon purpureus</i> Hedw.	-
<i>Cheilothela chloropus</i> (Brid.) Limpr.	+
<i>Cinclidotus aquaticus</i> (Hedw.) BS	-
<i>Cinclidotus danubicus</i> Schiffn. & Baumg.	+
<i>Cinclidotus fontinaloides</i> (Hedw.) P. Beauv.	-
<i>Cinclidotus mucronatus</i> (Brid.) Mach	-
<i>Cinclidotus riparius</i> (Brid.) Arn.	+
<i>Cirriphyllum cirrosum</i> (Schwägr.) Grout	+
<i>Cirriphyllum piliferum</i> (Hedw.) Grout	+
<i>Cirriphyllum tomasinii</i> (Sendtner ex Boulay) Grout	-
<i>Climaciun dendroides</i> (Hedw.) Web. & Mohr.	+
<i>Cratoneuron filicinum</i> (Hedw.) Spruce	-
<i>Crossidium squamiferum</i> (Viv.) Jur.	+
<i>Cryphaea heteromalla</i> (Hedw.) Mohr	-
<i>Ctenidium molluscum</i> (Hedw.) Mitt.	-
<i>Ctenidium procerrimum</i> (Mol.) Lindb.	+
<i>Cynodontium polycarpon</i> (Hedw.) Schimp.	+
<i>Dichodontium pellucidum</i> (Hedw.) Schimp.	+
<i>Dicranella heteromalla</i> (Hedw.) Schimp.	+
<i>Dicranella howei</i> Renauld & Cardot	+
<i>Dicranella palustris</i> (Dicks.) Crundw. ex E. F. Warb.	+
<i>Dicranella rufescens</i> (Dicks.) Schimp.	+
<i>Dicranella schreberiana</i> (Hedw.) Dixon	-
<i>Dicranella subulata</i> (Hedw.) Schimp.	+
<i>Dicranella varia</i> (Hedw.) Schimp.	-
<i>Dicranoweisia cirrata</i> (Hedw.) Lindb. ex Milde	+
<i>Dicranoweisia crispula</i> (Hedw.) Milde	+
<i>Dicranum bergeri</i> Bland.	(++)
<i>Dicranum bonjeanii</i> De Not.	+
<i>Dicranum flagellare</i> Hedw.	+
<i>Dicranum flexicaule</i> Brid.	+
<i>Dicranum fulvum</i> Hook.	+
<i>Dicranum fuscescens</i> Sm.	+
<i>Dicranum montanum</i> Hedw.	+
<i>Dicranum polysetum</i> Sw.	+
<i>Dicranum scoparium</i> Hedw.	-
<i>Dicranum tauricum</i> Sapehin	+
<i>Dicranum viride</i> (Sull. & Lesq.) Lindb.	+
<i>Didymodon acutus</i> (Brid.) K. Saito	-
<i>Didymodon cordatus</i> Jur.	+
<i>Didymodon fallax</i> (Hedw.) Zander	-
<i>Didymodon ferrugineus</i> (Schimp. ex Besch.) M. O. Hill	+
<i>Didymodon luridus</i> Hornsch. ex Spreng.	-

Table 1. Continued.

