Checklist of the brambles (*Rubus* L. subgenus *Rubus,* Rosaceae) of Luxembourg

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Helminger, T., 2009. Checklist of the brambles (*Rubus* L. subgenus *Rubus,* Rosaceae) of Luxembourg. *Bulletin de la Société des naturalistes luxembourgeois* 110: 53-67.

Abstract. A list of 72 taxa of the genus *Rubus* L. subgenus *Rubus* (Rosaceae) is presented with their distribution in Luxembourg. 59 taxa belong to sect. *Rubus* and 13 taxa to sect. *Corylifolii* Lindley. For each taxon either the specimens of the author's herbarium are listed or references to recently published, detailed descriptions of observation or collecting locations are given. The listed specimens are deposited in the Herbarium of the National museum of natural history in Luxembourg (LUX) unless stated otherwise.

1. Introduction

A first list of the bramble taxa (*Rubus* L. subgenus *Rubus)* of Luxembourg had a total count of 38 taxa (Helminger 1992). It showed the results of one year of collecting throughout the country and displayed many taxa with a broad distribution in large parts of Europe. In 1994 another 7 taxa were added to that list (Colling et al. 1994). All of these taxa were included in the revision of the genus *Rubus* for Hegi - Flora von Mitteleuropa (Weber 1995).

Since then a number of taxa with ranges extending to Luxembourg have been newly described, validated or synonymised in the works of Weber (1996, 2000), Matzke-Hajek (1995, 1998, 2004a, 2004b, 2006) and Matzke-Hajek & Weber (1999). Some of these taxa have already been included in the treatment of *Rubus* in the latest issue of the 'Nouvelle Flore' (Lambinon et al. 2004), where they are mainly listed as 'other similar taxa'. However, as the ranges given there are too broad, it is not possible to tell if a particular taxon occurs in Luxembourg. The Red List of vascular plants of Luxembourg (Colling 2005) has 52 taxa of the subgenus *Rubus* but does not give any detailed references or specimens for the listed taxa.

The aim of this checklist is to give a compilation of all the taxa of *Rubus* L. subgenus *Rubus*, with wide- or at least regional-scale ranges, whose occurrence in Luxembourg is currently documented either by specimens in the authors herbarium, in other herbaria or by recently published, detailed descriptions of observation or collecting locations.

2. Materials and methods

Unless stated otherwise, the listed specimens have been collected by the author, mainly in the years 1991 to 1993 during a systematic inventory of the brambles of Luxembourg (Helminger 1992). They are deposited in the Herbarium of the National museum of natural history in Luxembourg (LUX). Of the more than 900 specimens collected, some 550 could be named until now.

The specimens are identified by the author's collection number, which include the collection date in the format yymmdd (yy = two digit year, mm = two digit month, dd = two digit day), followed by a period and a two digit running number.

The location of the collecting sites is given with an accuracy of one square kilometer in the Gauss-Luxembourg grid system (Diederich 1991) and in the IFBL grid system extended to Luxembourg (Reichling 1958). Cardinal directions are abbreviated as N - north, S - south, E - east and W – west.

The taxonomic identity of all newly found taxa was verified with the assistance of G. Matzke-Hajek and H.E. Weber, both eminent

specialists of this complex taxonomic group. Further collections were then identified by comparison with these reference specimens and have been checked by G. Matzke-Hajek.

3. List of taxa

The taxa are listed in alphabetical order. For details on the distribution in Luxembourg and the systematic position of the taxa within the genus see Table 1 and Fig. 1.

* = Taxa that figure in the Red List of Vascular Plants of Luxembourg (Colling 2005).
() = Reference to the position of the taxon in Table 1.

* ***Rubus adornatus*** P.J. Müller ex Wirtgen (26)

Specimens: Dasbourg Pont, Kreitersbierg (75/123; J8.45.34), 930818.02 - Nocher, Aeschbech (64/111; K8.22.43), 910821.05 - Haller, Haber (89/97; L8.18.24), 920810.13 - Steinheim, Gefallelayen (102/97; L9.14.13), 920818.02 - Steinheim, N Layen (102/97; L9.14.13), 910806.07 - Goeblange, Haereboesch (65/83; L8.42.44), 910802.08 - Fischbach Mersch, Seitert, Belschlaed (81/90; L8.36.22), 920710.07 - Fischbach Mersch, Schlammeboesch, Waldweg W der Strasse an der scharfen Kurve (80/88), 950817.2 - Lellig, W Weiler (100/87; L9.33.43), 920805.13 - Goeblange, Hiemerboesch (66/82; L8.53.11), 921005.03 - Garnich, Hanner Gemengenheck (64/78; M8.12.21), 920804.04 - Crauthem, Heid (79/65; M8.46.14), 920917.08.

Rubus ambulans Matzke-Hajek (21)

Matzke-Hajek (2004a) has clarified the distinction of this taxon from *R. gremlii* Focke. The specimens from Luxembourg are listed with the description of the species.

* ***Rubus arduennensis*** Libert ex Lejeune (9)

Specimens listed by Helminger (1992).

* ***Rubus armeniacus*** Focke (10)

Specimens listed by Helminger (1992).

* ***Rubus baruthicus*** H.E. Weber (66)

Specimens: Ettelbruck, N15, S Lopert (73/101; K8.54.24), 910716.05 - Finsterthal, Beisener Weier (71/91; L8.24.34), 920713.14 - Claushof, N Buurggrouf (73/86; L8.44.22), 921005.04 - Goeblange, SW Rockeldriesch (66/82; L8.53.11), 920804.07 - Helmsange, W Quantebierg (78/80; L8.56.31), 920702.01 - Niederdonven, N Schaed (98/78; M9.13.11), 921008.07 - Rolling, Krounebierg (89/68; M8.38.42), 920807.03.

* ***Rubus bertramii*** G. Braun (1)

3 specimens listed by Helminger (1992).

Other specimen: Niederfeulen, Staengigeboesch (71/103; K8.44.34), 920821.02.

* ***Rubus bifrons*** Vest (11)

Specimens listed by Helminger (1992).

* ***Rubus bonus-henricus*** Matzke-Hajek (52)

Two specimens from Luxembourg are listed by Matzke-Hajek (1995) with the description of the species.

Further specimens: Christnach, Val. Mandelbaach (87/92; L8.28.32), 930804.07 - Lellig, W Weiler (100/87; L9.33.43), 920805.12.

* ***Rubus caesius*** L. (72)

Specimens: Herheck, Ansbech, SW Hierheck (62/103; K8.42.33), 910912.09 - Lamadelaine, Tetelbierg, NW Tetelbierg (57/67; M7.38.44), 910725.02.

* ***Rubus camptostachys*** G. Braun (64)

Specimens listed by Helminger (1992).

****Rubus canescens*** DC. (25)

Specimens listed by Helminger (1992).

