



БЪЛГАРСКА ФОНДАЦИЯ
БИОРАЗНООБРАЗИЕ

С О Ф И Я * SOFIA
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BULGARIAN BIODIVERSITY FOUNDATION

CONSPECTUS OF THE BULGARIAN VASCULAR FLORA

Distribution maps and floristic elements

Third revised and enlarged edition

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БЪЛГАРСКА ФОНДАЦИЯ БИОРАЗНООБРАЗИЕ

КОНСПЕКТ НА ВИСШАТА ФЛОРА НА БЪЛГАРИЯ

Хорология и флорни елементи

Трето допълнено и преработено издание

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ПРЕДГОВОР КЪМ ТРЕТОТО ИЗДАНИЕ

Видовото богатство на дадена територия е динамична величина поради навлизането на нови видове и изчезването на някои от съществуващите. Списъците на видове за дадена територия (флори, конспекти) се изменят поради промените във видовото богатство, но и в резултат на нови таксономични виждания и концепции. Поради тези съображения, когато в началото на 2006 г. стана ясно, че тиражът на второто издание на Конспекта (2002 г.) е почти изчерпан, решението естествено бе да подгответим ново издание.

Краткият период, измinal от отпечатването на второто издание, е период на интензивни проучвания на българската флора. Приключени са или са в ход редица проекти. Част от тях са свързани с интензивна теренна работа, покриваща цялата територия на страната. В Института по ботаника при Българска академия на науките са базирани проектите: „Биоразнообразие на флората и растителността на Родопите“ (2001-2003), „Проучване на тревните съобщества в България“ (2002-2004), „Оценка на потенциалните важни места за растенията в България“ (2003-2005), „Червени списъци на растения и гъби“ (2003-2005), „Червена книга на България. Том 1. Растения и гъби“ (2004-2007), „Оценка на чуждите за българската флора и микота видове“ (2005-2007). Проучванията, свързани с изработване на планове за управление на защитени територии, в т. ч. на големи такива, като националните и природни паркове (Централен Балкан, Рила, Пирин, Витоша, Странджа, Сините камъни, Рилски манастир, Русенски Лом), както и на редица резервати, обогатиха хорологичната информация за редица видове. Принос в това отношение дадоха и проектите по изграждане на мрежата NATURA 2000 в България.

Изключително важен принос за изясняване на състава на българската флора имат биосистематичните проучвания, сред които през последните години се открояват тези върху папратовидните растения, както и семействата *Asteraceae* (родовете *Achillea*, *Centaurea*, *Hieracium*, *Crepis*), *Brassicaceae*, *Campanulaceae*, *Fabaceae* при цветните растения.

В пряка връзка с интензивността на проучванията, изминалите период е богат на публикации върху българската флора. Обстоен обзор на проучванията и публикациите за периода 1993-2004 г. дават PETROVA, A. & AL. (2005). През 2003 г. излезе от печат и Определител на растенията в България (DELIPAVLOV & ČEŠMEDŽIEV, 2003), в който са включени 3800 диворастящи и 530 интродуцирани и култивирани вида.

В настоящето, трето издание на Конспекта са включени общо 3997 вида висши растения, което е с 147 вида повече от броя в предходното. Съществено различие е включването на видове, чието присъствие в българската флора е непотвърдено, но вероятно. При повечето от тях (26 вида) основание за включването им в настоящия Конспект е посочването им

под въпрос в Определителя на висшите растения (KOZHUHAROV, 1992). Включването на останалите видове е въз основа на различни трудове и публикации (ANČEV, 2001; ERBEN, 2002; FRÖHNER, 1997 и т.н.). В случаите, когато има предположения за срещането на вида в конкретен район, е поставен въпросителен знак ("?") върху района (районите). Когато се допуска срещането на вида в България, но без конкретен район, въпросителният знак е поставен върху картата на цялата страна.

Описани нови за науката видове от страната през този период са *Alyssum orbelicum* Ančev & Uzunov (ANČEV & UZUNOV, 2002), *Bolboschoenus platycarpus* Marhold, Hroudová, Ducháćec & Zákravský (MARHOLD & AL., 2004), *Festuca achterovii* Velčev & Vassilev, *F. calcarea* Velčev ex Denchev, *F. maleschevica* Velčev & Vassilev, *F. staroplaninica* Velčev, *F. vandovii* Velčev ex Denchev, (DENCHEV, 2004; VELČEV, 2002; VELČEV & VASSILEV 2002a), *Hieracium kittianiae* Vladimir., *H. petrovae* Vladimir. & Szelag (VLADIMIROV, 2003a; VLADIMIROV & SZELAG, 2006), *Vicia jordanovii* Velčev (VELČEV, 2002).

Добавени са също така редица видове, описани от България преди 2002 г., но останали неотразени в предходното издание. Такива са: *Alchemilla sirjaevii* Plochek (PLOCHEK, 1983), *Bromus orbicularis* (Velen.) Petrova, Kožucharov & Ehrend. (PETROVA & AL., 1997), *Bromus parilicus* Petrova, Kožucharov & Ehrend. (PETROVA & AL., 1997), *Carex riloensis* Stoeva & Popova (STOEOVA & POPOVA, 1993), *Myosotis margaritae* Štěpánková (ŠTĚPÁNKOVÁ, 1993). Впечатляващ е броят на включените за пръв път в Конспекта видове от род *Taraxacum* – общо 43. Сред тях са 20 вида, описани от България (DOLL, 1978; KIRSCHNER & ŠTĚPÁNEK 1993, 1998). С оглед на настъпилите промени в таксономичната концепция на този род, статусът на част от тези видове (DOLL, 1978) може да бъде обект на бъдеща критична преоценка.

Нови за страната видове и такива неотразени в предишното издание на Конспекта са *Achillea asplenifolia* Vent., *Arabis ciliata* Clairv., *Bulpeurum ranunculoides* L., *Carex caespitosa* L., *C. elata* All., *C. hartmanii* Cajander, *C. lasiocarpa* Ehrh., *Centaurium littorale* (Turn.) Gilm., *Cerastium tenoreanum* Ser., *Clypeola microcarpa* Moris, *Crocus pallidus* Kitanov & Drenkovsky, *Dryopteris affinis* (Lowe) Fraser-Jenk., *Epipactis gracilis* B.& H. Baumann, *E. greuteri* H. Baumann & Künkele, *E. leptochila* (Godgery) Godfery, *E. pontica* Taubenheim, *Equisetum × moorei* Newman, *Geranium aristatum* Freyn. & Sint., *Gymnadenia densiflora* (Wahlenb.) A. Dietr., *Lathyrus filiformis* (Lam.) Gay, *Leontodon saxatilis* Lam., *L. tuberosus* L., *Linaria angustissima* (Loisel) Borbás, *Luzula divulgata* Kirshner, *L. falax* Kirschner, *Myosotis michaelae* Štěpánková, *Ophrys reinholdii* Spruner ex Fleishm., *Polycarpon diphyllum* Cav., *Polypodium interjectum* Shivas, *P. × mantoniae* Rothm., *Quercus trojana* Webb., *Rumex confertus* Willd., *Sagittaria latifolia* Willd., *Sesleria argentea* (Savi) Savi, *S. autumnalis* (Scop.) F.W. Schultz, *S. robusta* Schott, Nym. & Kotschy, *S. filifolia* Hoppe, *S. uliginosa* Opiz, *Thesium procumbens* C.A. Mey, *Thlaspi viridisepalum* (Podp.) Greuter & Burdet, *Thymelaea gussonei* Boreau, *Tragopogon floccosus* Waldst. & Kit., *Vulpia fasciculata* (Forssk.) Samp. (ANČEV, 2001; BERGMAN & AL., 2004; DELIPAVLOV, 2000; DELIPAVLOV & ČEŠMEDŽIEV, 2003; DIMITROVA & AL., 2005; GUSSEV & AL., 2005; HÁJEK & AL., 2005; HENDRYCH, 1994; IVANOVA, 2004; IVANOVA, in press; JORDANOV & AL., 1974; KIRSCHNER, 1991; KITANOV & AL., 1977; KOSTADINOVA & DIMITROV, 2002; KRÁL 1988,

LATOWSKI, 1993; PETROVA, 2000; PETROVA, in press; PETROVA, ANT. & AL., 2005; PETROVA, ANT. & VENKOVA, 2006; PETROVA, ANT. & VENKOVA, in press; PETROVA, ANT. & VENKOVA, submitted; PLOCHEK, 1983; SAUKEL & AL., 2003; ŠTĚPÁNKOVÁ, 1994b; STOEVA, 1994; STOEVA & AL., 2005; STOYANOV, 2004; TOSHEVA, 2005; VELČEV & VASSILEV, 2002b; VLADIMIROV & DIMITROVA, 2006; VLADIMIROV & TSONEVA, 2006).

Успоредно с подготовката на Конспекта се подготвяше ново издание на "Атлас на ендемичните растения в България" (PETROVA, 2006). Във включения в атласа списък на българските ендемити (PETROVA & VELČEV, 2006) има видове, които в част от обобщаващите издания за българската флора са разглеждани като вътревидови таксони и като такива не са били включени в предишното издание на Конспекта. Това са *Alchemilla damianicensis* Pawł., *Centaurea kamciensis* Kočev & Gančev, *Colchicum rhodopaeum* Kov., *Hieracium asenovogradense* Jasiewicz & Pawł., *H. ferdinandii-regis* Zahn, *Jurinea bulgarica* Velen.

Както това беше отбелоязано и във второто издание, по принцип сме се въздържали от вземане на таксономични решения и сме отразявали валидно публикуваните от страната таксони. Понякога това е в противоречие с нашите схващания. DELIPAVLOV (1998) публикува като нов за науката вид *Oenothera bulgarica* Delip. от Южна Струмска долина. VELČEV & VASSILEV (2002b) публикуват от същия район *O. stricta* Ledeb. ex Link. В случая вероятно се касае за един и същ таксон и доколкото род *Oenothera* е американски, описането на нови видове от находища извън естествения им ареал не е добро решение.

В резултат на биосистематични проучвания е потвърден видовият статус на редица видове в род *Centaurea* (BANCHEVA, 1999; BANCHEVA & RAIMONDO, 2003; BANCHEVA & GREILHUBER, 2006). Значителни и различни по характер са промените, настъпили и в семейство Brassicaceae (ANČEV, 1997, 2001; ANČEV & GORANOVA, 2006; ANČEV & POLATSCHEK, 1998, 2003, 2006; ANČEV & TOMŠOVIC, 1999). Съществени са и промените, резултат от задълбочено проучване на род *Achillea* в България (NEDELCHEVA, 1998; SAUKEL & AL., 2003).

В сравнение с Конспекта от 2002 г., от българската флора отпадат 20 таксона. В някои случаи се касае за погрешно съобщени за страната видове, напр. *Ophrys argolica* H. Fleischman (BERGMAN & AL., 2004; TSVETANOV & AL., in press). Подобен е случаят с *Campanula trichocalycina* Ten., погрешно посочвана за страната вместо *Asyneuma pichleri* (Vis.) Lakušić & P. Conti (LAKUŠIĆ & CONTI, 2004). От род *Rosa* отпадат пет вида поради критична преоценка на техния статус (ZIELIŃSKI & AL., 2004).

Въпросът за навлизането на антропофити във флората е изключително актуален в наши дни (PETROVA & VLADIMIROV, 2002). Регистрирани за първи път за страната са *Fallopia × bohemica* (Chrtek & Chrtekova) J. P. Baylei, *Helianthus tuberosus* L., *Solidago gigantea* Ait., *Bidens frondosa* L., *Syrios angulatus* L., *Parthenocissus quinquefolia* (L.) Planch. (PETROVA, ANT., 2006; ŠUMBEROVA & AL., 2004; TZONEV, 2005; VLADIMIROV, 2003, 2006). По авторови наблюдения в Конспекта са включени и някои други адVENTивни видове, неотразени в предишното издание – *Armoracia rusticana* (Lam.) P. Gaertn., *Fraxinus americana* L., *F. pensylvanica* H. Marshall, *Gleditsia triacanthos* L.,

Opuntia tortispina Engel, *O. vulgaris* Mill. (= *O. compressa* (Salisb.) Macbr.),
Robinia pseudoacacia L.

Доколкото като ботаници интересите ни са основно свързани с флористичните проучвания, философията ни за Конспекта е той да представя нагледно разпространението на видовете в страната и да подпомага изясняването му. В тази връзка и в това издание е запазен утвърденият в предходните формат. Той обаче от своя страна налага някои ограничения. На първо място това е липсата на синоними, вътревидови таксони и коментари. Поради това в редица случаи за нас беше много трудно да вземем решение за названието, под което включваме даден таксон в Конспекта, както и за начина на включване на таксони, при които има различни виждания за обема. Отчитайки, че изданието е предназначено не само за професионални ботаници, а за широк кръг читатели, сме подхождали преди всичко от практичесна гледна точка, предпочитайки познатите в българската ботаническа литература имена или таксономични концепции. Например, род *Centaurea* е разгледан в широк смисъл, включвайки в нейния обем родовете *Cyanus*, *Rhaponticoides* и *Colymbada*. Същото се отнася и за някои видове, напр. *Montia fontana* L., която запазваме в широк смисъл. Независимо от това, по номенклатурни причини са възприети над 30 промени в имената на различни видове. Изпълняваният в Института по ботаника към БАН проект за изготвяне на синонимен речник на висшите растения в България безспорно е крайно необходим и ще запълни една празнота в българската ботаническа литература.

Шо се отнася до съкращенията на авторовите имена на растенията, в настоящето издание сме се постарали да следваме стандарта на BRUMMITT & POWELL (1992). Отстранени са някои досадни неточности в изписването на видовите имена, част от тях фигуриращи в някои от основните източници по българската флора.

Както и в предходното издание, хорологичната информация е осъвременена с данните от достъпната литература, с резултатите от проверките в българските хербариуми и по собствени непубликувани данни. Общо в Конспекта са отразени около 1500 промени в разпространението на видовете по флористични райони. Те са резултат на обобщаването на данните от горецитираните и още 121 публикации - както съвременни, така и някои по-стари работи, данните от които са пренебрегнати в други обобщаващи издания (ALBACH & VLADIMIROV, 2002; ANČEV & POLATSCHEK, 2006; ASSYOV & VASSILEV, 2004; ATANASOVA & MARINOVA, 2005; BANCHEVA, in press; BANCHEVA & DELCHEVA, 2004; BANCHEVA & GREILHUBER, 2006; BANCHEVA & AL., 2002, 2004; BONDEV & AL., 1967; CHERNEVA, 2003; ČEŠMEDŽIEV, 1977; ČEŠMEDŽIEV & STOJCHEV, 1994; DELIPAVLOV, 2000; DELIPAVLOV & CHESHMEDZHIEV 2003; DENCHEV, 1970; DIMITROV, 2002a, 2002b, 2002c, 2002d, 2004; 2005, DIMITROV & ASSYOV, 2003; мести се тук DIMITROV & PAVLOVA, 2002; DIMITROV & SIDJIMOVA, 2003; DIMITROV, & TZONEV, 2002; DIMITROV, & VUTOV, 2004; 2006, DIMOVA & VLADIMIROV, 2006; DIMOVA & AL. 2002; FILIPOVA-MARINOVA, & PETROVA, 2003; GANCHEV, & DENCHEV, 1965, 1967, 1971; GANCHEV, & KOACHEV, 1963, 1968; GEORGIEVA, 2000; GERASIMOVA & AL., 2003; GORANOVA, & VASSILEV, in press; GROZева, & GEORGIEVA, 2004; GROZева, & AL., 2004; GUSSEV & AL., 2005; HÁJEK &

AL., 2005; IVANOVA, 1997, 1999, 2003; IVANOVA, & AL. 2005; JORDANOV, 1966; JORDANOV & KOCHEV, 1973; JORDANOV & AL, 1965a,b, 1974; KIRSCHNER, 1991, 1992; KOSTADINOVA & DIMITROV, 2002; MEYER, 1985; MILANOVA, & GUSSEV, 2002; PANOV, 1972, 1996; PAVLOVA, 2004, 2006; PAVLOVA, & TOSHEVA, 2002; PAVLOVA, & AL, 2006; PEDASHENKO, submitted; PEEV & VASILEV, 1972; PETROVA, 2000; PETROVA, ANT., 2004a, 2004b, 2004c, 2005, 2006; PETROVA, ANT. & AL., 1998, 2004, 2006; PETROVA, ANT. & AL., submitted; PETROVA, ANT. & AL, in prep.; RADKOV, 2003; RADOSLAVOVA, 2002; SAVCHEV, 1969; SOPOTLIEVA & PETROVA, ANT., 2001, 2002; STEFANOV & BUNKOV, 1971; STANEV, 1969, 1970, 1971, 1979a, b, 2005; STOEVA, & POPOVA, 1993; STOEVA & AL., 2005; STOYANOV, K., 2005; STOYANOV, S., 2004, 2005; ŠUMBEROVA, & AL., 2004; TASHEV, 2003; TOSHEVA, 2004; 2005; TOSHEVA, & PAVLOVA, 2003; TRIFONOV, 2005; TSVEGANOV & AL, in press; TZONEV, & ŠUMBEROVÁ, 2004; TZONEV, in press; UZUNOVA & UZUNOV, 2005; VALEV, 1963; 1968; VASSILEVA & VIHODCEVSKY, 1974; VELČEV & BONDEV, 1964, 1965, 1975; VELČEV & VASSILEV, 1969, 1971, 2002b; VELČEV & AL., 1968, 1973; VIHODCEVSKY, 1963, 1968, 1977; VLADIMIROV, 2001a, 2001b, 2006; VUTOV & DIMITROV, 2002; ZAHARIEV & GENOVA, 2005; ŽUKOWSKI, 1993 и др.).

При отделни видове промените в разпространението са значителни, напр. при *Carex panicea* L. (ASSYOV & VASSILEV, 2004; PETROVA, ANT., 2005; PETROVA, ANT. & AL., submitted), *Eleocharis uniglumis* (Link) Schultes (HÁJEK & AL., 2005; PETROVA, ANT., 2005), *Scabiosa argentea* L. (ASSYOV & VASSILEV, 2004; PETROVA, ANT., 2005; PETROVA, ANT. & AL., submitted) и др. Понякога целенасочените проучвания показват, че видове считани за редки, в действителност са сравнително широко разпространени в страната. Такива са *Buglossoides glandulosa* (Velen.) R. Fern. (KIRYAKOV & PETROVA 2003), *Thesium linophyllum* L. (PETROVA, ANT., ASSYOV, VASSILEV & GORANOVA, in prep.) и др. Пример за прецизно отразяване на хорологията са работите на IVANOVA (2003), STOYANOV, K. (2005) и др. Следва също така да се отбележи и преоткриването на видове, доскоро смятани за изчезнали от територията на страната, напр. *Astragalus physocalyx* Fisch. (STOYANOV, S. & AL., 2006).

Най-голям брой са флористичните съобщения за Стара планина (над 200), което е свързано преди всичко с публикацията на GROZева & AL. (2004), но също тези на DIMITROV, 2005; PETROVA, ANT., 2004a, както и някои по-стари работи (GANCHEV & DENCHEV, 1965, 1967, 1971 и др.). Значителен е броят на новите записи за Родопите, общо около 150 за трите подрайона (BANCHEVA & AL., 2004; PAVLOVA, 2004; PETROVA, ANT., 2004c, 2005; PETROVA, ANT. & AL., 2004, 2006 и др.). На трето място се нарежда Средна гора, за където има голям брой нови съобщения и по-стари публикации от редица автори (ASSYOV & VASSILEV, 2004; DIMITROV, 2002c; PEDASHENKO, submitted; PETROVA, ANT., 2004b; STANEV, 1979a; VELČEV & VASSILEV, 2002, и др.). Родове, за които има значителен брой нови данни са *Achillea*, *Carex*, *Centaurea*, *Cerastium*, *Silene*.

Натрупаният опит от трите издания на Конспекта ни убеждава в необходимостта от поддържане на съвременна и достъпна база от данни за състава на флората на България и хорологията на видовете. Така ще се избегнат случаите на неколкократно публикуване на "нови" за страната и отделни райони видове. Впечатляващ в това отношение е случаят с *Bellevalia*

sarmatica (Pall. ex Georgi) Woronov, публикувана последователно от PRODAN (1939), KITANOV & AL. (1977), BERG & AL. (1989) и DELIPAVLOV (1998). Аналогично, *Knautia degenii* Borb. ex Form., е съобщена от KRÁL (1983), GUSSEV (1998) и DELIPAVLOV & ČEŠMEDŽIEV (1998). Тук могат да се добавят още *Carex caespitosa* L. (JORDANOV & al., 1974; STOЕVA & AL., 2005). Нерядко интересни флористични данни остават "скрити" в кариологични проучвания, напр. *Carex elata* All. (STOЕVA, 1994); *Sesleria robusta* Schott, Nym. & Kotschy (PETROVA, 2000).