<i>Didymodon rigidulus</i> Hedw.	-
<i>Didymodon sinuosus</i> (Mitt.) Delogne	-
<i>Didymodon spadiceus</i> Mitt.	+
<i>Didymodon tophaceus</i> (Brid.) Lisa	-
<i>Didymodon vinealis</i> (Brid.) Zander	-
<i>Diphyscium foliosum</i> (Hedw.) D. Mohr	+
<i>Distichium capillaceum</i> (Hedw.) BSG	+
<i>Distichium inclinatum</i> (Hedw.) Bruch et al.	+
<i>Ditrichum flexicaule</i> (Schwaegr.) Hampe	-
<i>Ditrichum heteromallum</i> (Hedw.) E. Britton	+
<i>Ditrichum pallidum</i> (Hedw.) Hampe	+
<i>Ditrichum pusillum</i> (Hedw.) Hampe	+
<i>Drepanocladus aduncus</i> (Hedw.) Warnst.	-
<i>Dryptodon patens</i> (Hedw.) Brid.	+
<i>Encalypta ciliata</i> Hedw.	+
<i>Encalypta rhaftocarpa</i> Schwägr.	+
<i>Encalypta streptocarpa</i> Hedw.	-
<i>Encalypta vulgaris</i> Hedw.	-
<i>Entodon concinnus</i> (De Not.) Par.	-
<i>Entodon schleicheri</i> (Schimp.) Demet.	+
<i>Entostodon attenuatus</i> (Dicks.) Bryhn.	-
<i>Entostodon fascicularis</i> (Hedw.) Müll. Hal.	+
<i>Entostodon obtusus</i> (Hedw.) Lindb.	-
<i>Ephememerum cohaerens</i> (Hedw.) Hampe	+
<i>Ephememerum recurvifolium</i> (Dicks.) Boulay	+
<i>Ephememerum serratum</i> Hedw.	-
<i>Eucladium verticillatum</i> (Brid.) BSG	-
<i>Eurhynchium angustirete</i> (Broth.) T. Kop	-
<i>Eurhynchium crassinervium</i> (Wils. ex Hook.) Schimp.	-
<i>Eurhynchium hians</i> (Hedw.) Sande	+
<i>Eurhynchium meridionale</i> (BSG) De Not	+
<i>Eurhynchium praelongum</i> (Hedw.) BSG	+
<i>Eurhynchium pulchellum</i> (Hedw.) Jenn	+
<i>Eurhynchium pumilum</i> (Wils.) Schimp.	+
<i>Eurhynchium schleicheri</i> (Hedw.) Milde	+
<i>Eurhynchium speciosum</i> (Brid.) Jur.	+
<i>Eurhynchium striatulum</i> (Spruce) BSG	+
<i>Eurhynchium striatum</i> (Hedw.) Schimp.	+
<i>Fabronia pusilla</i> Raddi	+
<i>Fissidens adianthoides</i> Hedw.	+
<i>Fissidens algarvicus</i> Solms	+
<i>Fissidens arnoldii</i> Ruthe	+
<i>Fissidens bryoides</i> Hedw.	+
<i>Fissidens crassipes</i> Wilson	+
<i>Fissidens dubius</i> P. Beauv.	+
<i>Fissidens exilis</i> Hedw.	+
<i>Fissidens gracilifolius</i> Bruggeman-Nannenga	+
<i>Fissidens gymnandrus</i> Buse	+
<i>Fissidens kosaninii</i> Latz.	+
<i>Fissidens limbatum</i> Sull.	+
<i>Fissidens osmundoides</i> Hedw.	+
<i>Fissidens ovatifolius</i> R. Ruthe	+

Table 1. Continued.

<i>Fissidens pallidicaulis</i> Mitt.	+
<i>Fissidens pusillus</i> (Wilson) Milde	+
<i>Fissidens rufulus</i> Bruch et al.	+
<i>Fissidens serrulatus</i> Brid.	+
<i>Fissidens taxifolius</i> Hedw.	+
<i>Fissidens viridulus</i> (Sw.) Wahlenb.	+
<i>Fontinalis antipyretica</i> Hedw.	+
<i>Fissidens duriaeae</i> Schimp	+
<i>Funaria hygrometrica</i> Hedw.	+
<i>Funaria muhlenbergii</i> Turn	+
<i>Funaria pulchella</i> Philib.	+
<i>Funariella curviseta</i> (Schwägr.) Sergio	+
<i>Gehebia gigantea</i> (Funck) Boul.	+
<i>Grimmia decipiens</i> (K.F.Schultz) Lindb.	+
<i>Grimmia donniana</i> Sm.	+
<i>Grimmia laevigata</i> (Brid.) Brid.	+
<i>Grimmia montana</i> BS	+
<i>Grimmia orbicularis</i> Br.	+
<i>Grimmia ovalis</i> (Hedw.) Lindb.	+
<i>Grimmia pulvinata</i> (Hedw.) Sm.	-
<i>Grimmia tergestina</i> Tommasini ex BSG	+
<i>Grimmia trichophylla</i> Grev.	+
<i>Gymnostomum aeruginosum</i> J. Sm.	+
<i>Gymnostomum calcareum</i> Nees & Hornsch.	+
<i>Gymnostomum lanceolatum</i> Cano, Ros & Guerra	+
<i>Gymnostomum viridulum</i> Brid.	+
<i>Gyroweisia reflexa</i> (Brid.) Schimp.	+
<i>Gyroweisia tenuis</i> (Hedw.) Schimp.	+
<i>Habrodon perpusillus</i> (De Not.) Lindb.	+
<i>Hamatocaulis vernicosus</i> (Mitt.) Hedenas	+
<i>Haplocladium angustifolium</i> (Hampe & C.Muell.) Broth.	+
<i>Haplocladium microphyllum</i> (Hedw.) Broth.	+
<i>Hedwigia ciliata</i> (Hedw.) Ehrh. ex P. Beauv.	+
<i>Herzogiella seligeri</i> (Brid.) Iwats.	+
<i>Heterocladium dimorphum</i> (Brid.) BSG	+
<i>Heterocladium heteropterum</i> (Brid.) BSG	+
<i>Homalia besseri</i> Lobar.	+
<i>Homalia lusitanica</i> Schimp.	+
<i>Homalia trichomanoides</i> (Hedw.) BSG	+
<i>Homalothecium aureum</i> (Lag. Ex Spruce) Robins	+
<i>Homalothecium geheebei</i> (Milde) K. Wigh	+
<i>Homalothecium lutescens</i> (Hedw.) Robins	+
<i>Homalothecium philipeanum</i> (Spruce) BSG	+
<i>Homalothecium sericeum</i> (Hedw.) BSG	+
<i>Homomallium incurvatum</i> (Schrader ex Brid.) Loeske	+
<i>Hookeria lucens</i> (Hedw.) Sm.	+
<i>Hygrohypnum luridum</i> (Hedw.) Jenn.	+
<i>Hylocomium brevirostre</i> (Brid.) BSG	+
<i>Hylocomium splendens</i> (Hedw.) BSG	+
<i>Hymenostylium recurvirostrum</i> (Hedw.) Dix.	+
<i>Hypnum bambergeri</i> Schimp.	+