Rubus caninitergi H.E. Weber (45)

The specimens from Luxembourg are listed with the original description of the species (Weber 1996). The collection number of the specimen from Kaundorf is misspelled there. The correct collection number is 910912.35.

* ***Rubus condensatus*** P.J. Müller (36)

Colling et al. (1994) have published many locations from the Gutland (southern half of Luxembourg) where this species was observed, but without giving the reference to the herbarium specimens. Weber (1996) gives a detailed description of the taxon with a distribution map including Luxembourg.

He cites specimen 910723.12 from Reimberg, but with a misspelled location. The specimen list is repeated here.

Specimens: Eschette, N Millebierg (59/98; L8.11.12), 920827.05 - Reimberg, N Buchefeld (65/96; L8.12.42), 910723.12 - Beaufort, Bois de Kuesselt (90/100; K9.51.31), 920810.18 - Huensdorf, Maximeinerboesch (75/85; L8.45.14), 920713.09 - Fischbach Mersch, NE Breedschet (81/88; L8.36.42), 920710.17 - Altlinster, Haertgeslay (83/88; L8.37.32), 920708.04 - Bech Echternach, Hirzbierg (94/91; L9.22.33), 920805.06 - Goeblange, SW Rockeldriesch (66/82; L8.53.11), 920804.06 - Dippach, Halz (67/73; M8.23.14), 920812.02 - Hautcharage, Lamerbierg, Schack (60/71; M8.21.43), 910725.13.

Rubus constrictus P.J. Müller & Lefèvre (2)

Specimen: Remich, leg.: van de Beek, Nr. B791, deposited at the National Herbarium in Leiden (L) [data from Abraham van de Beek] (A. Kurtto pers. comm. Jun. 2009).

* ***Rubus cuspidatus*** P.J. Müller (69)

Specimens listed by Helminger (1992).

* ***Rubus dechenii*** Wirtgen (27)

The locations, mostly already published by Colling et al. (1994) but without reference to the specimens, are repeated here.

Specimens: Allerborn, N Feitsch (59/122; J8.51.12), 920916.03 - Merkholtz, N Carriere Telmt (65/114; K8.22.22), 920907.09 - Holzthum, E Lay (72/117; K8.14.23), 910823.11, 910823.12 - Merscheid Heiderscheid, Fuussekaul (66/104; K8.43.31), 920909.04 - Colmar Berg, NE Bongersboesch, Wandbroch am Bicheboesch (75/97; L8.15.14), 910827.13 - Broderbour, NE Naasse Bur (81/102; K8.56.22), 920730.07 - Christnach, Val. Mandelbaach (87/92; L8.28.32), 930804.06 - Consdorf, S Gebranteboesch (92/95; L9.11.43), 910805.03 - Finsterthal, Obenthalt, Heid (70/90; L8.34.11), 930802.01 - Kobenbour (90/90; L9.31.11), 930712.1 - Biwer, E Reitzegronn (93/85; L9.41.24), 910828.09 - Biergerkreiz, Denneboesch (75/79; L8.55.34), 930823.03 - Grunewald, Haedchen (79/81; L8.56.14), 920702.03 - Grunewald, Hansekreiz (79/81; L8.56.14), 920702.07.

Rubus delectus P.J. Müller & Wirtgen (70)

The specimens from Luxembourg are listed in the appendix to the detailed description of this taxon by Matzke-Hajek (1998).

* ***Rubus echinosepalus*** H.E. Weber (71)

Listed by Colling (2005) as *R. britannicus* W.M. Rogers, of which *R. echinosepalus* is considered to be a synonym by Lambinon et al. (2004). Specimens listed by Helminger (1992).

Additional specimens: Kobenbour (90/90; L9.31.11), 930712.2 - Schwebsange, Felsbierg (93/63; M9.41.44), 920807.10, 920807.09.

* ***Rubus eifeliensis*** Wirtgen (28)

Specimens listed by Helminger (1992).

Additional specimens: Vianden, Neklosbierg (80/111; K8.26.43), 950620.1 - Grunewald, S Haewe (80/81; L8.56.23), 920629.06.

* ***Rubus erubescens*** Wirtgen (46)

Specimen: Fischbach Mersch, N Seitert (79/89; L8.36.14), 910710.04.

Rubus flaccidus P.J. Müller (12)

Specimen: Bettel, leg.: van de Beek, Nr. B101 deposited at the National Herbarium in Leiden (L) [data from Abraham van de Beek] (A. Kurtto, pers. comm. Jun. 2009)

* ***Rubus flexuosus*** P.J. Müller & Lefèvre (47)

Specimens listed by Helminger (1992).

Other specimens: Kapenacker, Onerrit (94/78; M9.12.11), 921008.08 - Beyren, Schmitzdreisch (91/76; M9.11.32), 930730.01 - Rumelange, Rembur (68/58; N8.13.21), 920910.08.

* ***Rubus fuscus*** Weihe (48)

Specimens listed by Helminger (1992).

Other specimens: Reckange Mersch, Reckenerwald (72/88; L8.34.41), 910827.05 - Hautcharage, Lamerbierg, Schack (60/71; M8.21.43), 910725.10.

* ***Rubus grabowskii*** Weihe (13)

Specimens listed by Helminger (1992).

* ***Rubus gracilis*** J. & C. Presl (17)

Included in Colling (2005). Location already published by Colling et al. (1994) without reference to the specimen.

Specimen: Bridel, S du CR.181, près du réservoir (74/79; L8.55.33), 930823.04.

Rubus grossus H.E. Weber (62)

Weber (1995: 548) mentions one location in Luxembourg between Mompach and Lellig.

* ***Rubus hadracanthos*** G. Braun (61)

Specimens listed by Helminger (1992).

* ***Rubus hostilis*** P.J. Müller & Wirtgen (53)

Specimen: Ernster, W Seilsboesch (87/82; L8.58.12), 910816.10.

Rubus ignoratus H.E. Weber (57)

Specimens: Heiderscheid, W der N15 (64/106; K8.42.21), 910821.09 - Eschdorf, Ieschpelt (64/105; K8.42.23), 910821.16, 910821.17.

Rubus imbellis Matzke-Hajek (63)

One single specimen from Luxembourg is mentionned with the description of the species (Matzke-Hajek 1999).

* ***Rubus integribasis*** P.J. Müller ex Boulay (3)

Location already published by Colling et al. (1994), but without reference to the specimen.

Fischbach Mersch, Schlammeboesch (80/88; L8.36.41), 930802.04.

Rubus laciniatus Willd. (18)

This easily recognizable species is sometimes observed spreading near inhabited areas. No specimens in Luxembourg.

* ***Rubus langei*** Jensen ex Frid. & Gelert (19)

Specimens listed by Helminger (1992).

Rubus leucophaeus P.J. Müller (67)

Weber (2000) gives the reference of a specimen from the herbarium Weber collected in Luxembourg with the detailed description of this taxon.