Осмислянето на този значителен фактологичен материал за флората на България неминуемо навежда на някои обобщения. Освен традиционно сложните в таксономично отношение родове (напр. *Hieracium*, *Rosa*, *Rubus*, *Taraxacum* и др.), се очертават родове, в които изглежда е необходима задълбочена работа за изясняване на състава им в българската флора (*Cerastium*, *Colchicum*, *Dactylorhiza*, *Dianthus*, *Epipactis*, *Gagea*, *Ornithogalum*, *Orobanche*, *Scilla*, *Sesleria*, *Viola*). Многобройни са също така и родовете, в които редица видове се нуждаят от изясняване на актуалното разпространение в страната (*Aegilops*, *Agrostis*, *Arum*, *Bromus*, *Carex*, *Elymus*, *Euphorbia*, *Festuca*, *Iris*, *Phleum* и др.).

Благодарности

Работата по Конспекта се оказа трудоемка и нелека задача, която надали би била успешна в кратките срокове, ако не бе съдействието на много колеги и приятели. Преди всичко, изказваме нашите сърдечни благодарности на д-р Ана Петрова за предоставените публикации и данни, за изключителната отзивчивост към многобройните ни и разностранни въпроси. Благодарим за предоставената информация, публикации и консултации на колегите Чавдар Гусев, Владимир Владимиров, проф. Илия Чешмеджиев, проф. Минчо Анчев, д-р Светлана Банчева, Стоян Стоянов, д-р Росен Цонев, Валя Горanova, Христо Педашенко. Специални благодарности за предоставените данни и критични бележки дължим също така на Даниела Иванова (върху папратовидните растения) и на Анита Тошева (върху род *Lathyrus*). Благодарим на кураторите на хербариумите на Института по ботаника, БАН (SOM), Софийски университет „Св. Климент Охридски“ (SO) и Аграрния университет, Пловдив (SOA) за любезно оказаното ни съдействие. Накрая, но не на последно място, използваме възможността да изкажем своята благодарност на институциите, в които работим, за създадените условия за ползотворна работа. Новата информация в Конспекта е резултат и на дългогодишни ботанически проучвания в различни краища на страната. Благодарим на всички колеги и приятели, с които сме работили съвместно на терена.

FOREWORD TO THE THIRD EDITION

The species diversity of an individual territory is a dynamic figure depending on the emergence of new species and the extinction of others. The species lists regarding specific territory (Flora, Conspectus) change because of the species diversity changes, but also as a result of introduction of more contemporary taxonomic concepts and ideas. In the beginning of 2006, when it became clear that the second edition of the Conspectus (2002) was almost completely out of print, the above considerations brought to the logical solution of preparing a new edition.

Despite of the short period since the printing out of the second edition this time was dedicated to extensive studies of the Bulgarian flora. A number of projects have just been finalized or have been on-going. Part of them involve intensive field work, covering the whole territory of the country. The Institute of Botany at the Bulgarian Academy of Sciences has hosted some of these projects: „Biodiversity of the Flora and the Vegetation of the Rhodopes” (2001-2003), „Study of the Grass Communities in Bulgaria” (2002-2004), „Evaluation of the potential Important Plant Areas Bulgaria” (2003-2005), „Red Lists на plants и fungi” (2003-2005), „Red Data Book of Bulgaria, Volume I Plants and Fungi” (2004-2007), „Evaluation of the Alien to the Bulgarian Flora and Mycota Species” (2005-2007). The studies concerned with the elaboration of management plans for protected areas, including spacious ones like the National and Nature Parks (Central Balkan, Rila, Pirin, Vitosha, Strandja, Sinite Kamani, Rila Monastery, Rusenski Lom), as well as these of a number of nature reserves, have enriched the chorological information on a number of species. The projects aiming at the establishment of the NATURA 2000 network in Bulgaria have also contributed.

Extremely important for clarifying the Bulgarian flora composition have also been the biosystematic studies amongst which during the last years especially noticeable have been these concerned with the fern plants, as well as with the families Asteraceae (genera *Achillea*, *Centaurea*, *Hieracium*, *Crepis*), Brassicaceae, Campanulaceae, Fabaceae of the flowering plants.

Being directly dependent of the studies intensity, a number of publications on the Bulgarian flora have been issued during this period. An extensive review of the studies and the publications during the period 1993-2004 have provided PETROVA, A. & AL. (2005). In 2003 Field Guide to the Plants in Bulgaria (DELIPAVLOV & ČEŠMEDŽIEV, 2003) has been published, which includes 3,800 wild and 530 introduced and cultivated species.

The present third edition of the Conspectus includes a total of 3,997 vascular plant species, which number exceeds by 147 the number of species included in the previous edition. Substantial difference makes the inclusion of species the occurrence of which in the Bulgarian flora is probable but not confirmed yet. Justification for including most of them (26 species) in the present Conspectus

provides the fact they are mentioned under question in The Vascular Plants Guide Book (KOZHUHAROV, 1992). The inclusion of the other species is justified by different papers and publications (ANČEV, 2001; ERBEN, 2002; FRÖHNER, 1997, etc.). In the cases when a species is supposed to occur in a specific region, it is indicated by a question mark ("?") on the region (regions). When the occurrence of the species in Bulgaria is supposed without indications for a specific region the question mark is posed on the map of the whole country.

The new for the science species described in the country in this period include *Alyssum orbicum* Ančev & Uzunov (ANČEV & UZUNOV, 2002), *Bolboschoenus platycarpus* Marhold, Hroudová, Ducháčec & Zákravský (MARHOLD & AL., 2004), *Festuca achtarovii* Velčev & Vassilev, *F. calcarea* Velčev ex Denchev, *F. maleschevica* Velčev & Vassilev, *F. staroplaninica* Velčev, *F. vandovii* Velčev ex Denchev, (DENCHEV, 2004; VELČEV, 2002; VELČEV & VASSILEV 2002a), *Hieracium kittianiae* Vladimir., *H. petrovae* Vladimir. & Szelag (VLADIMIROV, 2003a; VLADIMIROV & SZELAG, 2006), *Vicia jordanovii* Velčev (VELČEV, 2002).

A number of species described for Bulgaria before 2002 that have not been covered by the previous edition have also been added. Such are: *Alchemilla sirjaevii* Plochek (PLOCHEK, 1983), *Bromus orbicularis* (Velen.) Petrova, Kožucharov & Ehrend. (PETROVA & AL., 1997), *Bromus parilicus* Petrova, Kožucharov & Ehrend. (PETROVA & AL., 1997), *Carex riloensis* Stoeva & Popova (STOEVA & POPOVA, 1993), *Myosotis margaritae* Štěpánková (ŠTĚPÁNKOVÁ, 1993). The number of species included for the first time in the Conspectus belonging to the *Taraxacum* genus is impressive – a total of 43. Among them are 20 species described from Bulgaria (DOLL, 1978; KIRSCHNER & ŠTĚPÁNEK 1993, 1998). In the light of the changes that have occurred in the taxonomic concept of this genus, the status of some of these species (DOLL, 1978) could become a subject of a future critical review.

The new to the country species and the ones that are not covered by the previous edition of the Conspectus are: *Achillea asplenifolia* Vent., *Arabis ciliata* Clairv., *Bulpeurum ranunculoides* L., *Carex caespitosa* L., *C. elata* All., *C. hartmanii* Cajander, *C. lasiocarpa* Ehrh., *Centaurium littorale* (Turn.) Gilm., *Cerastium tenoreanum* Ser., *Clypeola microcarpa* Moris, *Crocus pallidus* Kitanov & Drenkovsky, *Dryopteris affinis* (Lowe) Fraser-Jenk., *Epipactis gracilis* B.& H. Baumann, *E. greuteri* H. Baumann & Künkele, *E. leptochila* (Godgery) Godfery, *E. pontica* Taubenheim, *Equisetum × moorei* Newman, *Geranium aristatum* Freyn. & Sint., *Gymnadenia densiflora* (Wahlenb.) A. Dietr., *Lathyrus filiformis* (Lam.) Gay, *Leontodon saxatilis* Lam., *L. tuberosus* L., *Linaria angustissima* (Loisel) Borbás, *Luzula divulgata* Kirchner, *L. falax* Kirschner, *Myosotis michaelae* Štěpánková, *Ophrys reinholdii* Spruner ex Fleishm., *Polycarpon diphyllum* Cav., *Polypodium interjectum* Shivas, *P. × mantoniae* Rothm., *Quercus trojana* Webb., *Rumex confertus* Willd., *Sagittaria latifolia* Willd., *Sesleria argentea* (Savi) Savi, *S. autumnalis* (Scop.) F.W. Schultz, *S. robusta* Schott, Nym. & Kotschy, *S. filifolia* Hoppe, *S. uliginosa* Opiz, *Thesium procumbens* C.A. Mey, *Thlaspi viridisepalum* (Podp.) Greuter & Burdet, *Thymelaea gussonei* Boreau, *Tragopogon floccosus* Waldst. & Kit., *Vulpia fasciculata* (Forssk.) Samp. (ANČEV, 2001; BERGMAN & AL.,

2004; DELIPAVLOV, 2000; DELIPAVLOV & ČEŠMEDŽIEV, 2003; DIMITROVA & AL., 2005; GUSSEV & AL., 2005; HÁJEK & AL., 2005; HENDRYCH, 1994; IVANOVA, 2004; IVANOVA, in press; JORDANOV & AL., 1974; KIRSCHNER, 1991; KITANOV & AL., 1977; KOSTADINOVA & DIMITROV, 2002; KRÁL 1988, LATOWSKI, 1993; PETROVA, 2000; PETROVA, in press; PETROVA, ANT. & AL., 2005; PETROVA, ANT. & VENKOVA, 2006; PETROVA, ANT. & VENKOVA, in press; PETROVA, ANT. & VENKOVA, submitted; PLOCHEK, 1983; SAUKEL & AL., 2003; ŠTĚPÁNKOVÁ, 1994b; STOЕVA, 1994; STOЕVA & AL., 2005; STOYANOV, 2004; TOSHEVA, 2005; VELČEV & VASSILEV, 2002b; VLADIMIROV & DIMITROVA, 2006; VLADIMIROV & TSONEVA, 2006).

The new edition of the Atlas of the Endemic Plants in Bulgaria has been elaborated in parallel with the Conspectus (PETROVA, 2006). The list of the Bulgarian endemic species included in the Atlas (PETROVA & VELČEV, 2006) contains species, which are presented as intraspecific taxa in some of the general publications on the Bulgarian flora and being such, have not been included in the previous edition of the Conspectus. Such are: *Alchemilla damianicensis* Pawl., *Centaurea kamciensis* Kočev & Gančev, *Colchicum rhodopaeum* Kov., *Hieracium asenovgradense* Jasiewicz & Pawl., *H. ferdinandii-regis* Zahn, *Jurinea bulgarica* Velen.

As already noted in the second edition we have in general restrained from making taxonomic decisions and have reflected the taxa validly published for the country. Sometimes this has been in contradiction with our perceptions. DELIPAVLOV (1998) has published *Oenothera bulgarica* Delip. from the Southern Struma Valley as a new species for the science. VELČEV & VASSILEV (2002b) have published *O. stricta* Ledeb. ex Link from the same region. The same taxon is most probably concerned in this case. Given that the genus *Oenothera* is American the describing of new species for localities outside their native range of distribution does not seem to be a good decision.

Resulting from the biosystematic studies, the species status of a number of species belonging to the *Centaurea* genus has been confirmed (BANCHEVA, 1999; BANCHEVA & RAIMONDO, 2003; BANCHEVA & GREILHUBER, 2006). Substantial and of different character have also been the changes concerning the *Brassicaceae* family (ANČEV, 1997, 2001; ANČEV & GORANOVA, 2006; ANČEV & POLATSCHEK, 1998, 2003, 2006; ANČEV & TOMŠOVIC, 1999). Significant are also the changes resulting from the comprehensive study of *Achillea* genus in Bulgaria (NEDELCHEVA, 1998; SAUKEL & AL., 2003).

Compared to the 2002 Conspectus 20 taxa have been excluded from the Bulgarian flora. In some cases this concerns species that have been reported for the country by mistake, for example. *Ophrys argolica* H. Fleischman (BERGMAN & AL., 2004; TSVETANOV & AL., in press). Similar is the case with *Campanula trichocalycina* Ten., wrongly reported for the country instead of *Asyneuma pichleri* (Vis.) Lakušić & P. Conti (LAKUŠIĆ & CONTI, 2004). Following the critical review of the status five species have been excluded from *Rosa* genus (ZIELIŃSKI & AL., 2004).

The issue with the introduction of anthropophytes in the flora is extremely important now-a-days (PETROVA & VLADIMIROV, 2002). The following have been

registered for the first time in the country: *Fallopia × bohemia* (Chrtek & Chrtekova) J. P. Baylei, *Helianthus tuberosus* L., *Solidago gigantea* Ait., *Bidens frondosa* L., *Sycios angulatus* L., *Parthenocissus quinquefolia* (L.) Planch. (PETROVA, ANT., 2006; ŠUMEROVA & AL., 2004; TZONEV, 2005; VLADIMIROV, 2003, 2006). The authors judgments have justified the inclusion of some other adventive species in the previous edition – *Armoracia rusticana* (Lam.) P. Gaertn., *Fraxinus americana* L., *F. pensylvanica* H. Marshall, *Gleditsia triacanthos* L., *Opuntia tortispina* Engel, *O. vulgaris* Mill. (= *O. compressa* (Salisb.) Macbr.), *Robinia pseudoacacia* L.

Given that our interests as botanists are especially concerned with the floristic studies, the philosophy of the Conspectus is to present in a visual manner the species distribution in the country and to facilitate its clarifying. In this relation, the design accepted for the previous editions is also kept in the current one. However, it has imposed certain limitations. At first place this is the lack of synonyms, intraspecific taxa and comments. Therefore, in a number of cases it has been especially difficult for us to take decision on the name under which an individual taxon to be included in the Conspectus, as well as on the mode of inclusion of taxa for which volume different visions exist. Considering that the edition is addressing not only the professional botanists but a large range of readers we have tried to be as practical as possible preferring the popular in the Bulgarian botanic literature names or taxonomic concepts. For example, *Centaurea* genus has been discussed in the broad sense, including in its volume also the genera *Cyanus*, *Rhaponticoides* and *Colymbada*. The same refers to some species, for example. *Montia fontana* L. Despite of this, more than 30 changes in names of the different species have been accepted for nomenclature reasons. Undoubtedly, the Synonym glossary of the vascular plants in Bulgaria elaborated under a project of The Institute of Botany, BAS is more than needed and will fill an important gap in the Bulgarian botanic literature.

Concerning the abbreviating of the plant author names the present edition has tried to follow the standard of BRUMMITT & POWEL (1992). Some boring inaccuracies in the spelling of the species names have been corrected, although part of them are also present in some of the main sources for the Bulgarian flora.

Similar to the previous edition the chorological information has been updated with information from the available literature, with the results from the review of the Bulgarian herbaria and with our own unpublished data. A total of some 1,500 changes in the species distribution by floristic regions have been reflected in the Conspectus. They result from summarizing the data of the above cited sources as well as other 121 publications, both contemporary and historical, the data of which have been neglected by other summarizing publications (ALBACH & VLADIMIROV, 2002; ANČEV & POLATSCHEK, 2006; ASSYOV & VASSILEV, 2004; ATANASOVA & MARINOVA, 2005; BANCHEVA, in press; BANCHEVA & DELCHEVA, 2004; BANCHEVA & GREILHUBER, 2006; BANCHEVA & AL., 2002, 2004; BONDEV & AL., 1967; CHERNEVA, 2003; ČESMEDŽIEV, 1977; ČESMEDŽIEV & STOJCHEV, 1994; DELIPAVLOV, 2000; DELIPAVLOV & CHESHMEDZHIEV 2003; DENCHEV, 1970; DIMITROV, 2002a, 2002b, 2002c, 2002d, 2004; 2005, DIMITROV & ASSYOV, 2003; места се тук

DIMITROV & PAVLOVA, 2002; DIMITROV & SIDJIMOVA, 2003; DIMITROV, & TZONEV, 2002; DIMITROV, & VUTOV, 2004; 2006, DIMOVA & VLADIMIROV, 2006; DIMOVA & AL. 2002; FILIPOVA-MARINOVA, & PETROVA, 2003; GANCHEV, & DENCHEV, 1965, 1967, 1971; GANCHEV, & KOCHEV, 1963, 1968; GEORGIEVA, 2000; GERASIMOVA & AL., 2003; GORANOVA, & VASSILEV, in press; GROZева, & GEORGIEVA, 2004; GROZева, & AL., 2004; GUSSEV & AL., 2005; HÁJEK & AL., 2005; IVANOVA, 1997, 1999, 2003; IVANOVA, & AL. 2005; JORDANOV, 1966; JORDANOV & KOCHEV, 1973; JORDANOV & AL, 1965a,b, 1974; KIRSCHNER, 1991, 1992; KOSTADINOVA & DIMITROV, 2002; MEYER, 1985; MILANOVA, & GUSSEV, 2002; PANOV, 1972, 1996; PAVLOVA, 2004, 2006; PAVLOVA, & TOSHEVA, 2002; PAVLOVA, & AL, 2006; PEDASHENKO, submitted; PEEV & VASILEV, 1972; PETROVA, 2000; PETROVA, ANT., 2004a, 2004b, 2004c, 2005, 2006; PETROVA, ANT. & AL., 1998, 2004, 2006; PETROVA, ANT. & AL., submitted; PETROVA, ANT. & AL, in prep.; RADKOV, 2003; RADOSLAVOVA, 2002; SAVCHEV, 1969; SOPOTLIEVA & PETROVA, ANT., 2001, 2002; STEFANOV & BUNKOV, 1971; STANEV, 1969, 1970, 1971, 1979a, b, 2005; STOЕVA, & POPOVA, 1993; STOЕVA & AL., 2005; STOYANOV, K., 2005; STOYANOV, S., 2004, 2005; ŠUMBEROVA, & AL., 2004; TASHEV, 2003; TOSHEVA, 2004; 2005; TOSHEVA, & PAVLOVA, 2003; TRIFONOV, 2005; TSVETANOV & AL.;in press; TZONEV, & ŠUMBEROVÁ, 2004; TZONEV, in press; UZUNOVA & UZUNOV, 2005; VALEV, 1963; 1968; VASSILEVA & VIHODCEVSKY, 1974; VELČEV & BONDEV, 1964, 1965, 1975; VELČEV & VASSILEV, 1969, 1971, 2002b; VELČEV & AL., 1968, 1973; VIHODCEVSKY, 1963, 1968, 1977; VLADIMIROV, 2001a, 2001b, 2006; VUTOV & DIMITROV, 2002; ZAHARIEV & GENOVA, 2005; ŽUKOWSKI, 1993, etc.).

The changes in the distribution have been significant for individual species, for example *Carex panicea* L. (ASSYOV & VASSILEV, 2004; PETROVA, ANT., 2005; PETROVA, ANT. & AL., submitted), *Eleocharis uniglumis* (Link) Schultes (HÁJEK & AL., 2005; PETROVA, ANT., 2005), *Scabiosa argentea* L. (ASSYOV & VASSILEV, 2004; PETROVA, ANT., 2005; PETROVA, ANT. & AL., submitted) etc. Sometimes the specific studies prove that species regarded as rare have in fact been relatively widely distributed in the country. Such are *Buglossoides glandulosa* (Velen.) R. Fern. (KIRYAKOV & PETROVA 2003), *Thesium linophyllum* L. (PETROVA, ANT., ASSYOV, VASSILEV & GORANOVA, in prep.), etc. Examples of precise reflection of chorology have been the papers of IVANOVA (2003), STOYANOV, K. (2005), etc. The rediscovery of species considered since now extinct from the territory of the country, for example *Astragalus physocalyx* Fisch. (STOYANOV & AL., 2006) should also be noted.

The largest is the number of the floristic entries from Stara Planina (over 200), which are mostly connected with the publications of GROZева & AL. (2004) also of DIMITROV, 2005; of PETROVA, ANT., 2004a, as well as some older papers (GANCHEV & DENCHEV, 1965, 1967, 1971, etc.). The number of the new entries for the Rhodopes is also significant, a total of some 150 for the three sub-regions (BANCHEVA & AL., 2004; PAVLOVA, 2004; PETROVA, ANT., 2004c, 2005; PETROVA, ANT. & AL., 2004, 2006, etc.). The third ranks Sredna Gora, where a large number of new reports and older publications from a number of authors exist (ASSYOV & VASSILEV, 2004; DIMITROV, 2002c; PEDASHENKO, submitted; PETROVA, ANT., 2004b; STANEV, 1979a; VELČEV & VASSILEV, 2002, etc.). The genera for which a

substantial volume of new data is present are *Achillea*, *Carex*, *Centaurea*, *Cerastium*, *Silene*.