Table 1. Continued.

<i>Hypnum cupressiforme</i> Hedw.	+
<i>Hypnum fertile</i> Sendt.	+
<i>Hypnum imponens</i> Hedw.	+
<i>Hypnum jutlandicum</i> Holmen & Wrancke	+
<i>Hypnum pallescens</i> (Hedw.) P. Beauv.	+
<i>Hypnum revolutum</i> (Mitt.) Lindb.	+
<i>Hypnum vaucherii</i> Lesq.	+
<i>Isopterygiopsis pulchella</i> (Hedw.) Iwats.	+
<i>Isothecium alopecuroides</i> (Dubois.) Isov.	+
<i>Isothecium myosuroides</i> Brid.	+
<i>Leptobarbula berica</i> (De Not.) Schimp	+
<i>Leptobryum pyriforme</i> (Hedw.) Wils.	+
<i>Leptodon smithii</i> (Hedw.) Web. & Mohr	+
<i>Lescurea mutabilis</i> (Brid.) Lindb. ex I. Hag.	+
<i>Leskea polycarpa</i> Hedw.	+
<i>Leucobryum glaucum</i> (Hedw.) Angstr.	+
<i>Lucobryum juniperoides</i> (Brid.) C. Muell.	-
<i>Leucodon sciuroides</i> (Hedw.) Schwägr.	+
<i>Meesia uliginosa</i> Hedw.	+
<i>Metaneckera menziesii</i> (Hook. Ex Drumm.) Steere	+
<i>Mnium ambiguum</i> H. Muell.	+
<i>Mnium hornum</i> Hedw.	+
<i>Mnium marginatum</i> (Dicks.) P. Beauv.	+
<i>Mnium spinulosum</i> BSG	+
<i>Mnium stellare</i> Hedw.	+
<i>Mnium thomasonii</i> Schimp.	+
<i>Myurella julacea</i> (Schwaegr.) BSG	+
<i>Neckera complanata</i> (Hedw.) Hueb.	+
<i>Neckera crispa</i> Hedw.	+
<i>Neckera pennata</i> Hedw.	+
<i>Neckera pumila</i> Hedw.	+
<i>Oncophorus virens</i> (Hedw.) Brid.	+
<i>Orthothecium intricatum</i> (C. Hartm.) BSG	+
<i>Orthothecium rufescens</i> (Schwaegr.) BSG	+
<i>Orthotrichum acuminatum</i> Philib.	+
<i>Orthotrichum affine</i> Brid.	+
<i>Orthotrichum anomalum</i> Hedw.	+
<i>Orthotrichum cupulatum</i> Brid.	+
<i>Orthotrichum diaphanum</i> Brid.	+
<i>Orthotrichum lyellii</i> Hook. & Tayl.	+
<i>Orthotrichum microcarpum</i> De Not.	+
<i>Orthotrichum obtusifolium</i> Brid.	+
<i>Orthotrichum pallens</i> Br. ex Brid.	+
<i>Orthotrichum patens</i> Br. ex Brid.	+
<i>Orthotrichum punilum</i> Sw.	+
<i>Orthotrichum rupestre</i> Schleicher	+
<i>Orthotrichum scanicum</i> Groenv.	+
<i>Orthotrichum schimperi</i> Hammar	+
<i>Orthotrichum speciosum</i> Nees	+
<i>Orthotrichum stellatum</i> Brid.	+
<i>Orthotrichum stramineum</i> Hornsch. ex Brid.	+
<i>Orthotrichum striatum</i> Hedw.	+
<i>Orthotrichum tenellum</i> Br. ex Brid.	+

Table 1. Continued.