* ***Rubus loehrii*** Wirtgen (49)

Specimens listed by Helminger (1992).

Further specimens: Oberglabach, Peffeschbierg (78/94; L8.26.11), 920803.14 - Oberglabach, Hierebierg (77/93; L8.25.24), 920803.15 - Dippach, Halz (67/73; M8.23.14), 920812.01 - Beyren, Schmitzdreisch (91/76; M9.11.32), 930730.03 - Lasauvage, Carrière Lasauvage (56/64; M7.48.41), 950829.7, 950829.9.

Rubus macrodontus P.J. Müller (50)

Matzke-Hajek & Weber (1999) have listed the specimens from Luxembourg with the detailed description of the species.

* ***Rubus macrophyllus*** Weihe & Nees (22)

Colling et al. (1994) have already published two of these locations, without reference to the specimens.

Girst, Aechels (103/93; L9.24.14), 920818.06 - Mondercange, E Aesing (65/67; M8.32.44), 920910.10 - Crauthem, Heid (79/65; M8.46.14), 950819.07.

* ***Rubus melanoxylon*** P.J. Müller & Wirtgen (37)

Specimens listed by Helminger (1992).

* ***Rubus micans*** Godron & Grenier (38)

Specimen: Ehlange, SE Riederboesch (70/68; M8.34.31), 910916.18.

* ***Rubus montanus*** Libert ex Lejeune (14)

Specimens listed by Helminger (1992).

Rubus negatus A. Beek (58)

The distribution area given in the original description of the taxon (van de Beek 2005) extends southward to Luxembourg and the German Rhineland. It was recorded by A. van de Beek near Bettel (A. Kurtto pers. comm. Jan. 2009)

* ***Rubus nemorosus*** Hayne & Willd. (65)

Specimens listed by Helminger (1992).

Rubus nessensis W. Hall ssp. ***nessensis*** (4)

Only ssp. *scissoides* H.E. Weber included in Colling (2005), specimens listed by Helminger (1992).

* ***Rubus nessensis*** W. Hall ssp. ***scissoides*** H.E. Weber (5)

The specimen from Hierheck was first considered to belong to *R. nessensis* (Helminger 1992).

Specimens: Allerborn, Millebierg (58/121; J8.51.13), 920916.01 - Herheck, Ansbech, SW Hierheck (62/103; K8.42.33), 910912.05.

* ***Rubus neumannianus*** H.E. Weber & Vannerom (23)

Specimens listed by Helminger (1992).

Further specimens (from the Gutland): Eppeldorf, Elteschmuer, Esselbur (86/100; K8.58.31), 920922.03 - Findel, Hanner Findel (81/77; M8.16.24), 920707.03.

* ***Rubus oblongifolius*** P.J. Müller & Wirtgen (29)

Specimens listed by Helminger (1992).

* ***Rubus omalodontus*** P.J. Müller & Wirtgen (30)

Two specimens listed by Helminger (1992).

Further specimens: Vianden, S Schank, Strassenrand (81/111; K8.26.44), 910808.13 - Beaufort, Bois de Kuesselt (90/100; K9.51.31), 920810.20 - Grunewald, Quantebierg, N Quantebierg, C.R.125, bne.358,4 (78/80; L8.56.31), 920702.02 - Grunewald, Haedchen (79/81; L8.56.14), 920702.06 - Grunewald, Beckerboesch, Croix de la femme morte (79/80; L8.56.32), 920701.08 - Rolling, Krounebierg (89/68; M8.38.42), 920807.08.

* ***Rubus oreades*** P.J. Müller & Wirtgen (59)

Location already published by Colling et al. (1994) without reference to the specimen.

Specimen: Biergerkreiz, Denneboesch (75/79; L8.55.34), 930823.01.

* ***Rubus orthostachys*** G. Braun (60)

Only one specimen listed by Helminger (1992).

Further specimens: Redange, Houneg, Reimerwé (58/91; L8.21.33), 921005.11 - Bertrange, S Houscht (69/74; M8.23.22), 910802.03 - Lasauvage, Carrière Lasauvage (56/64; M7.48.41), 950829.1, 950829.2 - Crauthem, Heid (79/65; M8.46.14), 920917.09.

* ***Rubus pannosus*** P.J. Müller & Wirtgen (31)

Specimens: Steinheim, Gefallelayen (102/97; L9.14.13), 920818.03 - Girst, Aechels (103/93; L9.24.14), 920818.07 - Beringen, Ieweschteboesch, Stielchen (77/91; L8.25.44), 920710.02, 920710.04.

* ***Rubus pedemontanus*** Pinkwart (54)

Specimens listed by Helminger (1992).

Further specimens (from the center and west of the country): Eschette, Millebierg, N (59/98; L8.11.12), 920827.04 - Reckange Barriere, Servais Boesch, Windbruch, N exp. (72/90; L8.34.21), 930715.02 - Huensdorf, Maximeinerboesch (75/85; L8.45.14), 920713.05.

Rubus pedica Matzke-Hajek (55)

The distribution area given in the original description of the taxon includes eastern Luxembourg (Matzke-Hajek 1998). The occurence given here is from the northwest of the country.

Specimens: Harlange, S Aschtert, E der Strasse (53/110; K7.37.22), 910912.22, 910912.26.

* ***Rubus perperus*** H.E. Weber (15)

Specimens: Claushof, Mierscherwald (74/87; L8.35.33), 910718.11 - Ernster, W Seilsboesch (87/82; L8.58.12), 910816.12.

* ***Rubus plicatus*** Weihe & Nees (6)

Included in Colling (2005) as *R. fruticosus* L., considered to be a synonym by Lambinon et al. (2004), specimens listed by Helminger (1992).

* ***Rubus praecox*** Bertoloni (16)

Specimens listed by Helminger (1992).

Rubus praestans H.E. Weber (39)

The locations, mostly already published by Colling et al. (1994) without reference to the specimens, are repeated here.

Eppeldorf, Hossenbierg (86/101; K8.58.13), 930804.03 - Eppeldorf, Elteschmuer, Esselbur (86/100; K8.58.31), 920922.01 - Blaschette, W Neiewe (79/83; L8.46.34), 920702.08 - Bourglinster, Ielzert Koppen (83/83; L8.47.34), 920914.04.

* ***Rubus pyramidalis*** Kaltenbach (32)

Specimens listed by Helminger (1992).

* ***Rubus radula*** Weihe (41)

Two specimens listed by Helminger (1992).

Further specimens: Merkholtz, N Carriere Telmt (65/114; K8.22.22), 920907.10 - Grevenmacher, Gebranntebierg (97/82; L9.52.22), 920825.04 - Schlewenhof, Berkeboesch (72/72;), 921005.01 - Rolling, Krounebierg (89/68; M8.38.42), 920807.04.