The experience gained through the three editions of the Conspectus has convinced us in the need of maintenance of updated and accessible data base on the Bulgarian flora composition and the species distribution. This will help avoid the cases of repeated publication of “new” to the country and individual regions species. In this respect the case with *Bellevalia sarmatica* (Pall. ex Georgi) Woronov, published consequently by PRODAN (1939), KITANOV & AL. (1977), BERG & AL. (1989) and DELIPAVLOV (1998) is impressive. Analogous is the situation with *Knautia degenerii* Borb. ex Form., reported by KRÁL (1983), GUSSEV (1998) and DELIPAVLOV & ČEŠMEDŽIEV (1998). We can also add *Carex caespitosa* L. (JORDANOV & al., 1974; STOЕVA & AL., 2005) to this list. Quite often interesting floristic data remain hidden into the karyologic studies for example *Carex elata* All. (STOЕVA, 1994), *Sesleria robusta* Schott, Nym. & Kotschy (PETROVA, 2000).

The comprehension of this substantial factual data on the flora of Bulgaria inevitably brings to certain generalizations. Besides the genera that are traditionally complex in taxonomic terms (for example *Hieracium*, *Rosa*, *Rubus*, *Taraxacum*, etc.), genera emerge which need in-depth exploration to clarify their composition in the Bulgarian flora (*Cerastium*, *Colchicum*, *Dactylorhiza*, *Dianthus*, *Epipactis*, *Gagea*, *Ornithogalum*, *Orobanche*, *Scilla*, *Sesleria*, *Viola*). The genera in which a number of species need actual distribution clarifying are also numerous (*Aegilops*, *Agrostis*, *Arum*, *Bromus*, *Carex*, *Elymus*, *Euphorbia*, *Festuca*, *Iris*, *Phleum*).

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The elaboration of the Conspectus turned out to be a laborious and complex task, which would hardly be successfully accomplished without the cooperation of many colleagues and friends. First of all we wish to cordially thank Ana Petrova, Ph.D. for the publications and data made available, for the readiness to discuss our numerous and diverse questions. We thank for the information, publications and consultations offered by the colleagues Čavdar Gussev, Vladimir Vladimirov, Prof. Iliya Češmedžiev, Prof. Minčo Ančev, Svetlana Bantcheva Ph.D., Stoyan Stoyanov, Rossen Tzonev Ph.D., Valya Goranova, Hristo Pedashenko. Our special thanks for the data provided and the critical comments also go to Daniela Ivanova (on the ferns) and Anita Tosheva (on *Lathyrus* genus). We also thank to the curators of herbaria of the Institute of Botany, BAS (SOM), University of Sofia „St. Kliment Ohridski“ (SO) and the Agrarian University in Plovdiv (SOA) for the kind cooperation. Last but not least we use the opportunity to tanks to the institutions in which we work for the favorable conditions for fruitful work. The new information in the Conspectus is a result of many years of botanical studies in different parts of the country. We thank all friend and colleagues with whom we worked together in the field.

ПРЕДГОВОР КЪМ ВТОРОТО ИЗДАНИЕ

Въпреки своята неголяма територия България разполага с твърде богата и разнообразна флора, обусловена от срединното географско положение на страната, нейния разнообразен ландшафт и превратната геологичка история на нейните земи. Тук се срещат над 3800 вида висши растения (без мъховете), което представлява над половината от общото видово богатство на Балканския полуостров. На този фон в българската флора се развива богат ендемичен елемент, включващ както балкански, така и български ендемити, съставляващи около 8% от растителното богатство на страната (VELCHEV & AL., 1992).

Хорологични данни

Българската флора понастоящем се смята за сравнително добре проучена във флористично отношение (REEV & AL., 1993). Активните изследвания през последните години, довели до натрупването на голямо количество данни (сф. PETROVA, A., 2001), дават обаче основания да се каже, че процесът все още не е завършил. Разпознаването и описването на нови за науката таксони, в т.ч. и с видов ранг, е нерядко събитие (ANČEV & POLATSCHEK, 1998; ČEŠMEDŽIEV, 1997; DELIPAVLOV, 1990, 1998; ERBEN, 1989; PANOV, 1996; PAVLOVA & AL., 1999; SZELAG, 2001). В резултат на таксономични проучвания се потвърждава стойността на таксони, пренебрегвани от чуждестранните изследователи (MARHOLD & ANČEV, 1999) или се коригират схващанията за видовата принадлежност на представители на българската флора (DELIPAVLOV, 1987; PAVLOVA & KOZNUHAROV, 1994).

С настоящия Конспект се цели натрупаната информация да стане достъпна за по-широк кръг ботаници и любители. При неговото съставяне за таксономична база е възприет Определител на висшите растения в България (KOZNUHAROV, 1992), като са внесени необходимите допълнения. Изключение е направено за семейство *Orchidaceae* (по PETROVA, ANT. & AL., ined.) и родовете *Allium* L. (по Чешмеджиев в DELIPAVLOV, 1992a, 413-418 pp.), *Verbascum* L. (по Стефанова-Гатева в JORDANOV, 1995, 26-30 pp.), *Linaria* L. (по Делипавлов & Попова в JORDANOV, 1995, 111-124 pp.), както и за някои родове от семейство *Brassicaceae* (по ANČEV, 2001). Използвана е многотомната академична "Флора на Република България" (JORDANOV, 1964-1995). Описаните от различни автори нови за науката таксони са възприети така, както са били публикувани, като съставителите са се въздържали да вземат отношение по техния статус (с изключение на видовете, описани от GEORGIEV, D., 1997, при чието обнародване авторът не е спазил правилата на Международния кодекс за ботаническа номенклатура).

Включени са новосъобщените или потвърдени за България видове, отнасящи се понякога към нови за страната родове и дори семейства (ANČEV &

GORANOVA, 1997; BANCHEVA & DENCHEV, 2000; BERG & AL., 1989; ČEŠMEDŽIEV, 1988; DELIPAVLOV, 1980, 1990, 1992b, 1998, 1999; DELIPAVLOV & ČEŠMEDŽIEV, 1984a, b, 1989; DELIPAVLOV & STOJCHEV, 1994; DENEVA & LJUBENOVA, 1996; DIMITROV, 1997, 1998; DIMITROV & DENCHEV, 1999; DIMITROV & LAZAROV, 2001; DIMITROV & AL., 1997, 2001; GERASIMOVA & AL., 1998; GUSSEV, 1997; GUSSEV & DIMITROV, 1997; GUSSEV & AL., 1997; GUSSEV, DENCHEV & AL., 1998; GUSSEV, UZUNOV & AL., 1998; KITANOV & AL., 1987; KOCHEVA & DIMITROV, 1997; LINDING & LINDING, 1991; MARKOVA & CHERNEVA, 1984; NIKETIĆ, 2000; PASHALIEV & DIMITROV, 1994; PAVLOVA & KOZHUHAROV, 1994; PAVLOVA & AL., 1997, 2000; PETROVA, ANT., & AL., 1998; ROUSSAKOVA, 1995, 1996; SIERING & HENNING, 1989a, b, c; STOJAVA, 1991; STOJANOV, S., 1998; TAN & VLADIMIROV, 2001; TASHEV, 2002; VELCHEV & AL., 1989; ZIELINSKI, 1992).

Отразени са резултатите от ревизиите на българските представители на родовете *Avena* L. (DELIPAVLOV, 1999) и *Crataegus* L. (cf. ZIELINSKI & AL., 2001), както и някои данни от дисертационните разработки върху род *Achillea* L. секция *Filipendulinae* (NEDELCHEVA, 1998) и род *Centaurea* L. секции *Cyanus* и *Lepteronthus* (BANCHEVA, 1999).

Хорологичната информация, представена в Конспекта, е актуализирана с достъпните новопубликувани съобщения за разпространението на отделни видове в страната (APOSTOLOVA & DENCHEV, 1997; BONDEV & LJUBENOVA, 1984; CHERNEVA, 1997; ČEŠMEDŽIEV & VODENICHAROV, 1998; ČEŠMEDŽIEV & AL., 1998; DELIPAVLOV, 1988, 1990, 1992b, 1998; DELIPAVLOV & ČEŠMEDŽIEV, 1984a, b, 1989, 1997; DELIPAVLOV & STOJCHEV, 1994; DELIPAVLOV & AL., 1984; DENCHEV & AL., 1997, 2000; DIMITROV, 1988, 1990, 1991, 1994a, b, 1995, 2002; DIMITROV & DENCHEV, 1997, 1999; DIMITROV & GEORGIEV, 1999; DIMITROV & GUSSEV, 1994; DIMITROV & LAZAROV, 2001; DIMITROV & NIKOLOV, 1998; DIMITROV & PAVLOVA, 2000; DIMITROV & VUTOV, 2000; GEORGIEV, V., 1997; GUSSEV & NOVOSELSKI, 1997; GUSSEV & AL., 1997, 1998a, b; KITANOV & AL., 1987; KOCEVA & DIMITROV, 1994; MESHINEV & AL., 2000; NEDELCHEVA, 1998; NYAGOLOV & AL., 2001; PASHALIEV & DIMITROV, 1994; PASHALIEV, 1995; PAVLOVA & NEDELCHEVA, 2001; PAVLOVA & AL., 1997; PETROVA, ANT. & AL., 1998, 1999, 2001; SOPOTLIEVA & PETROVA, ANT., 2001; STOJANOV & GEORGIEV, 2001; TASHEV, 2001; TZONEV, 1997, 2000; UZUNOV, 1997; UZUNOV & AL., 1998; VLADIMIROV, 2001a, b; VLADIMIROV & KOZHUHAROV, 1999; VUTOV & DIMITROV, 2000a, b; ZHELEV & GOGUSHEV, 2000). Отразени са сведенията, получени от проучванията в рамките на Българо-Швейцарската програма за опазване на биоразнообразието (1994–2000), както и резултатите от ревизиите на хербарните колекции на Софийския университет (SO) и Висшия селско-стопански институт – гр. Пловдив (SOA, IAP). Използвани са също така и няколко по-стари съобщения и ревизии, по една или друга причина останали неотразени в основните литературни източници (BONDEV & AL., 1976, 1979; BROWICZ & ZIELINSKI, 1977; GANCHEV & DENCHEV, 1971; GANCHEV & KOCHEV, 1963, 1968; HINKOVA, 1960; JORDANOV & MARKOVA, 1970; JORDANOV & AL., 1965, 1968; PANOV, 1975a, b, c, 1978; STOJANOV, N., 1965; VELCHEV & AL., 1966).

Отпадат от състава на българската флора *Achillea biebersteinii* Afan. (по NEDELCHEVA, 1998), *Astragalus fraxinifolius* DC. (PAVLOVA & KOZHUHAROV, 1994) и *Celtis caucasica* Willd. (BROWICZ & ZIELINSKI, 1977), тъй като съобщенията за тях се базират на погрешно определени материали. Дискусионен е въпросът за намирането у нас на *Adenophora liliifolia* (L.) DC., *Aruncus dioicus* (Walter) Fernald, *Dactylorhiza majalis* (Reichenb.) P. F. Hunt et Summerhayes, *Globularia trichosantha* Fisch. et C. A. Meyer, *Teucrium botrys* L. и др., от които в българските хербариуми няма съхранени образци; поради това тези видове не са включени в Конспекта.

Потвърдено е разпространението на *Aldrovanda vesiculosa* L. (BAEVA, 1992), *Carex rupestris* Bell. ex All., *Hammarbia paludosa* (L.) O. Kuntze (VODENICHAROV & VASSILEV, 1999), *Lathyrus pančićii* (Juris.) Adam. (PETROVA, ANT., APOSTOLOVA & GEORGIEV, in prep.) и *Viola pumila* Chaix (ANDREEV, 1993), считани доскоро за изчезнали от нашата флора. Присъствието в България на видове като *Ammania verticillata* (Ard.) Lam., *Angelica archangelica* L., *Astragalus cornutus* Pallas, *Caldesia parnassifolia* (Bassi) Parl., *Hypericum setiferum* Stefanov, *Liparis loeselii* (L.) L. C. Richard, *Salix rosmarinifolia* L., *Tetragonolobus maritimus* (L.) Roth, *Theligonium cynocrambe* L. в наши дни е несигурно (VELCHEV, 1984), но те остават част от българската флора. Това важи и за *Arnica montana* L., идентифицирана по хербарни материали от Д. Димитров по време на работата по изготвянето на Конспекта.

В Конспекта са включени непубликувани до момента данни за разпространението на някои нови или потвърдени за страната видове. Подробна информация за тези находки ще бъде съобщена другаде (DIMITROV & ASSYOV, submitted; DIMITROV & SIDJIMOVA, submitted; KOSTADINOVA & DIMITROV, submitted; TZONEV & ZIELINSKI, accepted; PETROVA, ANT. & AL., ined., DIMITROV, ined.).

Известните за българската флора хиbridни комбинации не са отразени в това издание. Обстоен преглед на хибридите при българските висши растения е направен от ANČEV (1984).

Разпространението на отделните видове следва възприетата във "Флора на НР България" (JORDANOV, 1966) фитogeографска подялба, тъй като това осигурява лесна връзка между Конспекта и предишни флористични издания. Надморските височини за по-голямата част от видовете са посочени по KOZHUHAROV (1992). Корекции има за видовете, за които в цитираната литература има посочени различни данни за горната или долната граница на вертикално разпространение, и в случаите, когато съставителите имат лични конкретни наблюдения.

Заштитените видове са отбелязани на основата на списъка в Приложение 3 на Проектозакона за опазване на биоразнообразието, който е в процес на приемане от Народното събрание на Република България.

Флорни елементи

Флорен елемент е група от видове, произлизации от един и същ флорен район. Географското положение на България обуславя значително разнообразие на флорни елементи. Долините на реките Струма, Места, Марица и Арда, както и южните части на Черноморското крайбрежие са пътища за навлизането в българската флора на множество средиземноморски елементи. Някои от тях достигат на север до южните склонове на старопланинската верига, където на места се формират медитерански оазиси. Уникална по своя характер е флората на Странджа планина, с наличието в нея на реликтни евксински видове. От югоизток в нашата флора проникват някои предноазиатски елементи, а в североизточна посока тя се обогатява и с понтийски видове, характерни за степите на Северното Черноморие и Каспийско море. От северозапад старопланинската верига е важен път за навлизането на алпо-карпатски геоелементи, а в югозападна посока, по планинските масиви на Осоговска планина, Влахина, Огражден и Пирин, развитие получава и скардо-пиндският ендемичен флорен елемент. Отделна група са настаниите се у нас в резултат на човешка дейност чуждоземни видове, които в това издание са означени като адвентивни, независимо от времето и начина на пристигането им (виж PETROVA, A. & VLADIMIROV, 2001).

В настоящия Конспект отнасянето на видовете към даден флорен елемент е направено по класификацията на Walter, с някои изменения и допълнения.

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В изданието вероятно могат да бъдат открити пропуски и неточности. На всички, които чрез своите критични бележки ще спомогнат те да бъдат отстранени, съставителите изказват предварително своята благодарност. Коментари, забележки и нови хорологични данни са очаквани на електронен адрес: flora_bg@dir.bg.

INTRODUCTION TO THE SECOND EDITION

In spite of the its small territory Bulgaria boasts of quite rich and diverse flora, which is due to the medial geographic location of the country, its varied landscape and the turns in its geological history of its lands. More than 3800 higher plants species (without the mosses), which is more than half of the flora on the Balkan peninsula, occur there. On this background the Bulgarian flora features a rich endemic component including both Balkan and Bulgarian endemic species, which constitute about 8% of the country's flora (VELCHEV & AL., 1992).

Plant distribution data

Presently the Bulgarian flora is considered to be comparatively well studied in floristic respect (PEEV & AL., 1993). However, the active research in the last few years, which led to the accumulation of quite a big amount of new data (cf. PETROVA, A., 2001), shows that the study process cannot be considered completed. The identifying and describing of taxa new for the science, including such ranking as species, is not an infrequent event (ANČEV & POLATSCHEK, 1998; ČEŠMEDŽIEV, 1997; DELIPAVLOV, 1990, 1998; ERBEN, 1989; PANOV, 1996; PAVLOVA & AL., 1999; SZELAG, 2001). Taxonomical studies confirm the value of taxa neglected by foreign researchers (MARHOLD & ANČEV, 1999) or correct the understanding of the species affiliation of some elements of the Bulgarian flora (DELIPAVLOV, 1987; PAVLOVA & KOZHUHAROV, 1994).

This Conspectus aims at bringing the existing information to a broader circle of botanists and students. In the compiling of this book the taxonomic basis used by KOZHUHAROV in "Identification guide to the vascular plants in Bulgaria" (1992) has been used with some additions and amendments. Exceptions have been made for the family of *Orchidaceae* (according to PETROVA, ANT. & AL., ined.), for the genera *Allium* L. (according to Češmedžiev in DELIPAVLOV, 1992a, 413-418 pp.), *Verbascum* L. (according to Stefanova-Gateva in JORDANOV, 1995, 26-30 pp.), *Linaria* L. (according to Delipavlov in JORDANOV, 1995, 111-124 pp.), and certain genera of the family of *Brassicaceae* (ANČEV, 2001). The academic multi-volume work "Flora of the Republic of Bulgaria" (JORDANOV, 1964-1995) has been largely used. The species newly described by different authors have been added the way they have been published and the compilers do not express opinion on their status (except for the species described by GEORGIEV, D., 1997, published by the author contrary to the rules of the International Code for Botanical Nomenclature).

New plant species for the Bulgarian flora reported or confirmed recently, sometimes belonging to genera and even families new for the country, are also included in the Conspectus (ANČEV & GORANOVA, 1997; BANCHEVA & DENCHEV, 2000; BERG & AL.,

1989; ČEŠMEDŽIEV, 1988; DELIPAVLOV, 1980, 1990, 1992b, 1998, 1999; DELIPAVLOV & ČEŠMEDŽIEV, 1984a, b, 1989; DELIPAVLOV & STOJCHEV, 1994; DENEVA & LJUBENOVA, 1996; DIMITROV, 1997, 1998; DIMITROV & DENCHEV, 1999; DIMITROV & LAZAROV, 2001; DIMITROV & AL., 1997, 2001; GERASIMOVA & AL., 1998; GUSSEV, 1997; GUSSEV & DIMITROV, 1997; GUSSEV & AL., 1997; GUSSEV, DENCHEV & AL., 1998; GUSSEV, UZUNOV & AL., 1998; KITANOV & AL., 1987; KOCEVA & DIMITROV, 1997; LINDING & LINDING, 1991; MARKOVA & CHERNEVA, 1984; NIKETIĆ, 2000; PASHALIEV & DIMITROV, 1994; PAVLOVA & KOZHUHAROV, 1994; PAVLOVA & AL., 1997, 2000; PETROVA, ANT., & AL., 1998; ROUSSAKOVA, 1995, 1996; SIERING & HENNING, 1989a, b, c; STOEVA, 1991; STOJANOV, S., 1998; TAN & VLADIMIROV, 2001; TASHEV, 2002; VELCHEV & AL., 1989; ZIELINSKI, 1992).

The results of the revisions of the Bulgarian representatives of genera *Avena* L. (DELIPAVLOV, 1999) and *Crataegus* L. (cf. ZIELINSKI & AL., 2001) have been taken into account, as well as data from works on genus *Achillea* L. section *Filipenduliniae* (NEDELCHEVA, 1998) and genus *Centaurea* L. sections *Cyanus* and *Lepteteranthus* (BANCHEVA, 1999).

The data, concerning the distribution of the species throughout the country have been updated with a review of the newly published articles on the Bulgarian flora (APOSTOLOVA & DENCHEV, 1997; BONDEV & LJUBENOVA, 1984; CHERNEVA, 1997; ČEŠMEDŽIEV & VODENICHAROV, 1998; ČEŠMEDŽIEV & AL., 1998; DELIPAVLOV, 1988, 1990, 1992b, 1998; DELIPAVLOV & ČEŠMEDŽIEV, 1984a, b, 1989, 1997; DELIPAVLOV & STOJCHEV, 1994; DELIPAVLOV & AL., 1984; DENCHEV & AL., 1997, 2000; DIMITROV, 1988, 1990, 1991, 1994a, b, 1995, 2002; DIMITROV & DENCHEV, 1997, 1999; DIMITROV & GEORGIEV, 1999; DIMITROV & GUSSEV, 1994; DIMITROV & LAZAROV, 2001; DIMITROV & NIKOLOV, 1998; DIMITROV & PAVLOVA, 2000; DIMITROV & VUTOV, 2000; GEORGIEV, V., 1997; GUSSEV & NOVOSELSKI, 1997; GUSSEV & AL., 1997, 1998a, b; KITANOV & AL., 1987; KOCEVA & DIMITROV, 1994; MESHINEV & AL., 2000; NEDELCHEVA, 1998; NYAGOLOV & AL., 2001; PASHALIEV & DIMITROV, 1994; PASHALIEV, 1995; PAVLOVA & NEDELCHEVA, 2001; PAVLOVA & AL., 1997; PETROVA, ANT. & AL., 1998, 1999, 2001; SOPOTLIEVA & PETROVA, ANT., 2001; STOJANOV & GEORGIEV, 2001; TASHEV, 2001; TZONEV, 1997, 2000; UZUNOV, 1997; UZUNOV & AL., 1998; VLADIMIROV, 2001a, b; VLADIMIROV & KOZHUHAROV, 1999; VUTOV & DIMITROV, 2000a, b; ZHELEV & GOGUSHEV, 2000). The results of studies carried out in the framework of the Bulgarian-Swiss Biodiversity Conservation Programme (1994-2000) and of the revisions of the herbarium collections of Sofia University "St. Kliment Ohridski" (SO) and the Higher Agricultural Institute – Plovdiv (SOA and IAP) are also included in the Conspectus. Some previous publications, not reflected in the main literary sources, have also been used (BONDEV & AL., 1976, 1979; BROWICZ & ZIELINSKI, 1977; GANCHEV & DENCHEV., 1971; GANCHEV & KOCHEV, 1963, 1968; HINKOVA, 1960; JORDANOV & MARKOVA, 1970; JORDANOV & AL., 1965, 1968; PANOV, 1975a, b, c, 1978; STOJANOV, N., 1965; VELCHEV & AL., 1966).