<i>Palustriella commutata</i> (Hedw.) Ochyra	+
<i>Paraleucobryum longifolium</i> (Hedw.) Loeske	+
<i>Paraleucobryum sauteri</i> (Schimp.) Loeske	+
<i>Phascum curvicolle</i> Hedw.	+
<i>Phascum cuspidatum</i> Hedw.	+
<i>Phascum floerkeanum</i> Web. & Mohr.	+
<i>Phascum piliferum</i> Hedw.	+
<i>Philonotis caespitosa</i> Jur.	+
<i>Philonotis calcrea</i> (BS) Schimp.	+
<i>Philonotis fontana</i> (Hedw.) Brid.	+
<i>Philonotis tomentella</i> Molendo ex Lor.	+
<i>Physcomitrium pyriforme</i> (Hedw.) Brid.	+
<i>Plagiobryum zieri</i> (Hedw.) Lindb	+
<i>Plagiomnium affine</i> (Hedw.) T. Kop.	+
<i>Plagiomnium cuspidatum</i> (Hedw.) T. Kop.	+
<i>Plagiomnium elatum</i> (BS) T. Kop.	+
<i>Plagiomnium medium</i> (BS) T. Kop.	+
<i>Plagiomnium rostratum</i> (Schrad.) T. Kop.	+
<i>Plagiomnium undulatum</i> (Hedw.) T. Kop.	+
<i>Plagiopus oederiana</i> (Sw.) Crum. & Anders.	+
<i>Plagiothecium cavifolium</i> (Brid.) Iwats	+
<i>Plagiothecium denticulatum</i> (Hedw.) BSG	+
<i>Plagiothecium undulatum</i> (Hedw.) BSG	+
<i>Platydycya jungermannioides</i> (Brid.) Crum	+
<i>Platygirium repens</i> (Brid.) BSG	+
<i>Pleuridium acuminatum</i> Lindb.	+
<i>Pleuridium palustre</i> (BS) BSG	+
<i>Pleuridium subulatum</i> (Hedw.) Rabenh.	+
<i>Pleurochaete squarrosa</i> (Brid.) Lindb.	-
<i>Pleurozium schreberi</i> (Brid.) Mitt.	+
<i>Pogonatum aloides</i> (Hedw.) P. Beauv.	+
<i>Pogonatum nanum</i> (Hedw.) P. Beauv.	+
<i>Pogonatum urnigerum</i> (Hedw.) P. Beauv.	+
<i>Pohlia bulbifera</i> (Warnst.) Warnst.	++
<i>Pohlia cruda</i> (Hedw.) Lindb.	+
<i>Pohlia elongata</i> Hedw.	+
<i>Pohlia melanodon</i> (Brid.) Shaw	+
<i>Pohlia nutans</i> (Hedw.) Lindb.	+
<i>Pohlia wahlenbergii</i> (Web. & Mohr) Andrews	+
<i>Polytrichum alpinum</i> Hedw.	+
<i>Polytrichum commune</i> Hedw.	+
<i>Polytrichum formosum</i> Hedw.	+
<i>Polytrichum juniperinum</i> Hedw.	+
<i>Polytrichum longisetum</i> Brid.	+
<i>Polytrichum perigoniale</i> Michx.	+
<i>Polytrichum piliferum</i> Hedw.	+
<i>Polytrichum strictum</i> Menzies ex Brid.	+
<i>Pottia bryoides</i> (Dicks.) Mitt.	+
<i>Pottia caespitosa</i> (Bruch ex Brid.) C. Muell.	+
<i>Pottia commutata</i> Limpr.	+
<i>Pottia crinita</i> Wils. ex BSG	+
<i>Pottia davalliana</i> (Sm.) C. Jensen	+
<i>Pottia intermedia</i> (Turn.) Fuernr.	+

Table 1. Continued.