* ***Rubus raduloides*** (W.M. Rogers) Sudre (40)

Included in Colling (2005) as *R. raduliformis* (Sudre), considered to be a similar taxon by Lambinon et al. (2004). Collected in 1999 by H. Vannerom near Beckerich (L8.31.31) (Vannerom 2001 in litt.).

Specimen: Huensdorf, Maximeinerboesch (76/84; L8.45.41), 920713.10.

Rubus ripuaricus Matzke-Hajek (33)

The specimens had first been grouped under the working name "Fallschirm". The taxon has been described by Matzke-Hajek (1995) who confirmed the determination in 1998.

Specimens: Wahlhausen Dickt, Bollertsgronn (75/117; K8.15.14), 910820.09 - Hosingen, Dickt, NE Parking (75/117; K8.15.14), 920819.01.

* ***Rubus roberti*** Matzke-Hajek (42)

Following the description given by Matzke-Hajek (2006), the specimen listed by Helminger (1992) as *R. fimbrifolius* and by Colling (2005) as *R. fimbriifolius* must be referred to this taxon.

* ***Rubus rosaceus*** Weihe (56)

Specimens (from the north of Luxembourg) listed by Helminger (1992).

Further specimen (from the east of the country): Grevenmacher, Gebranntebierg (97/82; L9.52.22), 920825.05.

* ***Rubus rudis*** Weihe (43)

Specimens listed by Helminger (1992).

* ***Rubus saxicola*** P.J. Müller (44)

Specimens listed by Helminger (1992).

Further specimens (center and east of the country): Kehlen, Maasselter (71/81; L8.54.14), 930823.06 - Niederdonven, N Schaed (98/78; M9.13.11), 921008.04.

Rubus scabrosus P.J. Müller (68)

This taxon was collected and noted by the present author under the working name "*ouricus*". Only in 2004, Matzke-Hajek was able to clarify the taxonomy and synonymy of the taxon and listed the specimens from Luxembourg (Matzke-Hajek 2004b).

Rubus scissus W.C.R. Watson (7)

Specimen: Wahlhausen Dickt, Bollertsgronn (75/117; K8.15.14), 910820.11.

* ***Rubus sprengelii*** Weihe (24)

Specimens listed by Helminger (1992).

* ***Rubus steracanthos*** P.J. Müller ex Boulay (20)

One single specimen listed by Helminger (1992).

Further specimiens: Bigonville, Eilerucht (50/103; K7.47.33), 920909.08 - Holtz, Petz (52/97; L7.17.23), 920826.05, 920826.06 - Blaschette, Kuelent (79/84; L8.46.32), 920702.09 - Blaschette, voie romaine Klengelscheierhaff (79/84; L8.46.32), 920804.12.

* ***Rubus sulcatus*** Vest (8)

Two specimens listed by Helminger (1992).

Further specimens: Basbellain, Val. Klengelbaach, avec M. Meyer (65/133; J8.22.24), 920630.02 - Michelbuch, bois de Bischtert, Kreiz (70/98; L8.14.11), 920803.12 - Ernster, Wurzelwis (83/82; L8.57.12), 930907.03.

Rubus transvestitus Matzke-Hajek (51)

Matzke-Hajek (1995), together with the original description of this species, mentions, from his herbarium, one single specimen collected in Luxembourg.

Other specimen: Hivange, Reiskraut (62/73; M8.22.13), 920812.08.

* ***Rubus vestitus*** Weihe (34)

Specimens listed by Helminger (1992).

* ***Rubus viscosus*** Weihe ex Lejeune & Courtois (35)

Specimens listed by Helminger (1992).

Table 1: Distribution and systematic order of the taxa of the genus *Rubus* L. subgenus *Rubus* occurring in Luxembourg.

Number of specimens in the author's herbarium and total number of observations recorded by the author (in brackets). Abundance by region: (RR - very rare, R - rare, AR - quite rare, AC – quite common, C - common, CC - very common).

		Nr of specimens (observations)	Abundance Gutland (south)	Abundance Oesling (north)
	sectio *Rubus*			
	subsectio *Rubus* (sectio *Suberecti* Lindley)			
1	*Rubus bertramii* G. Braun	4 (5)		R
2	*Rubus constrictus* P.J. Müller & Lefèvre	1 (1)	RR	
3	*Rubus integribasis* P.J. Müller ex Boulay	1 (1)	RR	
4	*Rubus nessensis* W. Hall ssp. *nessensis*	5 (55)	C	CC
5	*Rubus nessensis* W. Hall ssp. *scissoides* H.E. Weber	2 (4)		R
6	*Rubus plicatus* Weihe & Nees	11 (63)	RR	CC
7	*Rubus scissus* W.C.R. Watson	1 (1)	RR	
8	*Rubus sulcatus* Vest	5 (7)	R	R
	subsectio *Hiemales* E.H. Krause			
	series *Discolores* (P.J. Müller) Focke			
9	*Rubus arduennensis* Libert ex Lejeune	13 (41)	C	CC
10	*Rubus armeniacus* Focke	6 (12)	C	
11	*Rubus bifrons* Vest	18 (39)	CC	RR
12	*Rubus flaccidus* P.J. Müller	1 (1)		RR
13	*Rubus grabowskii* Weihe	20 (28)	C	R
14	*Rubus montanus* Libert ex Lejeune	16 (63)	CC	R
15	*Rubus perperus* H.E. Weber	2 (3)	RR	
16	*Rubus praecox* Bertoloni	18 (43)	CC	RR
	series *Rhamnifolii* (Babington) Focke			
17	*Rubus gracilis* J. & C. Presl	1 (1)	RR	
18	*Rubus laciniatus* Willd.	-	R	
19	*Rubus langei* Jensen ex Frid. & Gelert	1 (1)		RR
20	*Rubus steracanthos* P.J. Müller ex Boulay	6 (15)	AR	RR
	series *Sylvatici* (P.J. Müller) Focke			
21	*Rubus ambulans* Matzke-Hajek	16 (17)	C	
22	*Rubus macrophyllus* Weihe & Nees	3 (3)	RR-R	
23	*Rubus neumannianus* H.E. Weber & Vannerom	29 (57)	RR	CC
	series *Sprengeliani* Focke			
24	*Rubus sprengelii* Weihe	22 (59)	AR-AC	CC
	series *Canescentes* H.E. Weber			
25	*Rubus canescens* DC.	2 (16)		C-CC
	series *Vestiti* (Focke) Focke			
26	*Rubus adornatus* P.J. Müller ex Wirtgen	12 (12)	AR-AC	AR-AC
27	*Rubus dechenii* Wirtgen	16 (21)	AR-AC	AR
28	*Rubus eifeliensis* Wirtgen	4 (4)	RR-R	RR
29	*Rubus oblongifolius* P.J. Müller & Wirtgen	9 (18)	R	RR-R
30	*Rubus omalodontus* P.J. Müller & Wirtgen	9 (10)	R	R
31	*Rubus pannosus* P.J. Müller & Wirtgen	4 (7)	R	
32	*Rubus pyramidalis* Kaltenbach	13 (21)	AC	RR-R
33	*Rubus ripuaricus* Matzke-Hajek	2 (2)		RR
34	*Rubus vestitus* Weihe	16 (96)	CC	C
35	*Rubus viscosus* Weihe ex Lejeune & Courtois	22 (37)	AR-AC	C