Some species have been removed from the list of the Bulgarian flora, since their publication has been based on misidentification: *Achillea biebersteinii* Afan. (NEDELCHEVA, 1998), *Astragalus fraxinifolius* DC. (PAVLOVA & KOZHUHAROV, 1994) and *Celtis caucasica* Willd. (BROWICZ & ZIELINSKI, 1977). The distribution in Bulgaria of some other species is contestable, since no sample material of them is available in the Bulgarian herbaria: *Adenophora liliifolia* (L.) DC., *Aruncus dioicus* (Walter) Fernald, *Dactylorhiza majalis* (Reichenb.) P. F. Hunt et Summerhayes, *Globularia trichosantha* Fisch. et C. A. Meyer, *Teucrium botrys* L. and others. Therefore they have not been included in the present Conspectus.

The presence of species until recently considered extinct from the Bulgarian flora has been confirmed: *Aldrovanda vesiculosa* L. (BAEVA, 1992), *Carex rupestris* Bell. ex All., *Hammarbia paludosa* (L.) O. Kuntze (VODENICHAROV & VASSILEV, 1999), *Lathyrus pannicilli* (Juris.) Adam. (PETROVA, ANT., APOSTOLOVA & GEORGIEV, in prep.) and *Viola pumila* Chaix (ANDREEV, 1993). The presence of other species nowadays remains doubtful (VELCHEV, 1984) - *Ammania verticillata* (Ard.) Lam., *Angelica archangelica* L., *Astragalus cornutus* Pallas, *Caldesia parnassifolia* (Bassi) Parl., *Hypericum setiferum* Stefanov, *Liparis loeselii* (L.) L. C. Richard, *Salix rosmarinifolia* L., *Tetragonalobus maritimus* (L.) Roth, *Theligonum cynocrambe* L.; - but they are still part of the Bulgarian flora. This is valid also for *Arnica montana* L., identified by Dr. D. Dimitrov in the herbaria during the preparation of the Conspectus.

Some unpublished data of new or confirmed species of the Bulgarian flora have also been included in this Conspectus. Detailed information about these findings will be reported elsewhere (DIMITROV & ASSYOV, submitted; DIMITROV & SIDJIMOVA, submitted; KOSTADINOVA & DIMITROV, submitted; TZONEV & ZIELINSKI, accepted; PETROVA, ANT. & AL., ined., DIMITROV, ined.).

The known hybrid combinations in the Bulgarian flora have not been included in this publication. Comprehensive review of the hybrids of the higher Bulgarian plants has been made by ANČEV (1984).

In order to ensure the compatibility with previous publications, the phytogeographic division accepted by "Flora of the Republic of Bulgaria" (JORDANOV, 1966) has been used. The altitudes of distribution are given according to KOZHUHAROV (1992), corrected whenever the cited sources are indicating different figures for the vertical distribution, or whenever the compilers have personal observations.

The protected species are marked according to the Annex 3 of the draft Law on biodiversity, in process of adoption by the Parliament of Republic of Bulgaria.

Floristic elements

A floristic element is a group of species originating from the same floristic region, which determine their appearance of a certain geographical region. Bulgaria's geographic location is the reason for the considerable diversity of floristic elements in its flora. Many Mediterranean elements enter along the valleys of the bigger rivers in southern Bulgaria – the Struma, the Mesta, the Maritsa, the Arda – and along the southern Black Sea coast. Mediterranean oases exist even on the southern slopes of the Balkan Mountain. The flora of the Strandja Mountain is unique for Europe with its relict Euxinic elements. Some Middle Eastern elements penetrate from the southeast and Pontic elements, typical for the steppes of the northern Black Sea and the Caspian Sea coasts, enter from the northeast. Alpine – Carpathian geo-elements enter from the northwest, mainly along the Balkan Mountain chain. Scardic elements penetrate from the southwest, following the orientation of the mountain massifs of the Osogovska Mountain, Vlahina, Ograzhden, Belasitsa and Pirin. The alien plants that have found their place in the Bulgarian flora due to human intervention are also included in the current edition and are termed adventives, regardless of the way and the time they have come (see PETROVA, A. & VLADIMIROV, 2001).

In the current Conspectus the species of the Bulgarian flora are affiliated to a certain floristic element on the basis of the classification done by Walter, with some amendments and completions.

Acknowledgements

The compilers express their gratitude to Dr. Pierre Galland and to Prof. Ilia Cheshmedjiev for their critical remarks on the whole edition, to Dr. Tenyo Meshinev, and Dr. Iva Apostolova for their kind co-operation and valuable advise during the preparation of this publication, to Rossen Tsonev for the unpublished data, and to the technical assistants Plamen Stoyanov, Vladimir Trifonov, Zvezdelina Stoyanova for their precise work. The authors owe special thanks to the Bulgarian-Swiss Biodiversity Conservation Programme and the Swiss League for Nature Protection Pro Natura for the financial support.

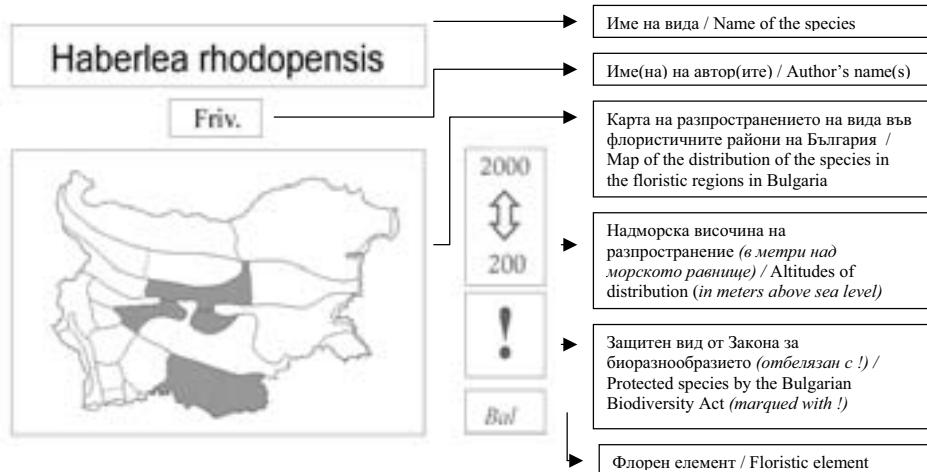
The present Conspectus may contain certain omissions and inaccuracies. The compilers would be very grateful to anyone who would help to find and eliminate them. Please send your comments, notes or new plant distribution data to: *flora_bg@dir.bg*.

Използване на Конспекта

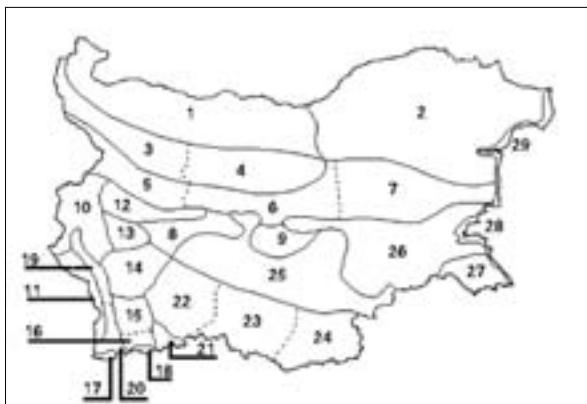
Този Конспект включва информация за разпространението и консервационното значение на 3996 вида висши растения, подредени по азбучен ред. Всеки вид разполага със следните полета с информация :

How to use the Conspectus

This Conspectus provides information on the distribution and the conservation status of 3996 species of plants, listed in alphabetical order. The following data fields are available for each species:



Флористични райони и подрайони / Floristic regions and sub-regions in Bulgaria



1. The Danubian Plain
2. North-Eastern Bulgaria
3. The Predbalkan (West)
4. The Predbalkan (East)
5. Stara Planina (the Balkan) (West)
6. Stara Planina (the Balkan) (Central)
7. Stara Planina (the Balkan) (East)
8. Sredna Gora (West)
9. Sredna Gora (East)
10. Znepole Region
11. West Frontier Mountains
12. Sofia Region
13. Vitosha Region
14. The Rila
15. The Pirin (North)
16. The Pirin (South)
17. The Belasitsa
18. The Slavianska
19. The Struma Valley (North)
20. The Struma Valley (South)
21. The Mesta Valley
22. The Rhodopes (West)
23. The Rhodopes (Central)
24. The Rhodopes (East)
25. Thracian Plane
26. The Tundja Hilly Plane
27. The Strandja
28. The Black Sea coast (South)
29. The Black Sea coast (North)

1. Дунавска равнина
2. Североизточна България
3. Предбалкан (западен)
4. Предбалкан (източен)
5. Стара Планина (западна)
6. Стара Планина (централна)
7. Стара планина (източна)
8. Средна гора (западна)
9. Средна гора (източна)
10. Знеполски район
11. Западни гранични планини
12. Софийски район
13. Витошки район
14. Рила
15. Пирин (северен)
16. Пирин (южен)
17. Беласица
18. Славянка
19. Долината на Струма (северна)
20. Долината на Струма (южна)
21. Долината на Места
22. Родопи (западни)
23. Родопи (средни)
24. Родопи (източни)
25. Тракийска равнина
26. Тундженска равнина
27. Странджа
28. Черноморско крайбрежие (южно)
29. Черноморско крайбрежие (северно)

Карта на флорните елементи / Map of the floristic elements



Флорни елементи / Floristic elements

Adv	адвентивен	Adventive	Eux	евксински	Euxinian
Afr	африкански	African	Hybr	хиbridен	Hybridogenous
Alp	алпийски	Alpine	Jap	японски	Japanese
Anat	анатолийски	Anatolian	Kos	космополитен	Cosmopolitan
Ap	апенински	Apenninian	Med	средиземноморски	Mediterranean
Am	американски	American	OT	ориентало-турически	Oriental-Turanian
Arct	арктически	Arctic	Paleo (Adv)	палео-адвентивен	Paleoadventive
As	азиатски	Asiatic	Pann	панонски	Pannonian
Atl	атлантически	Atlantic	Pont	понтийски	Pontic
Bal	балкански	Balkan	Sib	сибирски	Siberian
Boreal	boreален	Boreal	<u>Prefixes:</u>		
Bul	български	Bulgarian	sub-	суб-	sub
Carp	карпатски	Carpathian	S-	южно-	south
Cauc	кавказки	Caucasus	W-	западно-	west
Ch	китайски	Chinese	N-	северно-	north
Dac	дакийски	Dacian	C-	централно-	central
Eur	европейски	European			

Abies alba
Mill.

2000

400

Boreal

Abies borisii-regis
Mittf.

2000

400

Bal

Abutilon theophrasti
Medicus

700

400

Eur-As

Acalypha virginica
L.

700

400

Adv

Acanthus balcanicus
Heywood & I. Richardson

1000

400

Bal

Acanthus spinosus
L.

700

400

Med

Acer campestre
L.

1600

400

Eur-OT

Acer heldreichii
Orph.

1900

400

Bal

Acer hyrcanum
Fisch. & C. A. Mey.

1200

400

subMed

Acer monspessulanum
L.

600

400

subMed

Acer negundo
L.

1000

♂

0

Adv

Acer platanoides
L.

1500

♂

500

subMed

Acer pseudoplatanus
L.

1400

♂

100

Eur-Med

Acer tataricum
L.

800

♂

0

subMed

Achillea ageratifolia
(Sm.) Boiss.

2500

♂

500

Bal

Achillea asplenifolia
Vent.

700

♂

400

Pan

Achillea chrysocoma
Friv.

2900

♂

2000

Bal

Achillea clypeolata
Sm.

2000

♂

0

Bal

Achillea coarctata
Poir.

1000

♂

0

Pont-Med

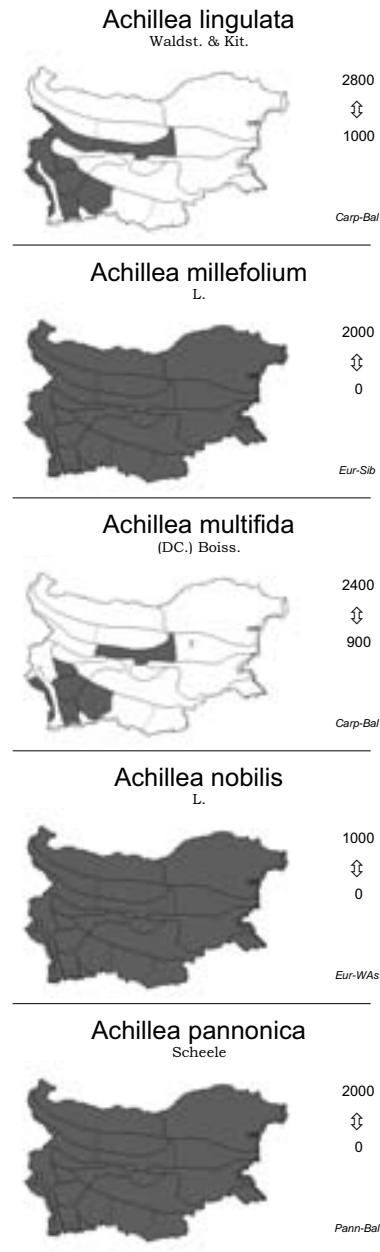
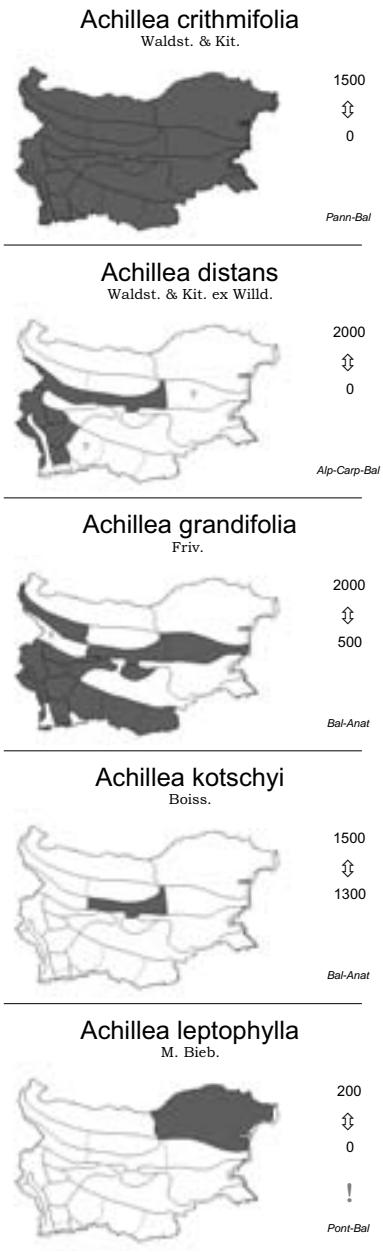
Achillea collina
J. Becker ex Rchb.

1000

♂

0

Eur-subMed



Achillea pseudopectinata
Janka1000
♂
0

Bal

Achillea setacea
Waldst. & Kit.1000
♂
0

subMed

Achillea thracica
Velen.300
♂
0
!

Bul

Achnatherum bromoides
(L.) Beauv.800
♂
0

subMed

Achnatherum calamagrostis
(L.) P. Beauv.800
♂
0

subMed

Acinos alpinus
(L.) Moench2700
♂
500

Alp-Carp

Acinos arvensis
(Lam.) Dandy1000
♂
0

Eur-Med

Acinos rotundifolius
Pers.700
♂
0

Med-CAs

Acinos suaveolens
(Sm.) Don1500
♂
0

subMed

Aconitum anthora
L.

♂

Aconitum burnatii
J. Gay2500
↓
1500*Aconitum lycoctonum*
L.2400
↓
650

subMed

Aconitum variegatum
L.2350
↓
1200

subMed

Acorellus pannonicus
(Jacq.) Palla200
↓
0

Boreal

Acorus calamus
L.500
↓
0

Boreal

Actaea spicata
L.1800
↓
800

Eur-As

Adenostyles alliariae
(Gouan) A. Kern.2000
↓
0

Alp-Carp-Bal

Adiantum capillus-veneris
L.1000
↓
0

! subBoreal

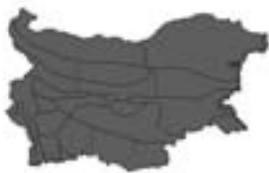
Adonis aestivalis
L.1000
↓
0

Eur-subMed

Adonis annua
L.300
↓
0

subMed

Adonis flammea
Jacq.



1200

♂

0

Eur-subMed

Adonis microcarpa
DC.



300

♂

0

Med

Adonis vernalis
L.



1100

♂

0

Eur-Sib

Adonis volgensis
DC.



300

♂

0

!

Eur-As

Adoxa moschatellina
L.



1500

♂

0

Boreal

Aegilops biuncialis
Vis.



800

♂

0

Med

Aegilops columnaris
Zhuk.



300

♂

0

Pont-CAs

Aegilops comosa
Sm.

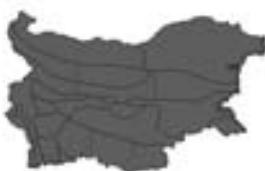


♂

!

Med

Aegilops cylindrica
Host



1000

♂

0

Eur-As

Aegilops geniculata
Roth

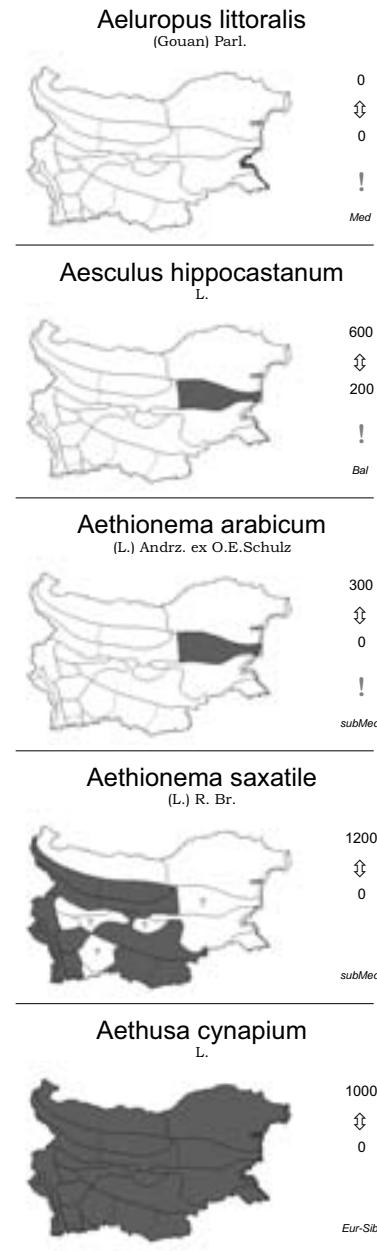
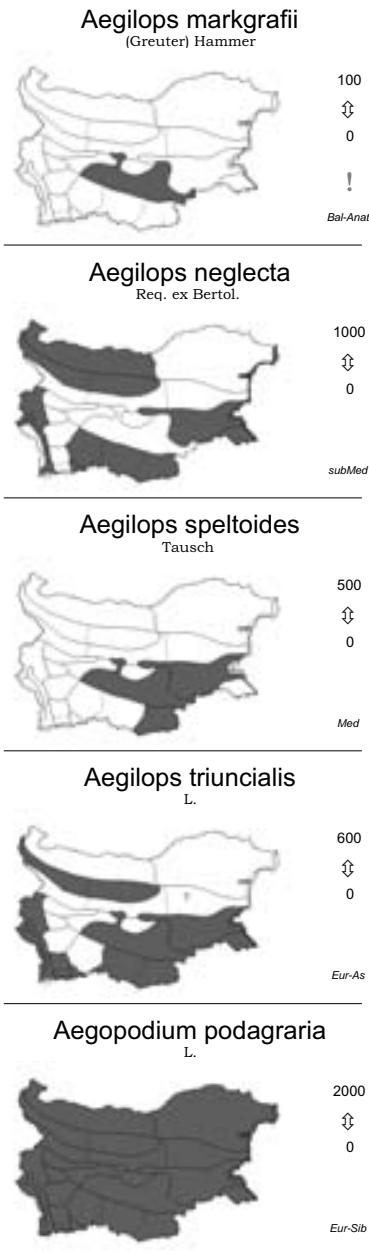


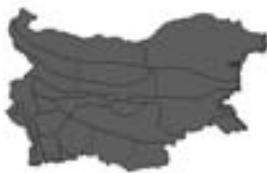
1000

♂

0

Med



Agrimonia eupatoria
L.1500
◻
100*Agrimonia procera*
Wallr.1600
◻
500*Agropyron brandzae*
Panču & Solacolu700
◻
0*Agropyron cristatum*
(L.) Gaertn.1000
◻
0*Agrostemma githago*
L.1400
◻
0*Agrostis canina*
L.1500
◻
0*Agrostis capillaris*
L.2000
◻
0*Agrostis castellana*
Boiss. & Reut.1000
◻
0*Agrostis gigantea*
Roth100
◻
0*Agrostis rupestris*
All.2900
◻
1500

Agrostis stolonifera
L.300
♂
0

Boreal

Agrostis verticillata
Vill.1000
♂
0

Eur-As

Ailanthus altissima
(Mill.) Swingle1000
♂
0

Adv

Aira caryophyllea
L.200
♂
0

subMed

Aira elegantissima
Schur800
♂
0

Med

Ajuga chamaepepitys
(L.) Schreb.2300
♂
0

Pont-Med

Ajuga genevensis
L.1300
♂
0

sPont

Ajuga laxmannii
(L.) Benth.1800
♂
0

SSib

Ajuga pyramidalis
L.2400
♂
1200

Eur-Med

Ajuga reptans
L.2000
♂
0

Eur-Med

Ajuga salicifolia
(L.) Schreb.