<i>Pottia lanceolata</i> (Hedw.) C. Muell.	+
<i>Pottia recta</i> (With.) Mitt.	+
<i>Pottia starckeana</i> (Hedw.) C. Muell.	+
<i>Pottia truncata</i> (Hedw.) BS	+
<i>Pseudephemerum nitidum</i> (Hedw.) Reim.	+
<i>Pseudocalliergon trifarium</i> (Web. & Mohr) Loeske	+
<i>Pseudocrossidium hornschuchianum</i> (K. F. Schultz) Zander	+
<i>Pseudocrossidium revolutum</i> (Brid.) Zander	+
<i>Pseudoleskea incurvata</i> (Hedw.) Loeske	+
<i>Pseudoleskea saviana</i> (De Not.) Latzel	+
<i>Pseudoleskeella catenulata</i> (Brid. ex Schrad.) Kindb.	+
<i>Pseudoleskeella nervosa</i>	+
<i>Pseudotaxiphyllum elegans</i> (Brid.) Iwats.	+
<i>Pterogonium gracile</i> (Hedw.) Sm.	+
<i>Pterygoneurum ovatum</i> (Hedw.) Dix	+
<i>Ptilium crista-castrensis</i> (Hedw.) De Not.	+
<i>Ptychodium plicatum</i> (Web. & Mohr) Schimp.	+
<i>Ptychomitrium polyphyllum</i> (Sw.) BS	+
<i>Pylaisia polyantha</i> (Hedw.) Schimp	+
<i>Racomitrium aciculare</i> (Hedw.) Brid.	+
<i>Racomitrium aquaticum</i> (Brid. ex Schrad.) Brid.	+
<i>Racomitrium canescens</i> (Hedw. ex Hedw.) Brid.	-
<i>Racomitrium heterostichum</i> (Hedw. ex Hedw.) Brid	+
<i>Rhizomnium punctatum</i> (Hedw.) T. Kop.	+
<i>Rhodobryum ontariense</i> (Kindb.) Kindb.	+
<i>Rhodobryum roseum</i> (Hedw.) Limpr	+
<i>Rhynchostegiella curviseta</i> (Brid.) Limpr.	+
<i>Rhynchostegiella litorea</i> (De Not.) Limpr.	+
<i>Rhynchostegiella teesdalei</i> (BS) Limpr.	++
<i>Rhynchostegiella tenella</i> (Dicks.) Limpr.	+
<i>Rhynchostegium confertum</i> (Dicks.) Schimp.	+
<i>Rhynchostegium megapolitanum</i> (Blandow ex Web. & Mohr) BSG	+
<i>Rhynchostegium murale</i> (Hedw.) BSG	+
<i>Rhynchostegium riparioides</i> (Hedw.) C. Jensen	+
<i>Rhynchostegium rotundifolium</i> (Scop. ex Brid.) BSG	
<i>Rhytidadelphus loreus</i> (Hedw.) Warnst.	+
<i>Rhytidadelphus squarrosum</i> (Hedw.) Warnst.	+
<i>Rhytidadelphus triquetrus</i> (Hedw.) Warnst.	+
<i>Rhytidium rugosum</i> (Hedw.) Kindb.	+
<i>Saelania glaucescens</i> (Hedw.) Broth.	+
<i>Sanionia uncinata</i> (Hedw.) Loeske	+
<i>Schistidium apocarpum</i> (Hedw.) BS	+
<i>Schistidium atrofuscum</i> (Schimp.) Limpr.	+
<i>Schistidium confertum</i> (Funck) Bruck & Schimp.	+
<i>Schistidium rivulare</i> (Brid.) Podp.	+
<i>Scleropodium purum</i> (Hedw.) Limpr.	+
<i>Scleropodium touretii</i> (Brid.) L. Koch	-
<i>Scorpidium scorpioides</i> (Hedw.) Limpr.	+
<i>Scorpiurium circinatum</i> (Brid.) Fleischer & Loeske	+
<i>Scorpiurium sendtneri</i> (Schimp.) Fleischer	+

Table 1. Continued.