	series *Micantes* Sudre			
36	*Rubus condensatus* P.J. Müller	11 (27)	C	RR
37	*Rubus melanoxylon* P.J. Müller & Wirtgen	1 (1)	RR	
38	*Rubus micans* Godron & Grenier	1 (1)	RR	
39	*Rubus praestans* H.E. Weber	4 (5)	R	
40	*Rubus raduloides* (W.M. Rogers) Sudre	1 (1)	RR	
	series Radula (Focke) Focke			
41	*Rubus radula* Weihe	6 (11)	AR-AC	RR
42	*Rubus roberti*Matzke-Hajek	1 (1)	RR	
43	*Rubus rudis* Weihe	25 (107)	CC	AC
44	*Rubus saxicola* P.J. Müller	11 (20)	AR	AR-AC
	series Pallidi W.C.R. Watson			
45	*Rubus caninitergi* H.E. Weber	5 (5)	R-RR	R-RR
46	*Rubus erubescens* Wirtgen	1 (1)	RR	
47	*Rubus flexuosus* P.J. Müller & Lefèvre	4 (7)	R	
48	*Rubus fuscus* Weihe	4 (4)	R	
49	*Rubus loehrii* Wirtgen	16 (22)	AR	RR
50	*Rubus macrodontus* P.J. Müller	3 (3)		R
51	*Rubus transvestitus* Matzke-Hajek	1 (1)	RR	
	series *Hystrix* Focke			
52	*Rubus bonus-henricus* Matzke-Hajek	4 (4)	R-RR	RR
53	*Rubus hostilis* P.J. Müller & Wirtgen	1 (1)	RR	RR
54	*Rubus pedemontanus* Pinkwart	7 (17)	AR-AC	
55	*Rubus pedica* Matzke-Hajek	2 (2)		RR
56	*Rubus rosaceus* Weihe	6 (13)	RR	AR-AC
	series *Glandulosi* (Wimmer & Grabowski) Focke			
57	*Rubus ignoratus* H.E. Weber	3 (3)		RR
58	*Rubus negatus* A. Beek	-		RR
59	*Rubus oreades* P.J. Müller & Wirtgen	2 (2)	RR	
	sectio *Corylifolii* Lindley			
	Suberectigeni H.E. Weber			
60	*Rubus orthostachys* G. Braun	6 (6)	R	
	series *Sepincola* (Weihe ex Focke) E.H.L. Krause			
61	*Rubus hadracanthos* G. Braun	14 (15)	AC	RR
	series *Subthyrsoidei* (Focke) Focke			
62	*Rubus grossus* H.E. Weber	-	RR	
63	*Rubus imbellis* Matzke-Hajek	1 (1)		RR
	series *Subsilvatici* (Focke) Focke			
64	*Rubus camptostachys* G. Braun	1 (1)	RR	
65	*Rubus nemorosus* Hayne & Willd.	1 (1)		RR
	series *Subcanescentes* H.E. Weber			
66	*Rubus baruthicus* H.E. Weber	7 (7)	AR	RR
67	*Rubus leucophaeus* P.J. Müller	-	RR	
68	*Rubus scabrosus* P.J. Müller	7 (10)	RR	AR
	series *Subradula* W.C.R. Watson			
69	*Rubus cuspidatus* P.J. Müller	25 (57)	C-CC	C-CC
70	*Rubus delectus* P.J. Müller & Wirtgen	2 (2)	RR-R	
	series *Hystricopses* H.E. Weber			
71	*Rubus echinosepalus* H.E. Weber	6 (16)	R	RR
	sectio *Caesii* Lindley			
72	*Rubus caesius* L.	2 (87)	CC	R-RR