800

□

0

subMed

Alcea heldreichii
(Boiss.) Boiss.

1100

□

150

Poni-Med

Alcea pallida
(Waldst. & Kit. ex Willd.) Waldst. et Kit.

1000

□

0

subMed

Alcea rosea
L.

1000

□

0

Med

Alchemilla achtarowii
Pawl.

2100

□

1700

!

Bul

Alchemilla acutiloba
Opiz

2600

□

1200

Eur-Sib

Alchemilla anisiaca
Wettst.

2200

□

2000

Eur

Alchemilla asteroantha
Rothm.

2000

□

1800

!

Bul

Alchemilla bandericensis
Pawl.

2300

□

2300

!

Bul

Alchemilla bulgarica
Rothm.

2500

□

1800

Bal

Alchemilla catachnoa
Rothm.



2300

↓

1800

Bal

Alchemilla cinerea
Buser



2500

↓

1800

Eur

Alchemilla connivens
Buser



2600

↓

1400

Eur

Alchemilla crinita
Buser



2200

↓

1400

Eur

Alchemilla damianicensis
Pawl.



2000

↓

1400

Bul

Alchemilla erythropoda
Juz.



2800

↓

1600

Pont

Alchemilla fissa
Günter & Schummel



2200

↓

1800

Eur

Alchemilla flabellata
Buser



2800

↓

1600

Alp-Carp

Alchemilla glabra
Neygenf.



2400

↓

1800

Eur-Sib

Alchemilla glaucescens
Wallr.



2500

↓

1200

Eur

Alchemilla gorcensis
Pawl.

1800

↓

1000

Carp-Bal

Alchemilla gracilis
Opiz

2500

↓

1500

Eur-Sib

Alchemilla gracillima
Rothm.

2400

↓

1600

Bal

Alchemilla grossidens
Buser

2100

↓

1900

Eur

Alchemilla heterophylla
Rothm.

2300

↓

2000

Bal

Alchemilla incisa
Buser

2500

↓

1600

Alp-Carp-Bal

Alchemilla indivisa
(Buser) Rothm.

2000

↓

1600

Bal

Alchemilla jumrukczalica
Pawl.

1800

↓

1700

Bul

Alchemilla lunaria
Fröhner

↓

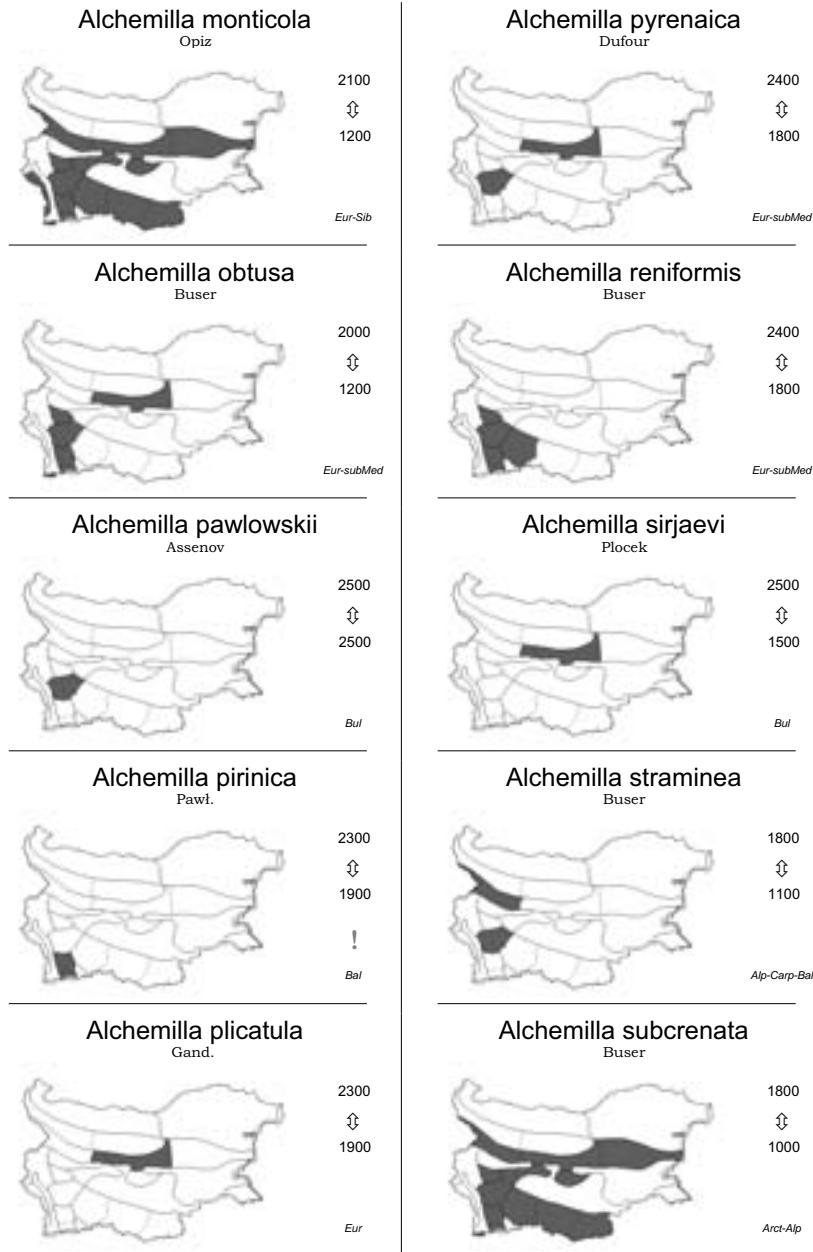
Alchemilla mollis
(Buser) Rothm.

1700

↓

1600

Carp-Bal



Alchemilla viridiflora
Rothm.



1800

↓

1200

Bal

Alchemilla xanthochlora
Rothm.



2100

↓

1200

Eur

Aldrovanda vesiculosa
L.



100

↓

0

Kos

Alisma gramineum
Lej.



1000

↓

0

Boreal

Alisma lanceolatum
With.



1000

↓

0

Boreal

Alisma plantago-aquatica
L.



1000

↓

0

Boreal

Alkanna graeca
Boiss. & Spruner



600

↓

300

Bal

Alkanna jordanovii
Kožuharov



400

↓

0

Bul

Alkanna primuliflora
Griseb.



900

↓

0

Bul

Alkanna stojanovii
Kožuharov



400

↓

0

Bul

Alkanna stribrnyi
Velen.



800

♂

0

!

Bal

Alkanna tinctoria
(L.) Tausch



600

♂

0

!

subMed

Alliaria petiolata
(M. Bieb.) Cavara & Grande



1500

♂

0

Eur-As

Allium albidum
Fisch.ex M. Bieb.



1500

♂

0

Eur-Sib

Allium amethystinum
Tausch



1000

♂

0

43

Allium ampeloprasum
L.



1000

♂

0

Eur-As

Allium angulosum
L.



500

♂

0

Eur-Sib

Allium atropurpureum
Waldst. & Kit.



1000

♂

0

Pont

Allium atroviolaceum
Boiss.



1000

♂

0

Eur-As

Allium carinatum
L.



2900

♂

0

Pont-Med

Allium cirrhosum

Vandas



2000

↓

1000

Allium coppolieri

Tineo



1000

↓

0

Allium cupani

Raf.



2900

↓

1000

Med

Allium cyrilli

Ten.



1000

↓

0

Allium flavum

L.



2900

↓

0

Med

Allium fuscum

Waldst. & Kit.



1000

↓

0

Carp-Bal

Allium guttatum

(Steven) Regel



1000

↓

0

Pont-Med

Allium longispathum

Redouté



1000

↓

0

Allium margaritaceum

Sm.



1000

↓

0

Allium melanatherum

Pančić



2900

↓

1000

Bal

Allium montanum
F. W. Schmidt



2900

♂

2000

!

Eur

Allium moschatum
L.



1000

♂

0

Pont-subMed

Allium nanum
(Asch. & Graebn.) Chescm.



1500

♂

1000

Allium nigrum
L.



1500

♂

0

subMed

Allium oleraceum
L.



2500

♂

0

Eur

Allium paczoskianum
Tuzson



2000

♂

0

Allium pallens
L.



1000

♂

0

Pont

Allium paniculatum
L.



1500

♂

0

Pont-subMed

Allium rhodopaeum
Velen.



1000

♂

0

Bul

Allium rotundum
L.

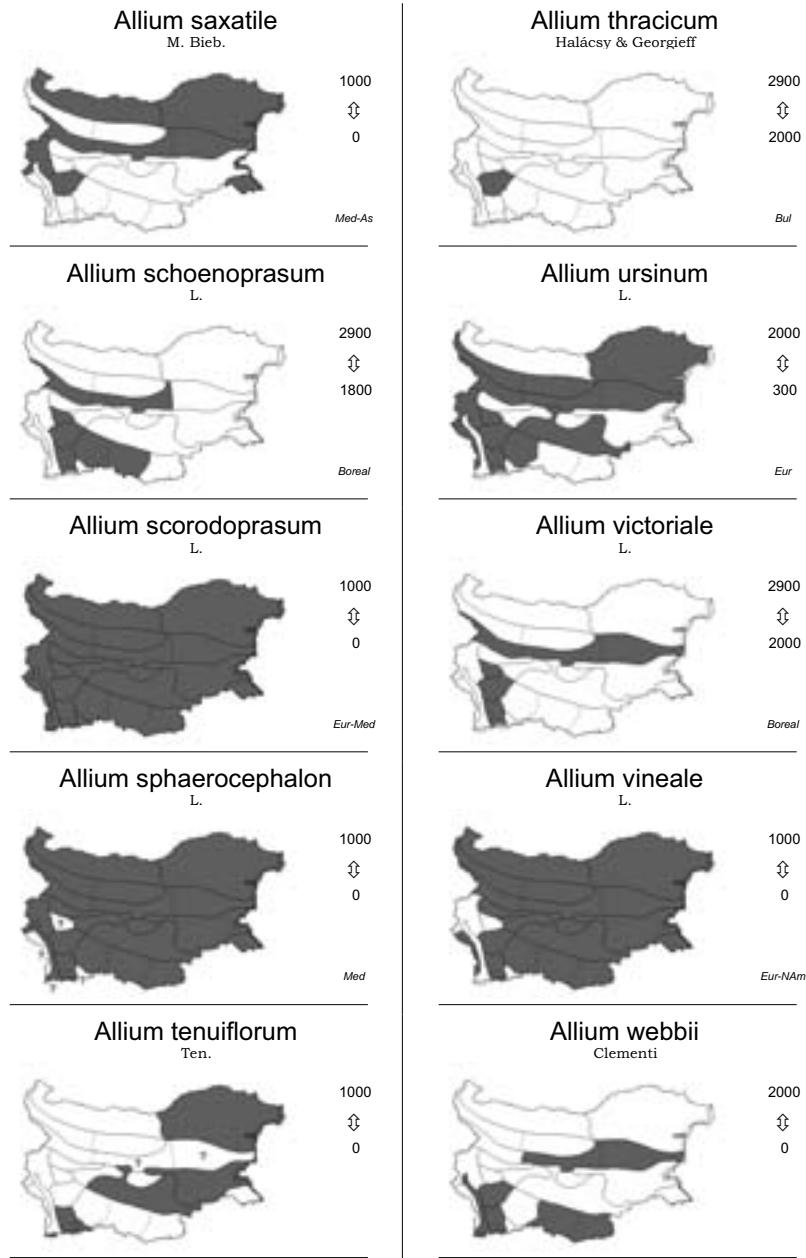


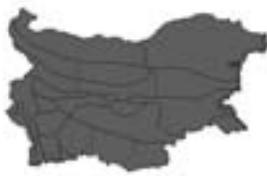
1000

♂

0

Eur-OT



Alnus glutinosa
(L.) Gaertn.

1000

♂

0

Med-CAs

Alnus incana
(L.) Moench

1400

♂

600

subMed

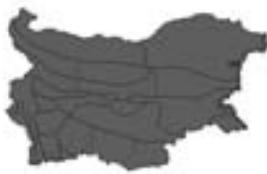
Alnus viridis
(Chiax) DC.

2100

♂

900

Alp-Carp-Bal

Alopecurus aequalis
Sobol.

1600

♂

0

Eur-As

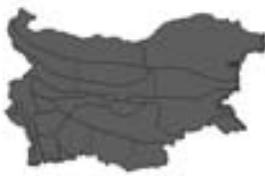
Alopecurus arundinaceus
Poir.

600

♂

0

subBoreal

Alopecurus geniculatus
L.

1600

♂

0

Eur-As

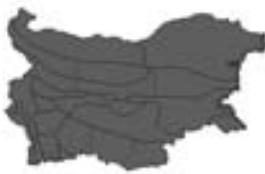
Alopecurus gerardii
Vill.

2900

♂

1800

Alp-Ap-Bal

Alopecurus myosuroides
Huds.

1000

♂

0

Eur-As

Alopecurus pratensis
L.

1600

♂

0

Eur-As

Alopecurus rendlei
Eig

1500

♂

0

Med

Alopecurus riloensis
(Hack.) Pawl.



2900

♂

1800

Bul

Alopecurus thracicus
Penev & Kožuharov



200

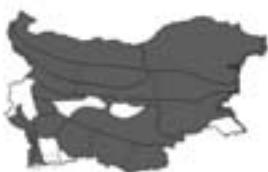
♂

0

!

Bul

Althaea canabina
L.



1000

♂

0

Med-As

Althaea hirsuta
L.



1000

♂

0

Med-As

Althaea officinalis
L.



1000

♂

0

Boreal

Alyssoides utriculata
(L.) Moench



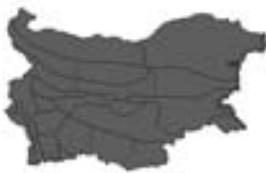
1900

♂

50

subMed

Alyssum alyssoides
(L.) L.



1100

♂

0

Eur-Med

Alyssum bertolonii
Desv.



900

♂

0

Med

Alyssum borzaeanum
Nyár.



400

♂

0

Pont-Med

Alyssum caliacrae
Nyár.

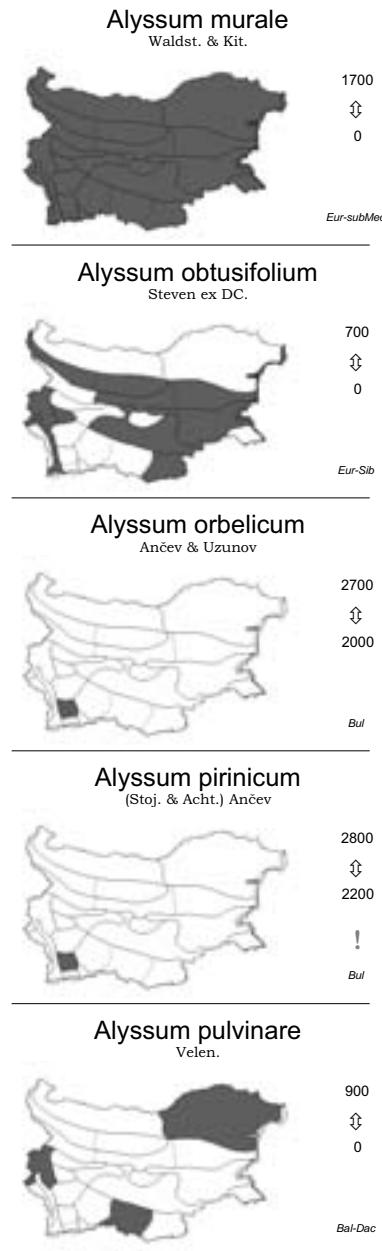
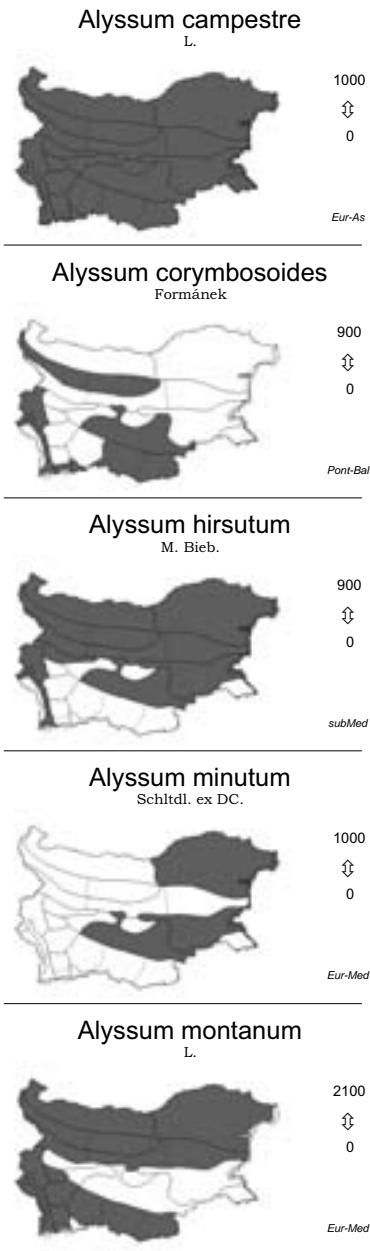


500

♂

0

Pont



Alyssum reiseri
Velen.

1200

♂

500

subMed

Alyssum rostratum
Steven

700

♂

0

subMed

Alyssum stribrnyi
Velen.

1100

♂

500

!

Bal-Anat

Alyssum strigosum
Banks & Sol.

700

♂

0

subMed

Alyssum tortuosum
Willd.

900

♂

100

Pont-Med

Alyssum trichostachyum
Rupr.

2800

♂

1300

subMed

Alyssum turkestanicum
Regel & Schmalh.

1200

♂

0

Eur-Med

Alyssum umbellatum
Desv.

500

♂

0

subMed

Alyssum wierzbickii
Heuff.

1000

♂

0

subMed

Amaranthus albus
L.

1000

♂

0

CAm (Adv)

Amaranthus blitoides
Watson



1000

♂

0

NAm (Adv)

Amaranthus commutatus
A. Kern.



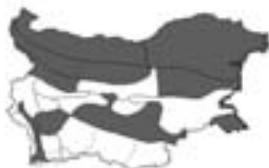
0

♂

0

Adv

Amaranthus crispus
(Lesp. & Thévenau) N. Terracc.



500

♂

0

SAM (Adv)

Amaranthus deflexus
L.



600

♂

0

SAM (Adv)

Amaranthus graecizans
L.



1000

♂

0

Med

Amaranthus hybridus
L.



800

♂

0

SAM (Adv)

Amaranthus hypochondriacus
L.



300

♂

0

NAm (Adv)

Amaranthus lividus
L.



1000

♂

0

CAM (Adv)

Amaranthus retroflexus
L.



1000

♂

0

Kos

Amaranthus scleropoides
Uline & Bray



0

♂

0

Adv

Amaranthus spinosus

L.



100

♂

0

NAm (Adv)

Ambrosia artemisiifolia

L.