<i>Seligeria acutifolia</i> Lindb.	+
<i>Seligeria donniana</i> (Sm.) C. Muell.	+
<i>Seligeria pusilla</i> (Hedw.) BSG	+
<i>Seligeria recurvata</i> (Hedw.) BSG	+
<i>Sematophyllum substrumulosum</i> (Hampe ex C. Muell.) Britt.	+
<i>Sphagnum angustifolium</i> (Russow ex Russow) C. Jensen	+
<i>Sphagnum balticum</i> (Russ.) Russ. ex. C. Jens var. <i>ruppinense</i> (Warnst.) Pilous	(++)
<i>Sphagnum capillifolium</i> (Ehrh.) Hedw. var. <i>tenerum</i> (Sull. & Lesq. ex Sull.) Nyh.	+
<i>Sphagnum centrale</i> C. E. O. Jens.	+
<i>Sphagnum compactum</i> DC. Ex Lam. & DC.	+
<i>Sphagnum contortum</i> K. F. Schultz	+
<i>Sphagnum cuspidatum</i> Ehrh. ex. Hoffm.	+
<i>Sphagnum denticulatum</i> Brid.	+
<i>Sphagnum fallax</i> (Klinggr.) Klinggr.	+
<i>Sphagnum fimbriatum</i> Wilson ex Wilson & J. D. Hooker	+
<i>Sphagnum flexuosum</i> Dozy & Molk.	+
<i>Sphagnum girgensohnii</i> Russ.	+
<i>Sphagnum obtusatum</i> Warnst.	+
<i>Sphagnum palustre</i> L.	+
<i>Sphagnum papillosum</i> Lindb.	+
<i>Sphagnum quinquefarium</i> (Lindb. ex Braithw.) Warnst.	+
<i>Sphagnum recurvum</i> P. Beauv.	+
<i>Sphagnum rubellum</i> Wills.	+
<i>Sphagnum russowii</i> Warnst.	+
<i>Sphagnum squarrosum</i> Crome	+
<i>Sphagnum subnitens</i> Russow & Warnst.	+
<i>Sphagnum subsecundum</i> Nees var. <i>inundatum</i> (Russ.) C. Jens.	+
var. <i>contortum</i> (Schultz.) Huebener var. <i>rufescens</i> (Nees. ex. Hornschuch.)	+
Huebener	+
<i>Sphagnum warnstorffii</i> Russ.	+
<i>Syntrichia intermedia</i> Brid.	+
<i>Syntrichia laevipila</i> Brid.	+
<i>Syntrichia laevipiliformis</i> (De Not.) Amann	+
<i>Syntrichia latifolia</i> (Br. ex C. Hartm.) Hueb.	+
<i>Syntrichia pagorum</i> (Milde) Amann	+
<i>Syntrichia papillosa</i> (Wills. ex Spruce) Jur.	+
<i>Syntrichia ruralis</i> (Hedw.) Web. & Mohr	-
<i>Syntrichia virescens</i> (De Not.) Boros	+
<i>Taxiphyllum wissgrillii</i> (Garov.) Wijk & Marg.	+
<i>Tetraphis pellucida</i> Hedw.	+
<i>Thamnobryum alopecurum</i> (Hedw.) Gangule	+
<i>Thuidium abietinum</i> (Hedw.) BSG	+
<i>Thuidium delicatulum</i> (Hedw.) BSG	+
<i>Thuidium philibertii</i> Limpr.	+
<i>Thuidium recognitum</i> (Hedw.) Lindb.	+

Table 1. Continued.

<i>Thuidium tamariscinum</i> (Hedw.) BS	+
<i>Timmia bavarica</i> Hessl.	+
<i>Timmia norvegica</i> Zetterstedt	+
<i>Timmiella anomala</i> (BS) Limpr.	+
<i>Tortella flavovirens</i> (Br.) Broth.	+
<i>Tortella humilis</i> (Hedw.) Jenn.	+
<i>Tortella inclinata</i> (Hedw. f.) Limpr.	+
<i>Tortella inflexa</i> (Br.) Broth.	+
<i>Tortella nitida</i> (Lindb.) Broth	-
<i>Tortella tortuosa</i> (Hedw.) Limpr.	-
<i>Tortula atrovirens</i> (Smith) Lindb.	+
<i>Tortula canescens</i> Mont.	+
<i>Tortula cuneifolia</i> (Dicks.) Turn.	+
<i>Tortula inermis</i> (Brid.) Mont.	+
<i>Tortula marginata</i> (BS) Spruce	+
<i>Tortula muralis</i> Hedw.	-
<i>Tortula subulata</i> Hedw.	+
<i>Trichostomum brachydontium</i> Br.	+
<i>Trichostomum crispulum</i> Br.	-
<i>Ulota bruchii</i> Hornsch. ex Brid.	+
<i>Ulota coarctata</i> (P. Beauv.) Hammar	+
<i>Ulota crispa</i> (Hedw.) Brid.	+
<i>Ulota hutchinsiae</i> (Sm.) Hammar	+
<i>Warnstorffia exannulata</i> (BSG) Loeske	+
<i>Warnstorffia fluitans</i> (Hedw.) Loeske	+
<i>Weissia brachycarpa</i> (Nees & Hornsch.) Jur.	+
<i>Weissia condensa</i> (Voit) Lindb.	+
<i>Weissia controversa</i> Hedw.	+
<i>Weissia levieri</i> (Limpr.) Kindb.	+
<i>Weissia longifolia</i> Mitt.	+
<i>Weissia rutilans</i> (Hedw.) Lindb.	+
<i>Weissia triumphans</i> (De Not.) M.O.Hill	+
<i>Weissia wimmeriana</i> (Sendt.) BSG	+
<i>Zygodon forsteri</i> (Dicks.) Mitt.	+
<i>Zygodon viridissimus</i> (Dicks.) Brid.	+

pus (Brid.) Lindb.