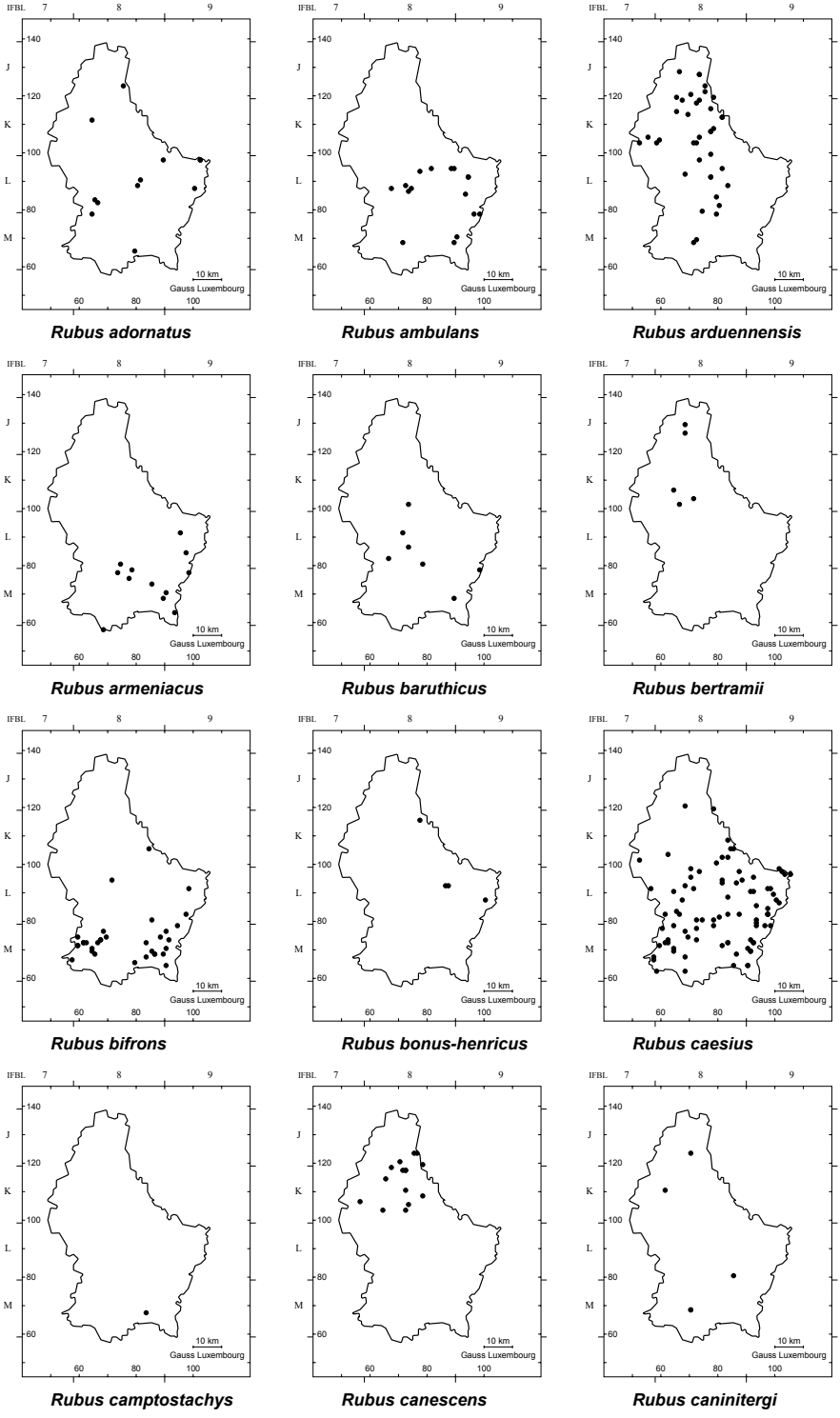


Fig. 1. Distribution maps of *Rubus* species in Luxembourg.

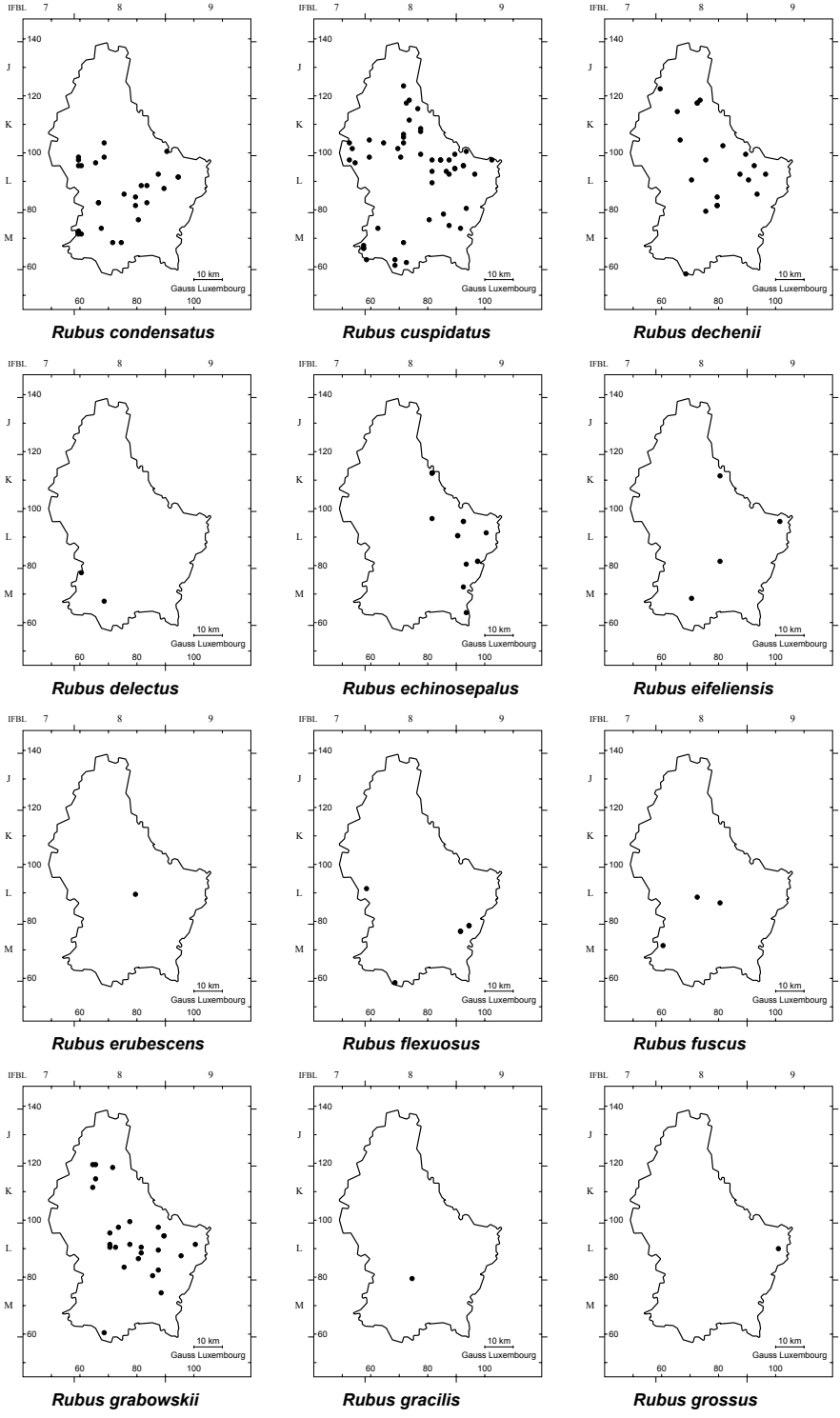


Fig. 1. Distribution maps of *Rubus* species in Luxembourg (cont.).