300

♂

0

Adv

Amelanchier ovalis

Medicus



1900

♂

0

Pont-Med

Ammannia auriculata

Willd.



200

♂

0

Ammannia verticillata

(Ard.) Lam.



50

♂

0

subMed

Ammophila arenaria

(L.) Link



0

♂

0

Eur-Med

Amorpha fruticosa

L.



500

♂

0

Adv

Amygdalus delipavlovii

S. Seraf.



300

♂

100

!

Bul (Hybr)

Amygdalus nana

L.



1600

♂

0

Eur-As

Anacamptis pyramidalis

(L.) Rich.

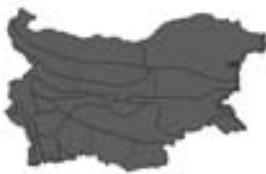


1000

♂

0

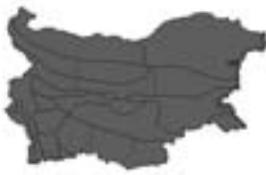
subMed

Anagallis arvensis
L.800
♂
0

Kos

Anagallis minima
(L.) Krause1000
♂
0

Eur

Anchusa azurea
Mill.1000
♂
0

subMed

Anchusa barrelieri
(All.) Vitman1000
♂
0

subMed

Anchusa davidovii
Stoj.2100
♂
1500

Bul

Anchusa hybrida
Ten.1000
♂
0

Eur

Anchusa leptophylla
Roem. & Schult.600
♂
0

subMed

Anchusa macedonica
Degen & Dörl.200
♂
0

Bal

Anchusa ochroleuca
M. Bieb.1000
♂
0

subMed

Anchusa officinalis
L.1000
♂
0

Pont-Med

Anchusa procera
Besser600
‡
0

Pont-Bal

Anchusa stylosa
M. Bieb.600
‡
0

subMed

Anchusa thessala
Boiss. & Spruner300
‡
0

Pont-Med

Anchusa velenovskyi
(Guşul.) Stoj.200
‡
0
!

Bal

Andrachne telephiooides
L.500
‡
0

Pont-Med

Androsace elongata
L.1000
‡
0

Eur-Sib

Androsace hedraeantha
Griseb.2900
‡
2000

Bal

Androsace maxima
L.1000
‡
0

Eur-As

Androsace obtusifolia
All.2200
‡
2200

!

Alp-Carp

Androsace villosa
L.2900
‡
1700

Arct-Alp

Andrzeiowskia cardamine
Rchb.



300
♂
0

Med

Anemone apennina
L.



700
♂
100

subMed

Anemone narcissiflora
L.



2750
♂
1800

Boreal

Anemone nemorosa
L.



1800
♂
500

subBoreal

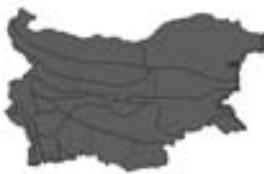
Anemone pavonina
Lam.



400
♂
0

Med

Anemone ranunculoides
L.



1500
♂
0

Eur-subMed

Anemone sylvestris
L.



1500
♂
0

!

Eur-As

Anethum graveolens
L.



800
♂
0

Med-As

Angelica archangelica
L.



2000
♂
0

!

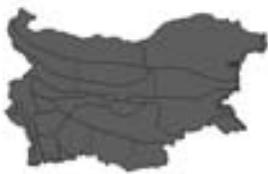
Eur-As

Angelica pancicii
Vandas



2000
♂
700

Bal

Angelica sylvestris
L.1000
♂
0

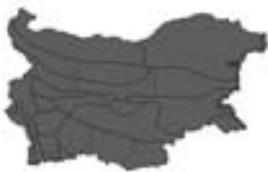
Eur-Sib

Antennaria dioica
(L.) Gaertn.2900
♂
1700

Arct-Alp

Anthemis altissima
L.200
♂
0

subMed

Anthemis argyrophylla
(Halácsy & Georgiev) Velen.1000
♂
0!
Bul*Anthemis arvensis*
L.2000
♂
0

Eur-Med

Anthemis auriculata
Boiss.800
♂
0

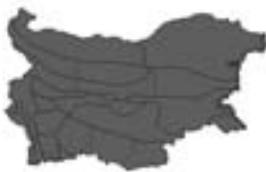
Bal-Anat

Anthemis austriaca
Jacq.2000
♂
0

Eur-Med

Anthemis carpatica
Willd.2500
♂
0

Carp-Bal

Anthemis cotula
L.1000
♂
0

Eur-Sib

Anthemis cretica
L.2500
♂
0

Med

Anthemis gaudium-solis
Velen.

1000
♂
0
!
Bul

Anthemis jordanovii
Stoj. & Acht.

500
♂
500
!
Bul

Anthemis macedonica
Boiss.

1000
♂
0
!
Bul

Anthemis macrantha
Heuff.

800
♂
0
!
Carp-Bal

Anthemis orbelica
Pančić

2000
♂
0
!
Bul

Anthemis parnassica
(Boiss. & Heldr.) Fernan.

400
♂
0

Anthemis regis-borisii
Stoj. & Acht.

200
♂
0
!
Bul

Anthemis rumelica
(Velen.) Stoj. & Acht.

1000
♂
0
!
Bul

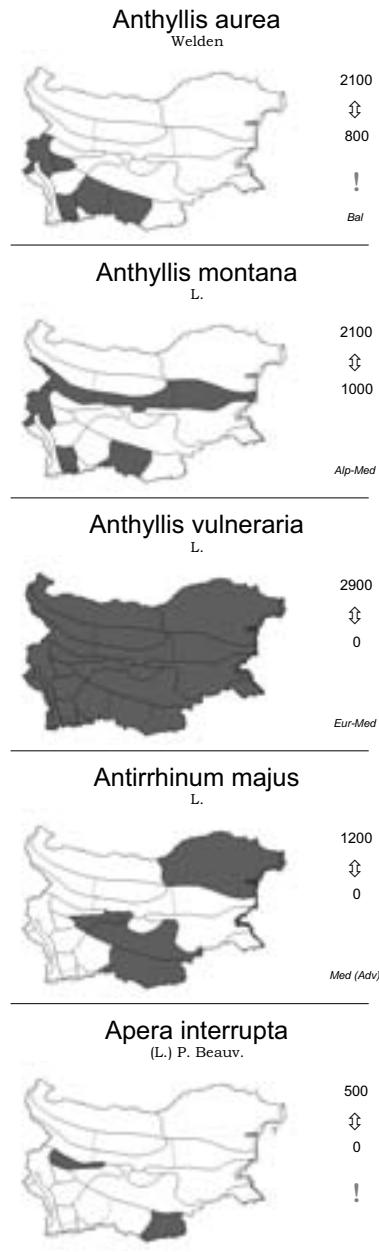
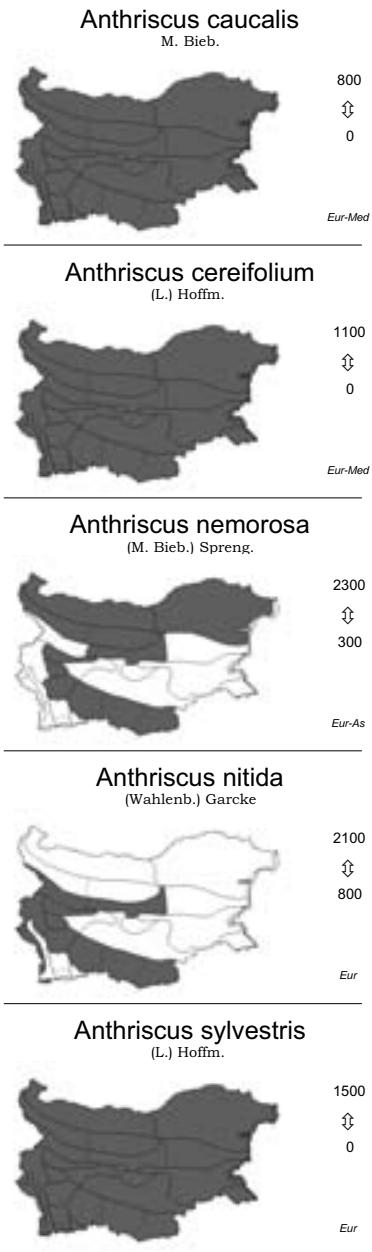
Anthemis ruthenica
M. Bieb.

2000
♂
0
!
subMed

Anthemis sancti-johannis
Turrill

2300
♂
1600
!
Bul

Anthemis strybrnyi
Velen.1000
♂
0
!
*Bul**Anthemis tenuiloba*
(DC.) R. Fern.2000
♂
0
*Bul**Anthemis thracica*
Velen.1000
♂
0
*Bul**Anthemis tinctoria*
L.2000
♂
0
*Eur-Sib**Anthemis triumfetii*
(L.) DC.1000
♂
0
*Eur**Anthemis virescens*
Velen.1000
♂
0
!
*Bul**Anthericum liliago*
L.2900
♂
1000
*subMed**Anthericum ramosum*
L.1000
♂
0
*Eur**Anthoxanthum aristatum*
Boiss.800
♂
0
*Eur-As**Anthoxanthum odoratum*
L.2300
♂
0
Eur-As



Apera spica-venti
(L.) P. Beauv.

1200

◻
0

subBoreal

Aphanes arvensis
L.

1000

◻
0

Eur

Aphanes microcarpa
(Boiss. & Reut.) Rothm.

1200

◻
500

Eur-NAm

Apium graveolens
L.

500

◻
0

Eur-As

Apium nodiflorum
(L.) Lag.

100

◻
0

Eur-As

Apium repens
(Jacq.) Lag.

◻

!

Aquilegia aurea
Janka

2300

◻
1800

Bal

Aquilegia nigricans
Baumg.

2000

◻
1300

Bal

Arabidopsis thaliana
(L.) Heynh.

1500

◻
0

subBoreal

Arabis alpina
L.

2900

◻
1000

Arct-Alp

Arabis auriculata
Lam.



1400

♂

0

Eur-As

Arabis ciliata
Clairv.



2000

♂

1000

Eur

Arabis collina
Ten.



1800

♂

1300

Med

Arabis ferdinandi-coburgii
Kellerer & Sünd.



2800

♂

2100

!

Bul

Arabis glabra
(L.) Bernh.



1600

♂

0

Boreal

Arabis hirsuta
(L.) Scop.



1200

♂

0

Boreal

Arabis hornungiana
Schur



1000

♂

0

subMed

Arabis nova
Vill.



1100

♂

0

subMed

Arabis procurrens
Waldst. & Kit.



1500

♂

500

Eur

Arabis sagittata
(Bertol.) DC.



1200

♂

0

Eur-Med

Arabis sudetica
Tausch.

2200

↓

1700

subMed

Arabis turrita
L.

1600

↓

0

subMed

Arbutus andrachne
L.

350

↓

350

!

Med

Arbutus unedo
L.

350

↓

350

!

subMed-As

Arceutobium oxycedri
(DC.) M. Bieb.

1100

↓

300

subMed-As

Arctium lappa
L.

1500

↓

0

Eur-Med

Arctium minus
Bernh.

1000

↓

0

Eur-As

Arctium nemorosum
Lej.

2000

↓

0

Eur

Arctium tomentosum
Mill.

2000

↓

0

Eur-Med

Arctostaphylos uva-ursi
(L.) Spreng.

2500

↓

1000

Boreal

Arenaria agrimonoides
(L.) DC.



1600

♂

0

subMed

Arenaria biflora
L.



2900

♂

1500

Alp-Carp-Bal

Arenaria ciliata
L.



2600

♂

2400

!

Alp

Arenaria cretica
Spreng.



2100

♂

1900

!

Med

Arenaria filicaulis
Fenzl



1000

♂

0

Bal-Anat

Arenaria leptoclados
(Rchb.) Guss.



1500

♂

0

Eur-As

Arenaria pиринica
Stoj.



2400

♂

2300

!

Bul

Arenaria procera
Spreng.



1000

♂

0

!

Eur

Arenaria rhodopaea
Delip.



1300

♂

1200

!

Bul

Arenaria rigida
M. Bieb.



200

♂

0

!

subMed

Arenaria rotundifolia
M. Bieb.

2900

♂

1000

Bal-Anat

Arenaria serpyllifolia
L.

1000

♂

0

Eur-As

Argusia sibirica
(L.) Dandy

0

♂

0

Eur-As

Aristolochia clematitis
L.

700

♂

0

Eur-Med

Aristolochia macedonica
Bornm.

1000

♂

0

Bal

Aristolochia pallida
Willd.

1000

♂

0

subMed-As

Aristolochia rotunda
L.

300

♂

0

!

Med

Armeria alpina
Willd.

2800

♂

1700

Alp-Carp-Bal

Armeria rumelica
Boiss.

2000

♂

400

Bal

Armoracia macrocarpa
(Waldst. & Kit.) Kit. ex Baumg.

200

♂

0

Eur

Armoracia rusticana
(Lam.) P. Gaertn.



700
♂
0

Adv

Arnica montana
L.



0
♂
0

Eur

Arrhenatherum elatius
(L.) P. Beauv. ex J. & C. Presl



1600
♂
0

Eur-As

Arrhenatherum palaestinum
Boiss.



500
♂
0

Med

Artemisia absinthium
L.



2000
♂
0

Pont-Med

Artemisia alba
L.



1500
♂
0

subMed

Artemisia annua
L.



1000
♂
0

Eur-Med

Artemisia austriaca
Jacq.



1000
♂
0

Eur-Sib

Artemisia campestris
L.



1000
♂
0

Eur-Sib

Artemisia chamaemelifolia
Vill.



1500
♂
0

Alp-Cauc

Artemisia eriantha
Ten.

2500

□

1800

Carp-Bal

Artemisia lerchiana
Weber

300

□

0

subMed

Artemisia pedemontana
Balt.

100

□

0

Pont-Med

Artemisia pontica
L.

1500

□

0

Pont

Artemisia santonicum
L.

500

□

0

Eur-Med

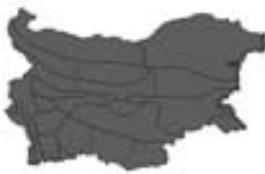
Artemisia scoparia
Waldst. & Kit.

1000

□

0

Eur-As

Artemisia vulgaris
L.

1000

□

0

subBoreal

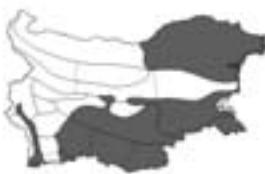
Arum alpinum
Schott & Kotschy

1000

□

500

Eur

Arum elongatum
Steven

1000

□

0

Pont-OT

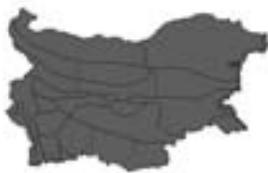
Arum italicum
Mill.

1000

□

0

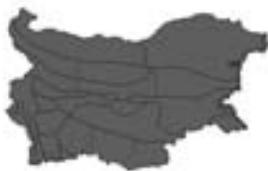
Med

Arum maculatum
L.1800
♂
0

Eur-subMed

Arum orientale
M. Bieb.1000
♂
0

Med

Asarum europaeum
L.1200
♂
0

Eur-Sib

Asclepias syriaca
L.600
♂
0

Adv

Asparagus acutifolius
L.1000
♂
0

Med

Asparagus aphyllus
L.100
♂
0

Med

Asparagus brachyphyllus
Turcz.1000
♂
0

Pont-As

Asparagus maritimus
(L.) Mill.500
♂
0

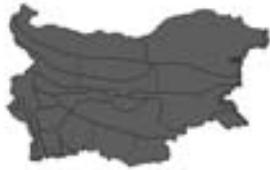
SSib

Asparagus officinalis
L.1000
♂
0

Eur

Asparagus tenuifolius
Lam.2500
♂
0

Pont-Med

Asparagus verticillatus
L.1000
◻
0*Asperula cretacea*
Willd.350
◻
200*Asperugo procumbens*
L.1000
◻
0

Eur-As

Asperula cynanchica
L.2500
◻
0

Eur-Med

Asperula aristata
L. f.2800
◻
200

subMed

Asperula involucrata
Wahlenb.100
◻
0

Bal-Anat

Asperula arvensis
L.1000
◻
0

Eur-Med

Asperula purpurea
(L.) Ehrend.1500
◻
300

subMed

Asperula capitata
Kit. ex Schult.2000
◻
1500

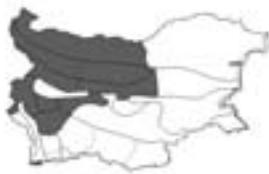
Carp-Bal

Asperula rumelica
Boiss.800
◻
0

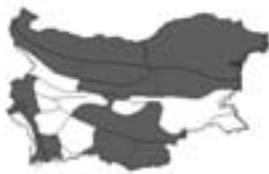
subMed

Asperula setulosa
Boiss.1000
♂
0

Pont

Asperula taurina
L.1000
♂
300

Pont-Med

Asperula tenella
Heuff. ex Degen1200
♂
300

subMed

Asperula tinctoria
L.1000
♂
600

Eur-Sib

Asphodeline liburnica
(Scop.) Rchb.1000
♂
0

Pont-Med

Asphodeline lutea
(L.) Rchb.1200
♂
0

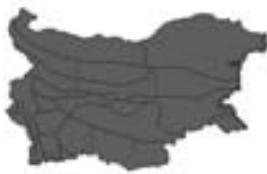
Pont-Med

Asphodeline taurica
(Pall. ex M. Bieb.) Kunth2000
♂
1000

Pont-Med

Asphodelus albus
Mill.1600
♂
800

subMed

Asplenium adiantum-nigrum
L.2200
♂
0

subBoreal

Asplenium cuneifolium
Viv.2900
♂
1000

!

Eur

Asplenium fissum
Kit. ex Willd.



2800

□

1800

Ap-Bal

Asplenium lepidum
C. Presl



700

□

0

!

Ap-Bal

Asplenium onopteris
L.

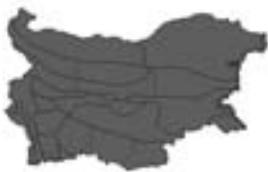


1900

□

200

Asplenium ruta-muraria
L.



1500

□

0

Boreal

Asplenium septentrionale
(L.) Hoffm.



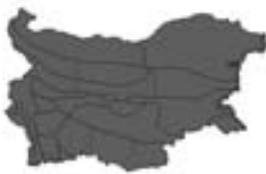
2000

□

100

Boreal

Asplenium trichomanes
L.



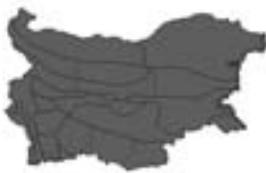
1700

□

0

Kos

Asplenium viride
Huds.



2300

□

800

Boreal

Aster alpinus
L.



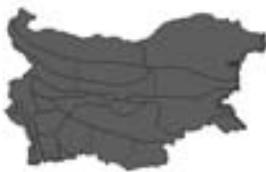
2900

□

1300

Arct-Alp

Aster amellus
L.



1000

□

0

Eur-Med

Aster linosyris
(L.) Bernh.



1000

□

0

Eur-Med

Aster oleifolius
(Lam.) Wagenitz1000
♂
0

Pont-Sib

Aster salignus
Willd.500
♂
0

Adv

Aster squamatus
(Spreng.) Hieron.200
♂
0

Adv

Aster tripolium
L.500
♂
0

Eur-Sib

Asteriscus aquaticus
(L.) Less.1000
♂
0

Med

Asterolinon linum-stellatum
(L.) Duby500
♂
0

Med

Astracantha aitosensis
(Ivan.) Podl.400
♂
100

!

Bul

Astracantha thracica
(Griseb.) Podl.800
♂
0

!

Bal

Astragalus alopecurus
Pall.2000
♂
1000

!

Alp

Astragalus angustifolius
Lam.2000
♂
0

subMed

Astragalus asper
Jacq.

200

♂

0

Eur

Astragalus australis
(L.) Lam.

2700

♂

2000

Eur-As

Astragalus austriacus
L.

100

♂

0

subMed

Astragalus cicer
L.

1800

♂

0

Eur-Sib

Astragalus contortuplicatus
L.

100

♂

0

Eur-As

Astragalus corniculatus
M. Bieb.

500

♂

200

!

Pont

Astragalus cornutus
Pall.

50

♂

0

!

Pont-As

Astragalus dasyanthus
Pall.

500

♂

0

!

subMed

Astragalus depressus
L.

1800

♂

0

subMed

Astragalus excapus
L.

0

♂

0

Eur

Astragalus gladiatus
Boiss.100
♂
0

Bal

Astragalus glaucus
M. Bieb.200
♂
0

Pont

Astragalus glycyphylloides
DC.1800
♂
0

subMed

Astragalus glycyphyllos
L.1800
♂
0

sPont

Astragalus hamosus
L.500
♂
0

Eur-As

Astragalus monspessulanus
L.1000
♂
0

Pont-Med

Astragalus onobrychis
L.1500
♂
0

Eur-As

Astragalus physocalyx
Fisch.100
♂
0

Bal-Anat

Astragalus ponticus
Pall.200
♂
0

Pont-Med

Astragalus pubiflorus
DC.200
♂
0

subMed

Astragalus sesameus
L.