Entostodon attenuatus (Dicks.) Bryhn. = *Funaria attenuata*

Entostodon obtusus (Hedw.) Lindb. = *Funaria obtusa*
Eurhynchium crassinervium (Wils. Ex Hook.) Schimp. =

Cirriphyllum crassinervium

Geheebia gigantea (Funck) Boul. = *Didymodon giganteus* (Funck) Jur.

Hymenostomum tortile Schwgr. = *Weissia condensa* (Voit.) Lindb.

Orthotrichum saxatile Wood. = *Orthotrichum anomalum* Hedw.

Plagiothecium cavifolium (Brid.) Iwats = *Plagiothecium roseanum* BSG

Pleuridium acuminatum Lindb. = *Pleuridium subulatum*

- (Hudes.) Rabenh. et BSG
Pleuridium palustre (BS) BSG = *Sporledera palustris* (BS) Hampe
Pleuridium subulatum (Hedw.) Rabenh. = *Pleuridium alternifolium* (Kaulf.) Rabenh.
Pohlia cruda (Hedw.) Lindb. = *Webera cruda* (Hedw.) Br.
Pohlia melanodon (Brid.) Shaw = *Mniobryum carneum* (Brid.) Limpr.
Pohlia melanodon (Brid.) Shaw = *Mniobryum delicatulum* (Hedw.) Dix.
Pohlia nutans (Hedw.) Lindb. = *Webera nutans* Hedw.
Polytrichum longisetum Brid. = *Polytrichum gracile* Dicks.
Polytrichum strictum Menzies ex Brid. = *Polytrichum juniperinum* var. *alpinum* Schimp.
Pottia caespitosa (Bruch ex Brid.) C. Muell. = *Trichostomum caespitosum* (Brid.) Jur.
Pottia truncata (Hedw.) BS = *Pottia truncatula* (L.) Lindb.
Pseudocrossidium hornschuchianum (K. F. Schultz) Zander = *Barbula horschuchiana* K. F. Schultz
Pseudocrossidium revolutum (Brid.) Zander = *Barbula revoluta* Brid.
Pseudoleskeia saviana (De Not.) Latzel = *Pseudoleskeia illyrica* Glow.
Pterogonium gracile (Hedw.) Sm. = *Pterogonium ornithopodooides* (Huds.) Lindb.
Rhizomnium punctatum (Hedw.) T. Kop. = *Mnium punctatum* Hedw.
Rhynchostegium ripariooides (Hedw.) C. Jensen = *Platyhypnidium ripariooides* (Hedw.) Dix
Rhynchostegium ripariooides (Hedw.) C. Jensen = *Platyhypnidium rusciforme* (BSG) Fleischer
Saelania glaucescens (Hedw.) Broth. = *Saelania caesia* (Vill.) Lindb.
Sanionia uncinata (Hedw.) Loeske = *Drepanocladus uncinatus* (Hedw.) Warnst.
Schistidium apocarpum (Hedw.) BS = *Grimmia apocarpa* Hedw.
Scleropodium purum (Hedw.) Limpr. = *Pseudoscleropodium purum* (Hedw.) Fleischer
Scleropodium touretii (Brid.) L. Koch = *Scleropodium illecebrum* (Schwägr.) BSG
Sphagnum amblyphyllum Russ. = *Sphagnum recurvum* P. Beauv.
Sphagnum auriculatum Schimpr. = *Sphagnum subsecundum* Nees var. *inundatum* (Russ.) C. Jens.
Sphagnum compactum DC. Ex Lam. & DC. = *Sphagnum rigidum* (Nees & Hornsch.) Schimp.
Sphagnum contortum Schultz. = *Sphagnum subsecundum* Nees var. *contortum* (Schultz.) Huebener
Sphagnum crassicladum Warnst. = *Sphagnum subsecundum* Nees var. *rufescens* (Nees. ex Hornschuch.) Huebener
Sphagnum inundatum Russ. = *Sphagnum subsecundum* Nees var. *inundatum* (Russ.) C. Jens.
Sphagnum platyphyllum (Sul.. Lindb) = *Sphagnum subsecundum* Nees var. *platyphyllum* (Lindb. ex Braithw.) Cardot
Sphagnum plumulosum Rüll = *Sphagnum subnitens* Russow & Warnst.
Sphagnum rufescens Br. Ger. = *Sphagnum subsecundum* Nees var. *rufescens* (Nees. ex Hornschuch.) Huebener
Sphagnum ruppiniense Warnst. = *Sphagnum balticum* var. *ruppiniense* (Warnst.) Pilous
Syntrichia fragilis (Taylor) Ochyra = *Tortula alpina* (BSG) Br.
Syntrichia intermedia Brid. = *Tortula montana* Nees
Syntrichia laevipiliformis (De Not.) Amann = *Tortula laevipiliformis* (De Not.) Limpr.
Syntrichia latifolia (Br. ex C. Hartm.) Hueb. = *Tortula latifolia* Br. ex C. Hartm.
Syntrichia papillosa (Wills. ex Spruce) Jur. = *Tortula papillosa* Wils.
Syntrichia virescens (De Not.) Boros = *Syntrichia pulvinata* (Jur.) Jur.
Taxiphyllum wissgrillii (Garov.) Wijk & Marg. = *Isopterygium depressum* (Br.) Mitt.
Tetraphis pellucida Hedw. = *Georgia pellucida* (Hedw.) Rabenh.
Thamnobryum alopecurum (Hedw.) Gangule = *Thamnium alopecurum* (Hedw.) BSG
Tortella humilis (Hedw.) Jenn. = *Tortella caespitosa* (Schwägr.) Limpr.
Tortula marginata (BS) Spruce = *Tortula montenegrina* (Breidl. & Szysl.) Broth.
Tortula subulata Hedw. = *Syntrichia subulata* (Hedw.) Web. & Mohr
Trichostomum mutabile Bruch. = *Trichostomum brachydontium*
Uloa bruchii Hornsch. ex Brid. = *Uloa crispa* var. *norvegica* (Groenv.) AJE Smith
Uloa coarctata (P. Beauv.) Hammar = *Uloa ludwigii* Brid.
Uloa hutchinsiae (Sm.) Hammar = *Uloota americana* (P. Beauv.) Mitt.
Warnstorffia exannulata (BSG) Loeske = *Drepanocladus exannulatus* (BSG) Warnst.
Warnstorffia fluitans (Hedw.) Loeske = *Drepanocladus*