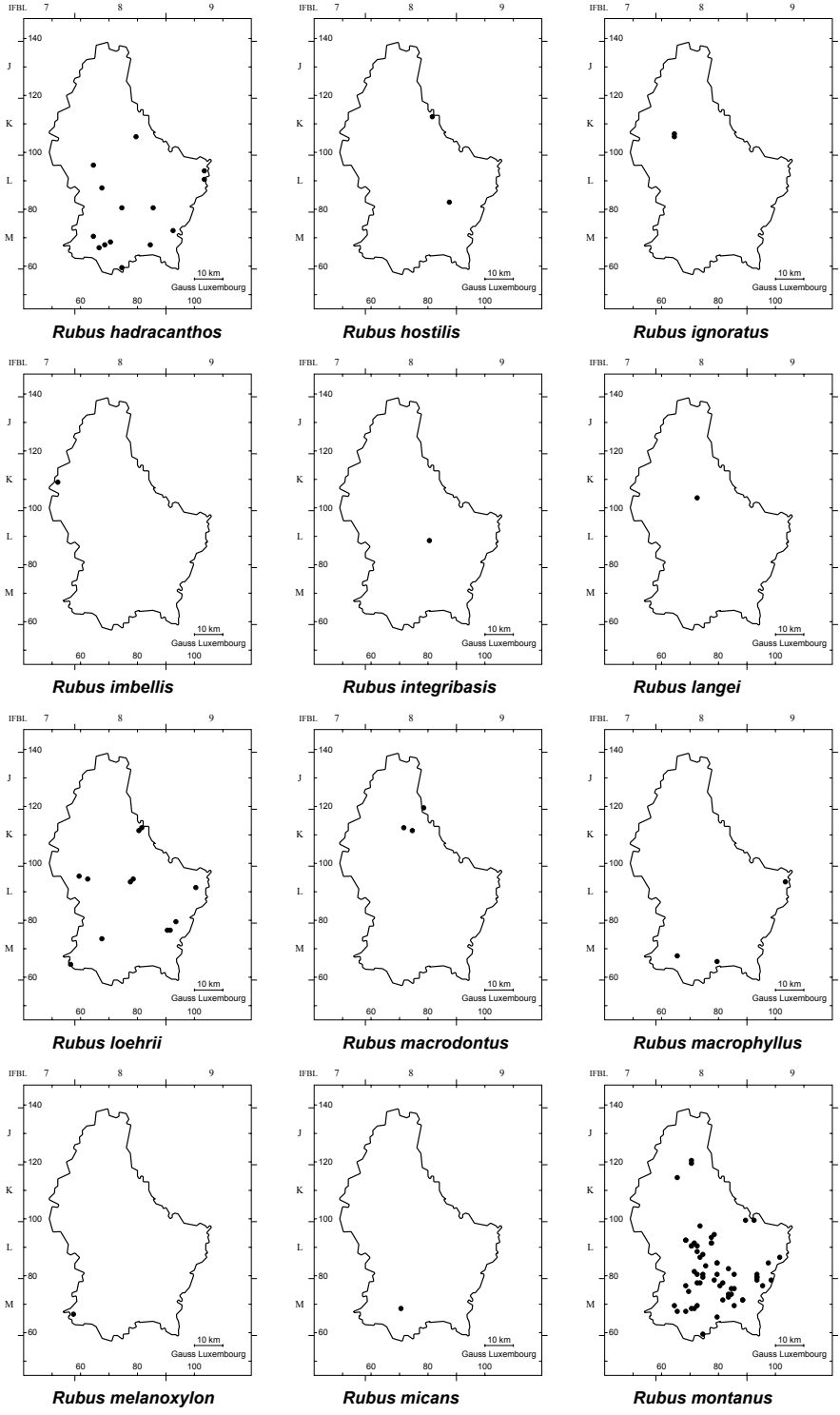


Fig. 1. Distribution maps of *Rubus* species in Luxembourg (cont.).

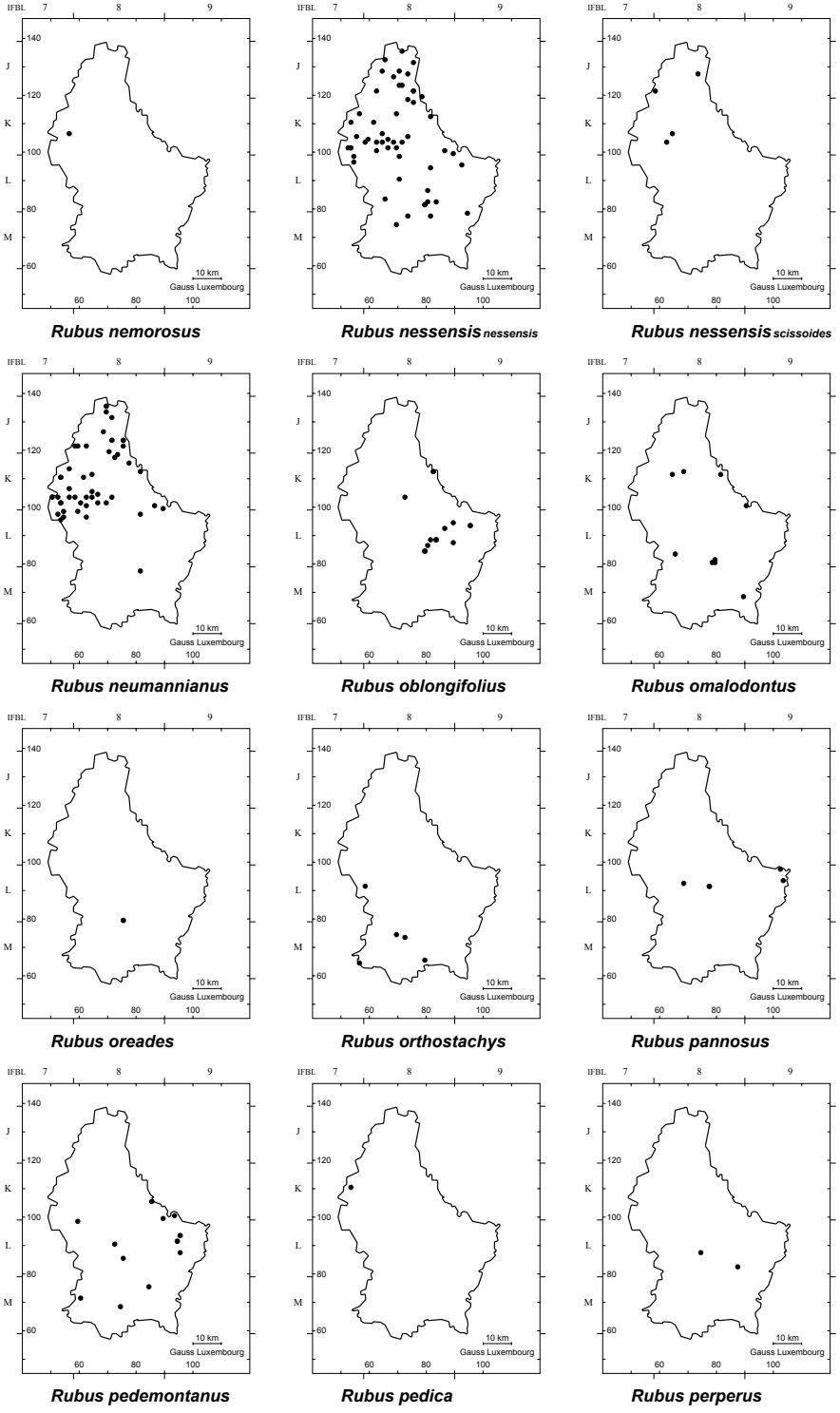


Fig. 1. Distribution maps of *Rubus* species in Luxembourg (cont.).