400

♂

0

Med

Astragalus sprunieri
Boiss.

800

♂

0

Bal

Astragalus suberosus
Banks & Sol.

500

♂

0

Bal

Astragalus varius
S. G. Gmel.

100

♂

0

Pont-As

Astragalus vesicarius
L.

1000

♂

0

Eur-Med

Astragalus wilmottianus
Stoj.

1000

♂

0

!

Bal

Astrantia major
L.

1900

♂

800

subMed

Astrodaucus littoralis
(M. Bieb.) Drude

0

♂

0

!

subMed

Asyneuma anthericoides
(Janka) Bornm.

1300

♂

0

Bal

Asyneuma canescens
(Waldst. & Kit.) Griseb. et Schenk

1900

♂

0

Pont-Bal

Asyneuma limonifolium
(L.) Janch.



2100
□
900

Ap-Bal

Asyneuma pichleri
(Vis.) D. Lakušić & F. Conti



2300
□
1200

Med

Athyrium distentifolium
Tausch ex Opiz



2900
□
2200

Boreal

Athyrium filix-femina
(L.) Roth



2300
□
0

Kos

Atriplex hastata
L.



800
□
0

Boreal

Atriplex heterosperma
Bunge



0
□
0

Adv

Atriplex hortensis
L.



500
□
0

Adv

Atriplex micrantha
Ledeb.



0
□
0

Pont

Atriplex nitens
Schkuhr



1000
□
0

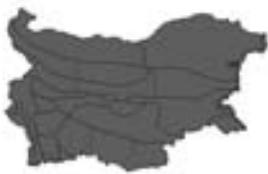
Eur-As

Atriplex oblongifolia
Waldst. & Kit.



500
□
0

Eur-As

Atriplex patula
L.

600

♂

0

Boreal

Atriplex rosea
L.

800

♂

0

Eur-As

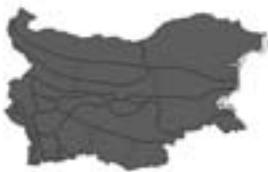
Atriplex tatarica
L.

800

♂

0

Eur-As

Atropa bella-donna
L.

1800

♂

450

Eur

Aubrieta columnae
Guss.

1800

♂

1100

subMed

Aubrieta gracilis
Spruner ex Boiss.

2400

♂

1800

!

Bal

Aurinia saxatilis
(L.) Desv.

1700

♂

0

Eur-Med

Aurinia uechtritziana
(Bornm.) Cullen & Dudley

100

♂

0

!

Pont

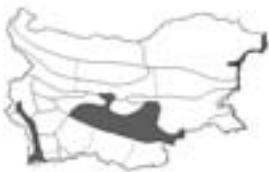
Avena barbata
Pott ex Link

500

♂

0

Med-SAm

Avena clauda
Durieu

500

♂

0

Med-CAs

Avena eriantha

Durieu



50



0

Avena fatua

L.



800



0

1000



0

Bal-Dac

Avena ludoviciana

Durieu



1000



0

2000



1500

Bal-Anat

Avena sterilis

L.



300



0

Eur-As (Adv)

1500



0

SSib

Avena wiestii

Steud.



800



0

2400



1700

Alp-Carp-Bal

Avenula compressa

(Heuffel) Sauer & Chmelitschek



1000



0



2000



1500

Bal-Anat

Avenula pubescens

(Huds.) Dumort.



1500



0

SSib

Avenula versicolor

(Vill.) Lainz



2400



1700

Alp-Carp-Bal

Azolla caroliniana

Willd.



100



0

Boreal

Azolla filiculoides
Lam.



100
◻
0

Ballota nigra
L.



1000
◻
0

Barbarea balcana
Pančić



2200
◻
1600

Bal

Barbarea bracteosa
Guss.



2100
◻
1500

Ap-Bal

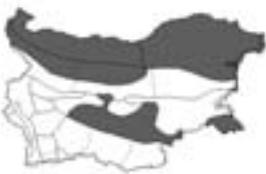
Barbarea longirostris
Velen.



1500
◻
0

Bal

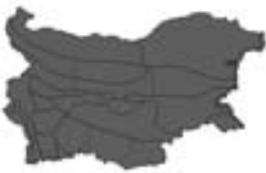
Barbarea stricta
Andrz.



500
◻
0

Eur-As

Barbarea vulgaris
R. Br.



1200
◻
0

Eur-As

Bartsia alpina
L.



2600
◻
2100

Boreal

Bassia hirsuta
(L.) Asch.



0
◻
0

Eur-As

Beckmannia eruciformis
(L.) Host



1000
◻
0

subBoreal

Bellardia trixago
(L.) All.



300
♂
0

Med

Bellardiochloa violacea
(Bellardi) Chiov.



2600
♂
400

subMed-Anat

Bellevalia sarmatica
(Pall. ex Georgi) Woronov



100
♂
0
!

Pont

Bellis annua
L.



2000
♂
0

Med

Bellis perennis
L.



1200
♂
0

Eur-As

Bellis sylvestris
Cyr.



500
♂
0

Med

Berberis vulgaris
L.



1000
♂
0

Eur-Med

Berteroia incana
(L.) DC.



1500
♂
0

sPont

Berteroia mutabilis
(Vent.) DC.



800
♂
0

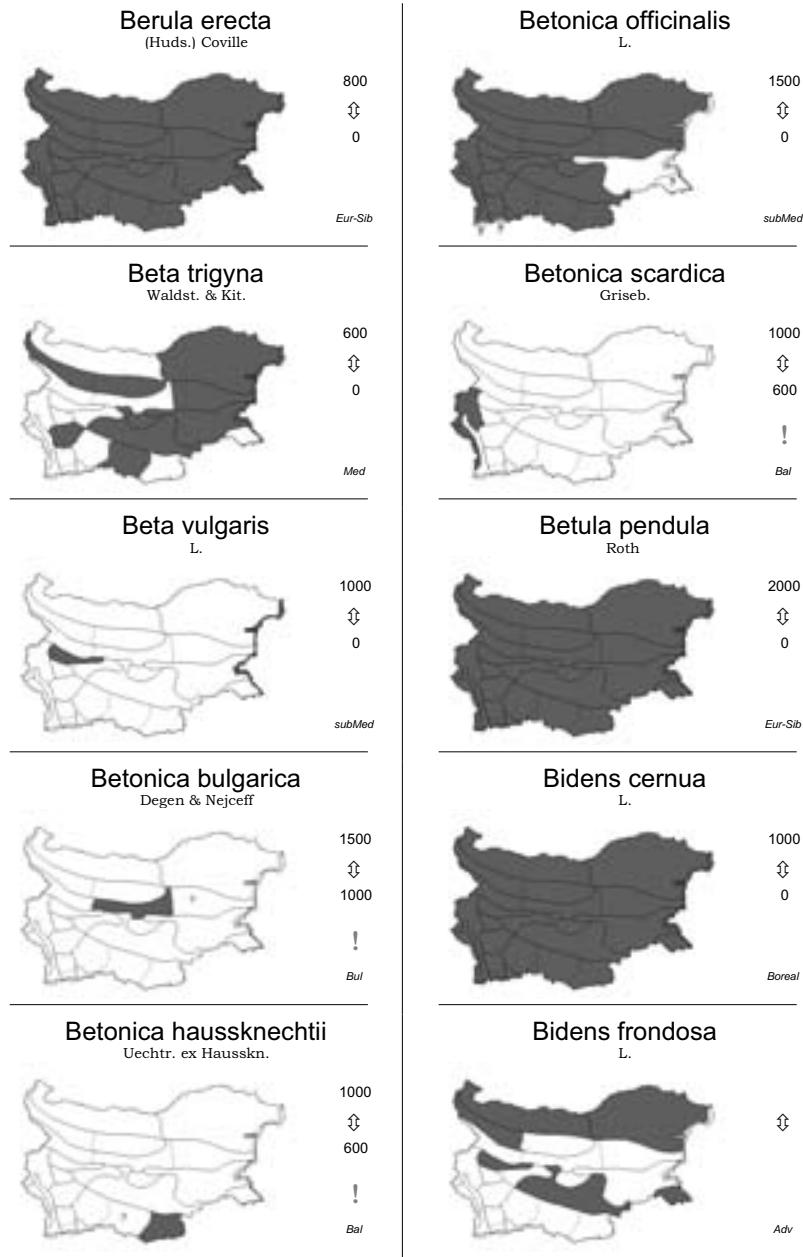
Med

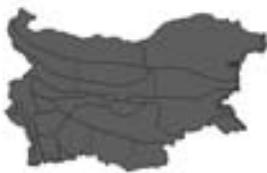
Berteroia obliqua
(Sm.) DC.



500
♂
0

Med



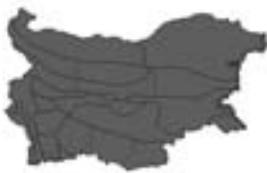
Bidens tripartita
L.

1000

♂

0

Boreal

Bifora radians
M. Bieb.

1300

♂

800

Eur-Med

Bifora testiculata
(L.) Roth

500

♂

0

Med-CAs

Bilderdykia convolvulus
(L.) Dumort.

1900

♂

0

Eur-As

Bilderdykia dumetorum
(L.) Dumort.

1100

♂

0

Eur-Med

Bisserula pelecinus
L.

200

♂

0

Med

Bistorta major
Gray

2200

♂

700

Eur-As

Bistorta vivipara
(L.) Gray

2750

♂

1600

Boreal

Bituminaria bituminosa
(L.) Stirz.

1000

♂

0

Pont-Med

Blackstonia perfoliata
(L.) Huds.

700

♂

0

!

subMed

Blechnum spicant
(L.) Roth



1900
♂
200

Boreal

Blysmus compressus
(L.) Panz. ex Link



2300
♂
1500

Eur-As

Bolboschoenus laticarpus
Marhold, Hroudová, Doucháček & Zákravský



700
♂
0

Eur

Bolboschoenus maritimus
(L.) Pall.



1000
♂
0

Kos

Bombycilaena erecta
(L.) Smoljan.



1000
♂
0

Eur-Med

Botrychium lunaria
(L.) Sw.



2500
♂
1000

Boreal

Botrychium matricariifolium
A. Braun ex Koch



1500
♂
1500

!

Boreal

Bracharia eruciformis
(Sm.) Griseb.



300
♂
0

Med-CAs

Brachypodium glaucovirens
Murb.



1200
♂
0

Eur-OT

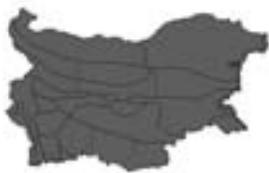
Brachypodium pinnatum
(L.) P. Beauv.



2200
♂
0

SSib

Brachypodium sylvaticum
(Huds.) P. Beauv.



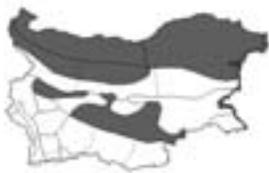
1600

♂

0

Eur-As

Brassica elongata
Ehrh.



500

♂

0

Eur-As

Brassica jordanoffii
O. E. Schultz



2800

♂

2100

!

Bul

Brassica juncea
(L.) Czern. & Coss.



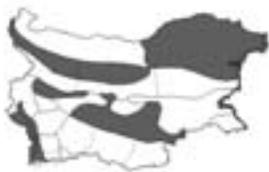
300

♂

0

As

Brassica napus
L.



400

♂

0

Adv

Brassica nigra
(L.) Koch



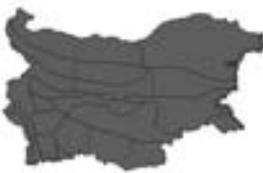
500

♂

0

Kos

Brassica rapa
L.



1000

♂

0

Med-Atl

Briza humilis
M. Bieb.



500

♂

0

Pont-Med

Briza maxima
L.



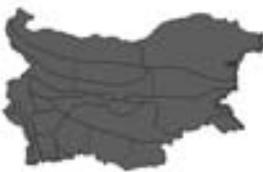
200

♂

0

Med

Briza media
L.

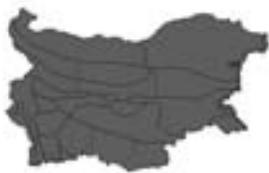


1800

♂

0

Eur

Bromus arvensis
L.1400
♂
0

Eur-As

Bromus barcensis
Simonk.1500
♂
1000

Eur-As

Bromus benekenii
(Lange) Trimen1500
♂
1000

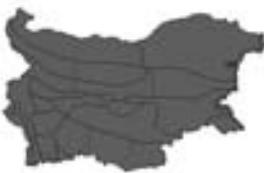
Eur-As

Bromus commutatus
Schrad.600
♂
0

subMed

Bromus erectus
Huds.800
♂
0

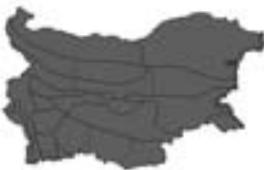
subMed

Bromus inermis
Leyss.1200
♂
0

Eur-As

Bromus intermedius
Guss.1000
♂
0

Med-subMed

Bromus japonicus
Thunb.800
♂
0

Med-CAs

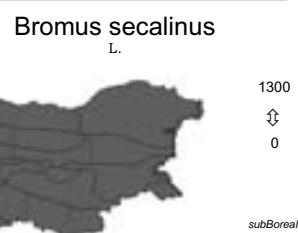
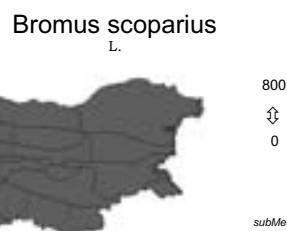
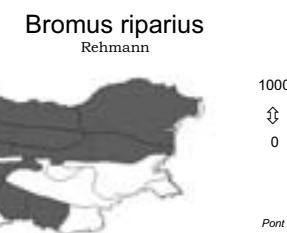
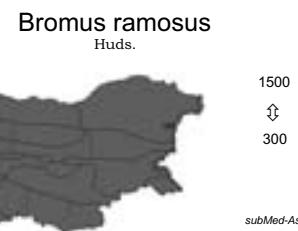
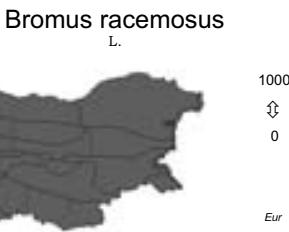
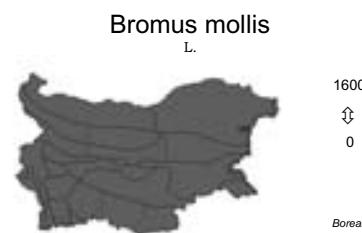
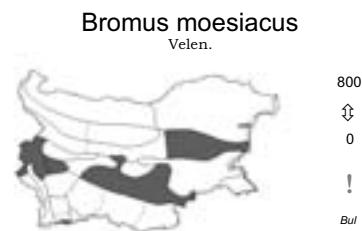
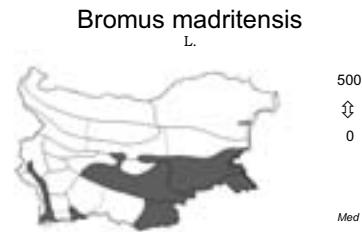
Bromus lacmonicus
Hausskn.2000
♂
1600

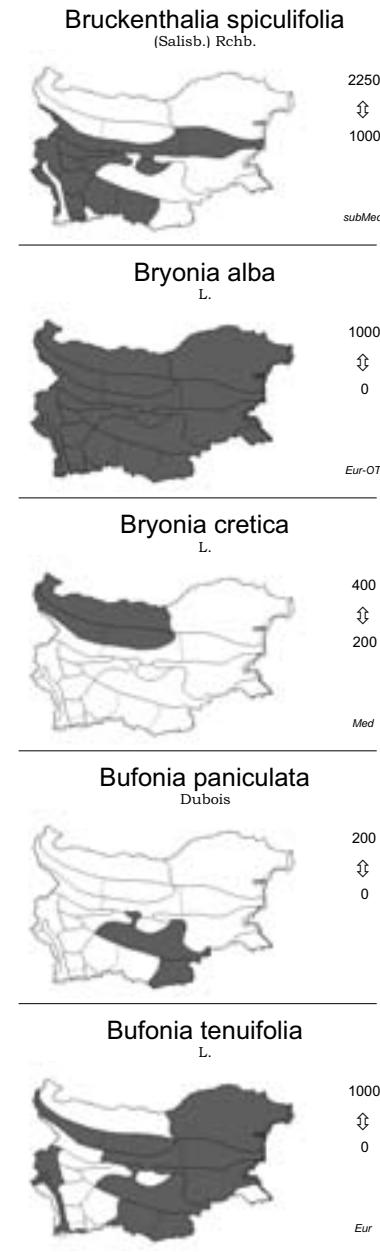
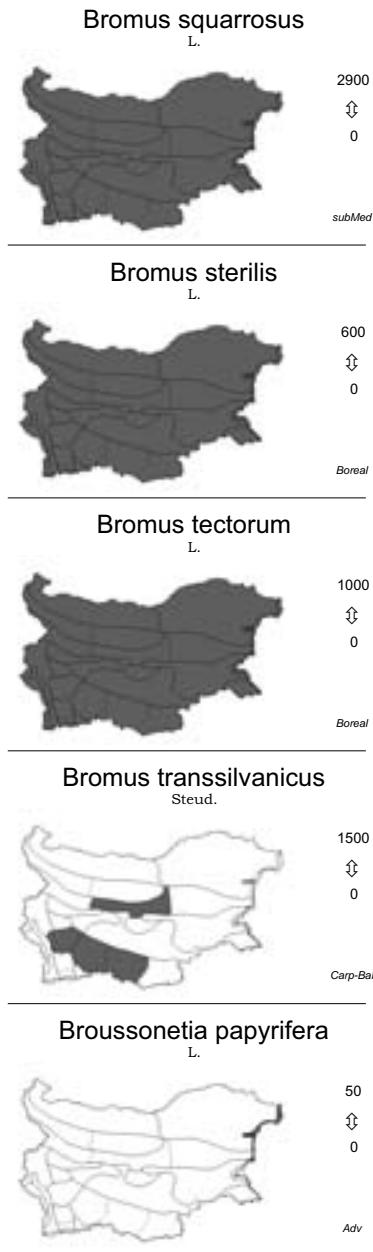
Bal

Bromus lanceolatus
Roth200
♂
0

!

Eur-As





Buglossoides arvensis

(L.) I. M. Johnst.



1500

♂

0

Eur-As

Buglossoides glandulosa

(Velen.) R. Fern.



300

♂

100

!

subMed

Buglossoides incrassata

(Guss.) I. M. Johnst.



500

♂

0

Med

Buglossoides purpurocaerulea

(L.) I. M. Johnst.



1000

♂

0

Eur-As

Buglossoides sibthorpiana

(Griseb.) Czerep.



1000

♂

0

Med

Buglossoides tenuiflora

(L. f.) I. M. Johnst.



200

♂

0

Pont-Med

Bunias erucago

L.



500

♂

0

Med

Bunias orientalis

L.



300

♂

0

Eur-Sib

Bunium ferulaceum

Sm.



500

♂

0

Med

Bupleurum affine

Sadler



800

♂

0

subMed

Bupleurum apiculatum
Friv.



400
♂
0

Bal

Bupleurum asperuloides
Heldr. ex Boiss.



300
♂
0

subMed

Bupleurum baldense
Turra



500
♂
0
!

Eur

Bupleurum commutatum
Boiss. & Balansa



800
♂
0

Pont-Med

Bupleurum falcatum
L.



1700
♂
300

subMed

Bupleurum flavum
Forssk.



800
♂
0

Med

Bupleurum fontanesii
Guss. ex Caruel



400
♂
0

Med

Bupleurum gerardi
All.



600
♂
0

Eur-As

Bupleurum longifolium
L.



1800
♂
1100
!

Eur-As

Bupleurum praecaltum
L.



800
♂
0

subMed

Bupleurum ranunculoides

L.



2000

1700

Eur

Bupleurum rotundifolium

L.



1000

0

Eur-As

Bupleurum sibthorpiatum

Sm.



2700

1300

subMed

Bupleurum tenuissimum

L.



800

0

Eur-Med

Butomus umbellatus

L.



700

0

Eur-As

Cachrys alpina

M. Bieb.



1100

250

!

Pont

Cakile maritima

Scop.



0

0

Eur-Med

Calamagrostis arundinacea

(L.) Roth



2000

300

subBoreal

Calamagrostis canescens

(Weber) Roth



1500

1000

Eur-Sib

Calamagrostis epigeios

(L.) Roth



2000

0

Eur-As

Calamagrostis pseudophragmites
(Haller f.) Koeler



1500

♂

0

Eur-As

Calamagrostis villosa
(Chaix) J. F. Gmel.