fluitans (Hedw.) Loeske
Weissia brachycarpa (Nees & Hornsch.) Jur. =
Hymenostomum microstomum (Hedw.) R. Br.
Weissia condensa (Voit.) Lindb. = *Hymenostomum tortile* (Schwägr.) BSG
Weissia controversa Hedw. = *Weissia crispata* (Nees & Hornsch.) Jur.
Weissia controversa Hedw. = *Weissia fallax* Sehlm
Weissia controversa Hedw. = *Weissia viridula* BSG
Weissia levieri (Limpr.) Kindb. = *Astomum levieri* Limpr.
Weissia triumphans (De Not.) M.O. Hill =
Trichostomum triumphans De Not.

CONCLUSION

The mosses of Croatia to date number 476 species. There are 28 species of special pan-European interest from the standpoint of conservation: *Amblystegium saxatile* (R), *Anomodon rostratus* (R), *Aschisma carniolicum* (R), *Brachythecium geheebei* (R), *Bryohaplocladium microphyllum* (RT), *Bryum neodamense* (V), *Buxbaumia viridis* (V), *Callicladium haldanianum* (RT), *Campylium elodes* (RT), *Campylostelium saxicola* (R), *Dicranum viride* (V), *Ephemerum cohaerens* (E), *Ephemerum recurvifolium* (R), *Fissidens kosanini* (K), *Fissidens ovatifolius* (R), *Funariella curviseta* (RT), *Hypnum fertile* (RT), *Neckera pennata* (V), *Orthotrichum patens* (T), *Orthotrichum stellatum* (R), *Paraleucobryum sauteri* (R), *Phascum floerkeanum* (K), *Pleuridium palustre* (R), *Pseudoleske saviana* (RT), *Ptychomitrium polyphylum* (NT but endemic to Europe), *Trochobryum carniolicum* (E and endemic to Europe), *Ulota bruchi* (NT but endemic in Europe) and *Zygodon forsteri* (V).

The main threats and their causes as stated in Šabolić (2003) for Croatia and Šaboljović et al. (2001) for neighboring regions can be summarized as follows: lack of knowledge about hepaticas and their biology and ecology, overpopulation in some zones of great bryological interest (Adriatic Coast), use and abuse of different ecosystems (e.g., old growth forests), habitat fragmentation, inappropriate forestry practices, unsustainable agriculture, water, and air pollution.

Increase in the number of hepatic species of Croatia can be expected with reviving further field investigation and revision of herbaria.

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На основу литературних и доступних хербаријумских података сачињен је преглед маховина Хрватске. До сада је за територију Хрватске познато 476 таксона

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