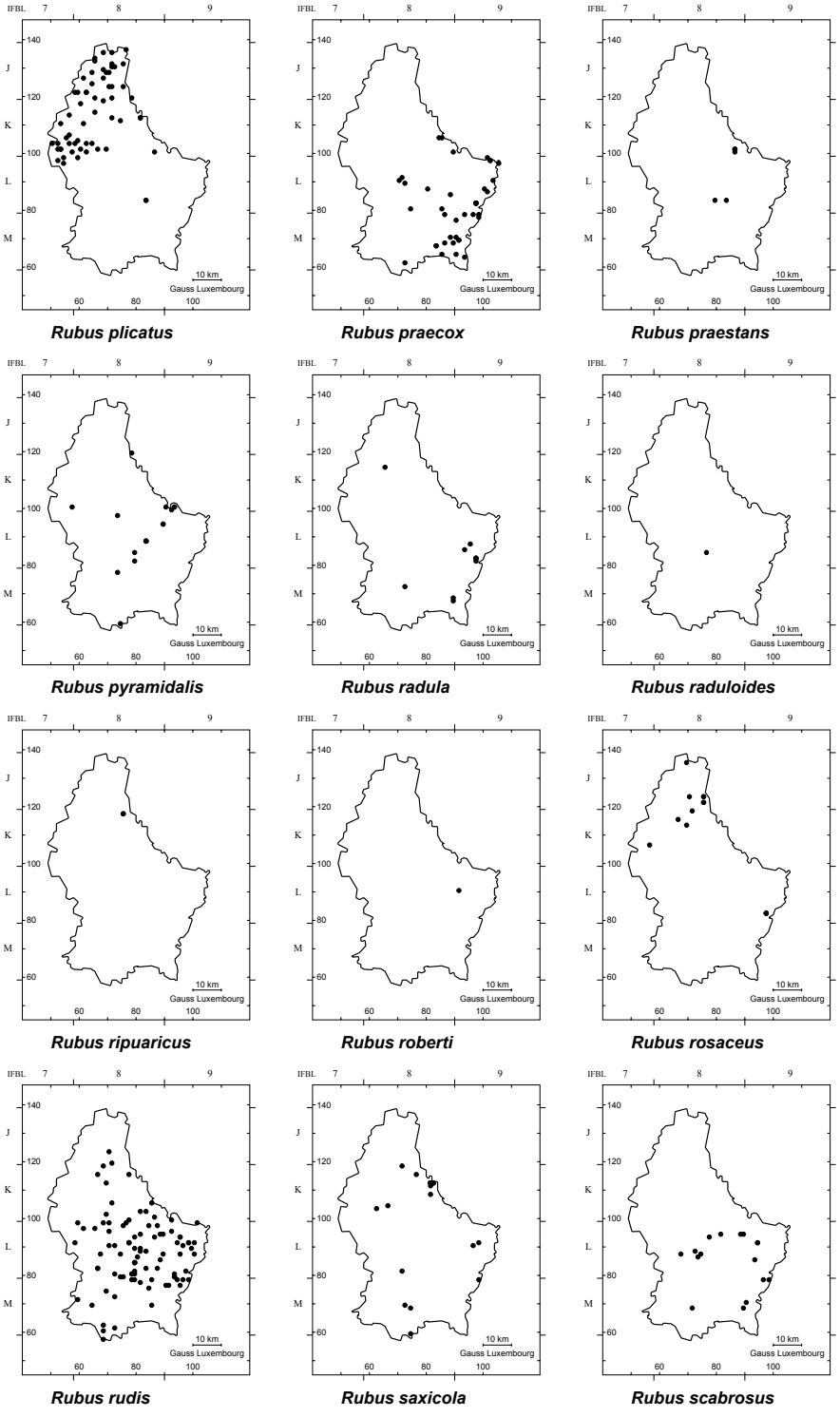


Fig. 1. Distribution maps of *Rubus* species in Luxembourg (cont.).

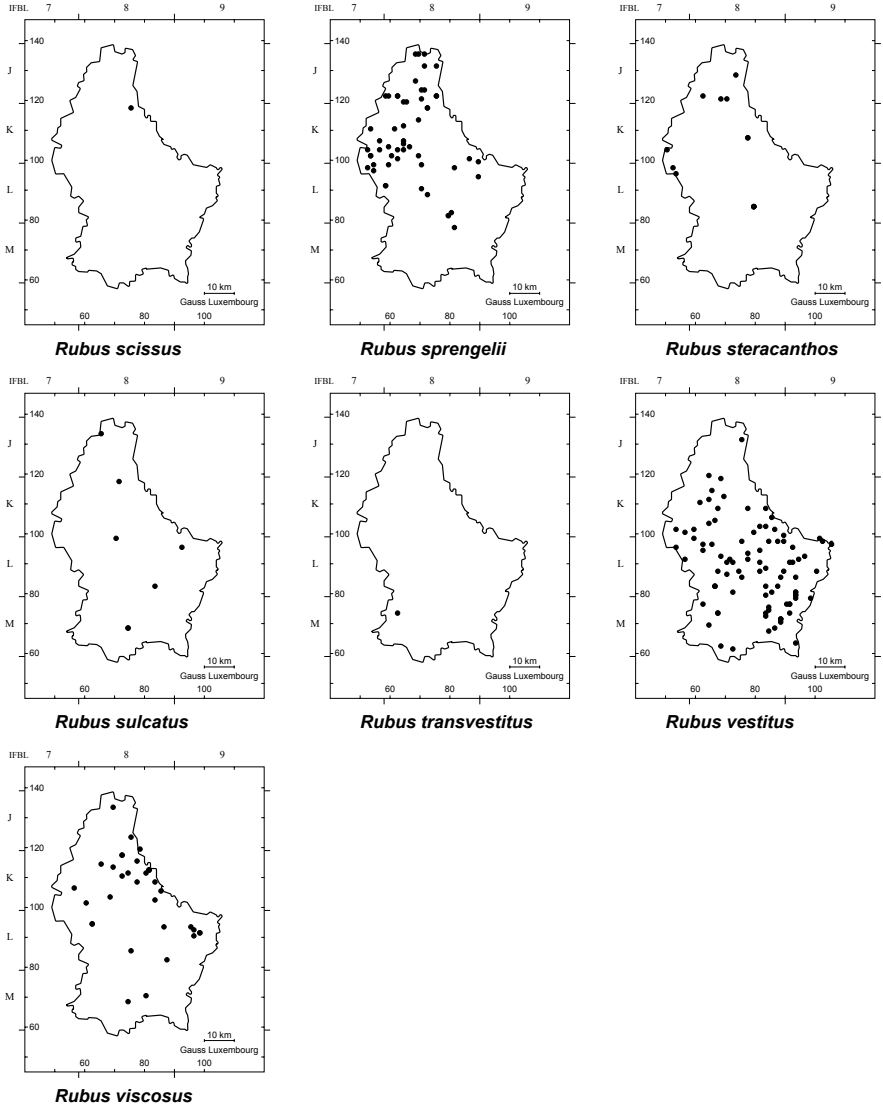


Fig. 1. Distribution maps of *Rubus* species in Luxembourg (cont.).

Acknowledgments

The author is most grateful to G. Matzke-Hajek and H.E. Weber for introducing him into the world of brambles, for checking his determinations and for always keeping him informed of their newest findings. Thank you also to Arto Kurtto from the comitee for mapping the Flora of Europe whose kind request for information has led to this publication and who has provided further valuable informations, to Guy Colling for his improving suggestions and to Paul Diederich for his helpful comments and for having provided the digital map basis for the distribution maps.

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