2300

♂

1500

Eur

Calamintha grandiflora
(L.) Moench



2000

♂

200

Pont-OT

Calamintha nepeta
(L.) Savi



1000

♂

0

Eur-Med

Calamintha sylvatica
Bromf.



1500

♂

200

Eur-OT

Caldesia parnassifolia
(L.) Pall.



500

♂

0

!

Eur-As

Calendula arvensis
L.



0

♂

0

Med

Calepina irregularis
(Asso) Thell.



1000

♂

0

Med

Callitricha brutia
Petagna



100

♂

0

!

Eur-As

Callitricha cophocarpa
Sendtn.



1700

♂

600

Eur-As

Callitricha palustris
L.

2400

↓

1600

Kos

Callitricha platicarpa
Kütz.

750

↓

0

Eur-Pont

Callitricha stagnalis
Scop.

100

↓

0

Kos

Calluna vulgaris
(L.) Hull

500

↓

200

subBoreal

Caltha alpestris
Schott, Nyman & Kotschy

2500

↓

1800

Eur

Caltha cornuta
Schott, Nyman & Kotschy

200

↓

100

subMed

Caltha laeta
Schott, Nyman & Kotschy

2000

↓

1500

subMed

Caltha minor
Mill.

1700

↓

500

Boreal

Caltha palustris
L.

1600

↓

0

Eur

Caltha polypetala
Hochst. ex Lorent

700

↓

500

Pont-Med

Caltha rostrata
Borbás

2200

↓

1700

Eur

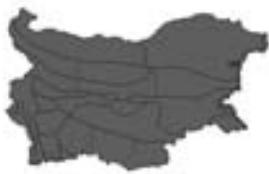
Calystegia sepium
(L.) R. Br.

1000

↓

0

Kos

Calystegia silvatica
(Kit.) Griseb.

1000

↓

0

Med

Calystegia soldanella
(L.) R. Br.

0

↓

0

Kos

Camelina alyssum
(Mill.) Thell.

1300

↓

0

Eur-As

Camelina microcarpa
DC.

1000

↓

0

Pont-CAs

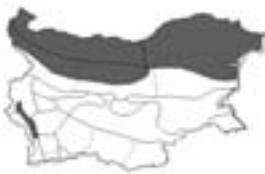
Camelina rumelica
Velen.

800

↓

0

Pont-CAs

Camelina sativa
(L.) Crantz

1000

↓

0

Pont-CAs

Campanula alpina
Jacq.

2900

↓

1700

Alp-Carp

Campanula bononiensis
L.

1500

↓

0

Eur

Campanula cervicaria

L.



2300

♂

700

sPont

Campanula cochlearifolia

Lam.



2900

♂

1900

Alp-Carp

Campanula euxina

(Velen.) Ančev



500

♂

0

Bul

Campanula foliosa

Ten.



♂

Campanula glomerata

L.



2300

♂

900

Eur-OT

Campanula grossekii

Heuff.



1300

♂

0

Bal-Dac

Campanula hemschinica

Koch



♂

Campanula jordanovii

Ančev & Kovanda



1900

♂

700

Bal

Campanula lanata

Friv.



1500

♂

500

Bal

Campanula latifolia

L.



1700

♂

1000

Eur-Sib

Campanula lingulata
Waldst. & Kit.



1300
♂
0

Ap-Bal

Campanula macrostachya
Waldst. & Kit.



700
♂
0

Med

Campanula moesiaca
Velen.



2900
♂
1200

Bal

Campanula orphanidea
Boiss.



2100
♂
1000

Bal

Campanula patula
L.



2500
♂
500

Eur

Campanula persicifolia
L.



2000
♂
0

Eur-Sib

Campanula phrygia
Jaub. & Spach



500
♂
0

Campanula rapunculoides
L.



1900
♂
0

Eur

Campanula rapunculus
L.



1300
♂
0

Eur-Sib

Campanula rotundifolia
L.



2900
♂
1000

Boreal

Campanula scheuchzeri
Vill.2000
♂
1300

Eur

Campanula scutellata
Griseb.1000
♂
200

Bal

Campanula sibirica
L.700
♂
0

subMed

Campanula sparsa
Friv.1700
♂
300

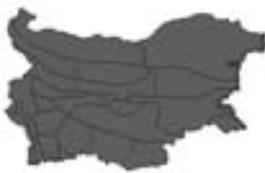
Bal

Campanula spatulata
Sm.2200
♂
1500

95

Campanula thrysoides
L.2300
♂
2000

Alp-Bal

Campanula trachelium
L.1500
♂
0

Boreal

Campanula transsilvanica
Schur ex Andrae2700
♂
1900

!

Carp-Bal

Campanula trojanensis
Kovanda & Ančev2000
♂
1300

Bul

Campanula velebitica
Borbás2500
♂
700

Bal

Campanula versicolor
Andrews



600
0
!
EMed

Camphorosma annua
Pall.



300
0
subMed

Camphorosma monspeliacum
L.



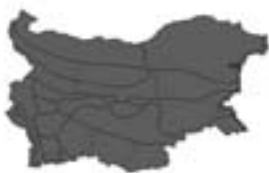
500
0
Eur-As

Cannabis sativa
L.



500
0
Adv

Capsella bursa-pastoris
(L.) Medicus



2000
0
Kos

Capsella rubella
Reut.



700
0
subMed

Caragana frutex
(L.) C. Koch



200
0
Pont-Sib

Cardamine acris
Griseb.



2200
0
subMed

Cardamine amara
L.



2200
0
1000
Eur-As

Cardamine bulbifera
(L.) Crantz



1400
0
subBoreal

Cardamine flexuosa
With.



1500

♂

600

Boreal

Cardamine glauca
Spreng.



2600

♂

1600

subMed

Cardamine graeca
L.



1200

♂

0

Med

Cardamine hirsuta
L.



1000

♂

0

Eur-As

Cardamine impatiens
L.



1500

♂

400

Eur-As

Cardamine matthioli
Moretti



1000

♂

0

Eur

Cardamine parviflora
L.



250

♂

250

!

Eur-As

Cardamine pectinata
Pall. ex DC.



1600

♂

800

subMed

Cardamine penzesii
Ančev & Marhold



50

♂

0

!

Eux

Cardamine quinquefolia
(M. Bieb.) Schmalh.



600

♂

0

subMed

Cardamine resedifolia
L.

2500

↓

1800

Carp-Bal

Cardamine rivularis
Schur

2400

↓

1000

Carp-Bal

Cardaminopsis arenosa
(L.) Hayek

1000

↓

0

Eur

Cardaria draba
(L.) Desv.

1000

↓

0

Eur-Med

Carduus acanthoides
L.

1000

↓

0

Eur

Carduus acicularis
Bertol.

1500

↓

0

Med

Carduus adpressus
C. A. Mey.

2000

↓

1000

!

Bal-Anat

Carduus candicans
Waldst. & Kit.

1000

↓

0

Bal-Dac

Carduus carduelis
(L.) Gren.

2500

↓

1800

Eur

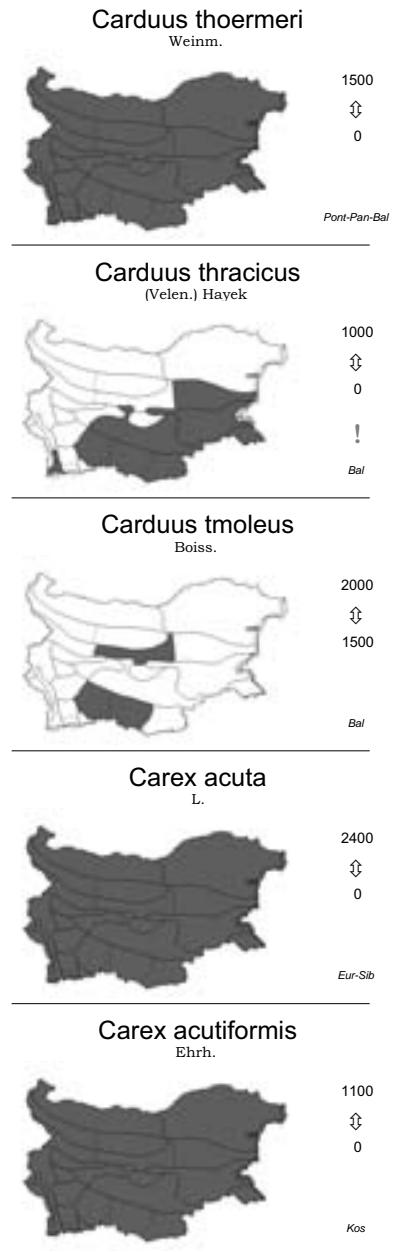
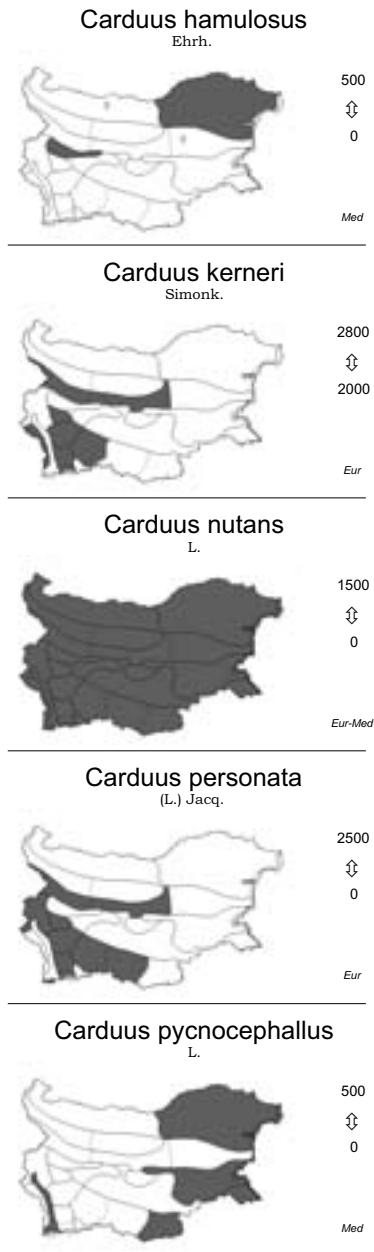
Carduus crispus
L.

2000

↓

0

Eur-Med



Carex atrata
L.2600
↓
2000

Eur

Carex brevicollis
DC. in Lam.1000
↓
200

Eur-Med

Carex bucekii
Wimm.1000
↓
0

Eur

Carex bulgarica
(Domin) Lazare2600
↓
1500

Bul

Carex buxbaumii
Wahlenb.1300
↓
600

Kos

Carex caespitosa
L.800
↓
400

Eur-As

Carex caryophyllea
Latourr.2700
↓
200

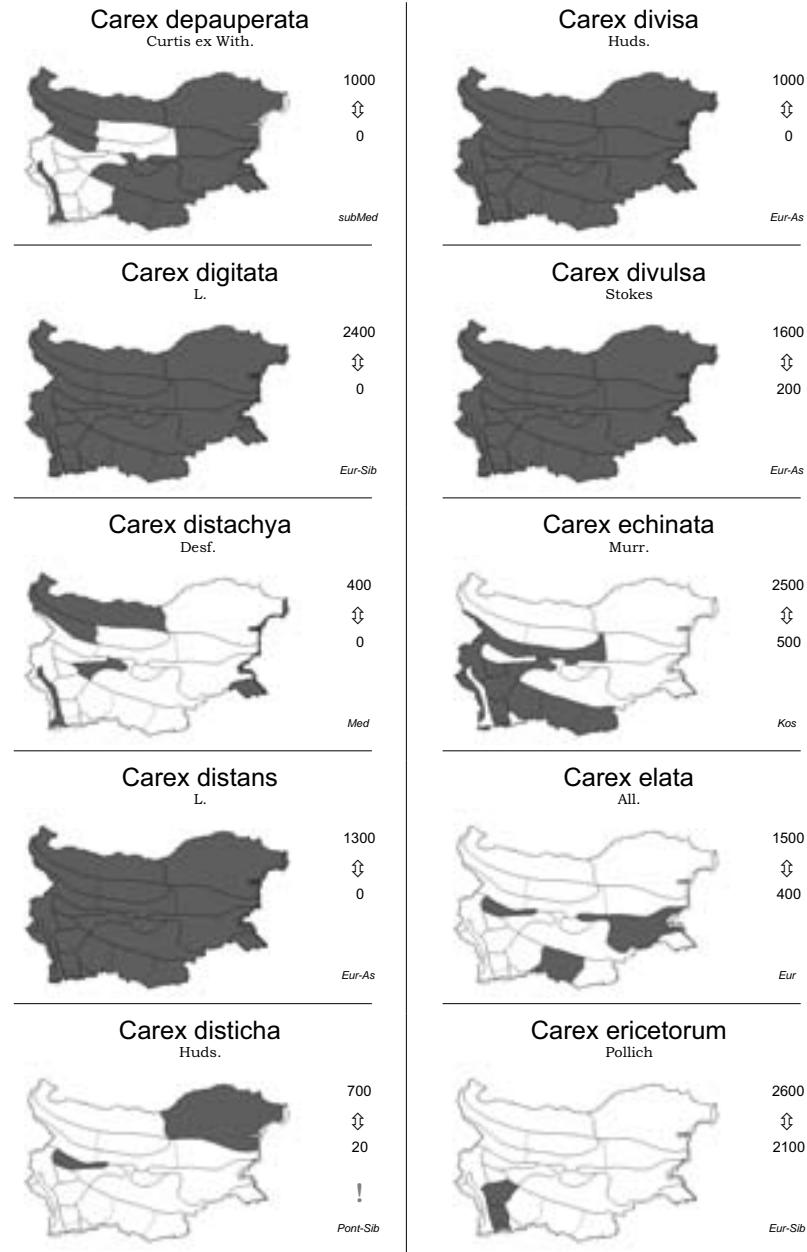
Boreal

Carex curta
Good.2500
↓
1400*Carex curvula*
All.2900
↓
2300

Alp-Med

Carex dacica
Heuff.2700
↓
2300

Carp-Bal-Cauc



Carex extensa
Good.200
♂
0

Eur-Am

Carex ferruginea
Scop.2100
♂
2100
!
Alp-Med*Carex flacca*
Schreb.1000
♂
0
Kos*Carex flava*
L.1600
♂
1000

Boreal

Carex fuliginosa
Schkuhr2700
♂
2000
!
Boreal*Carex hallerana*
Asso1000
♂
200

Eur-As

Carex hartmanii
Cajander

♂

Boreal

Carex heleonastes
Ehrh. ex L. f.2000
♂
1800

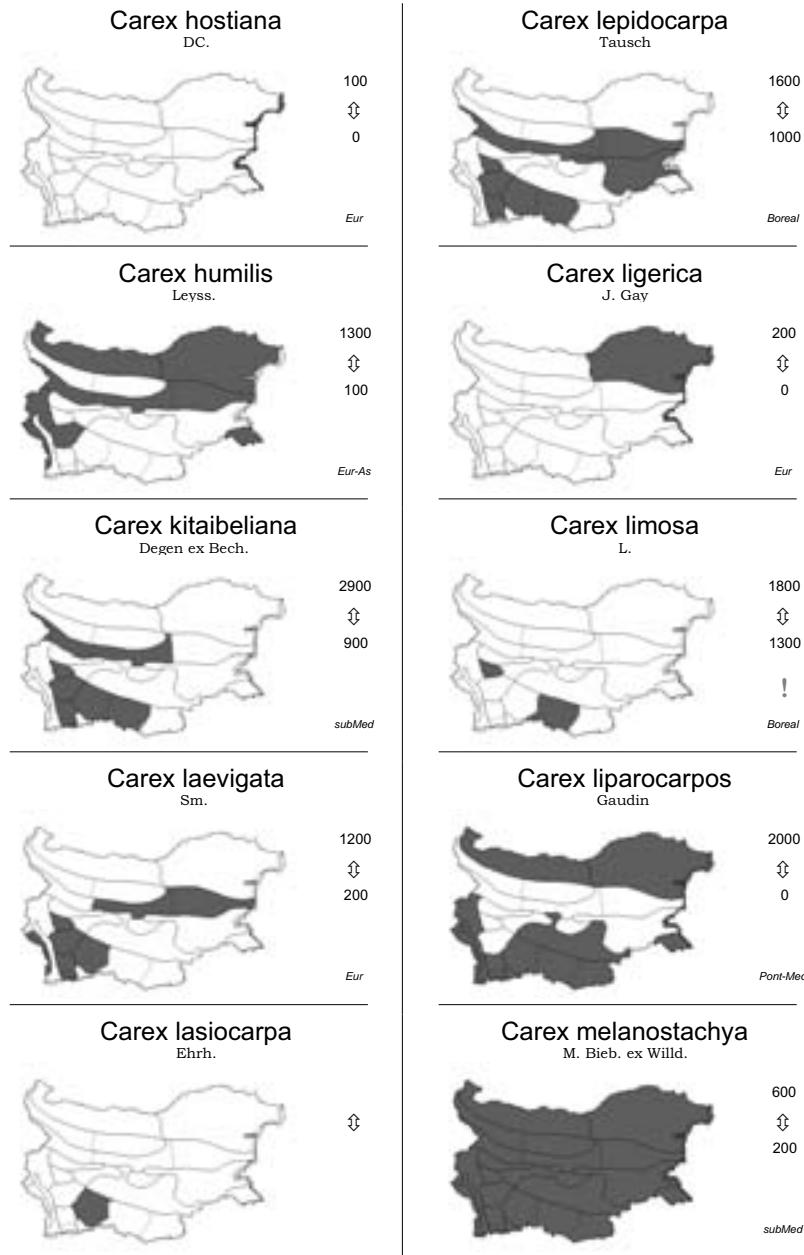
Eur-Sib

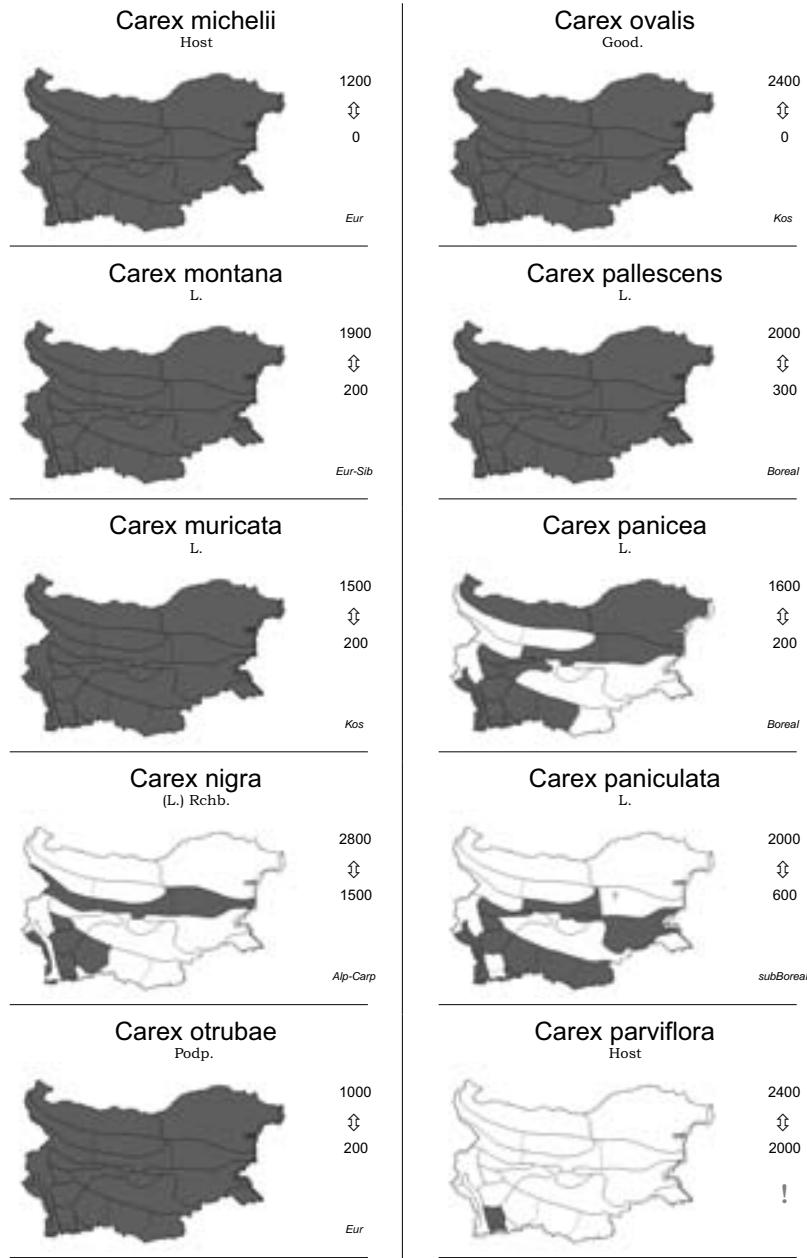
Carex hirta
L.1500
♂
0

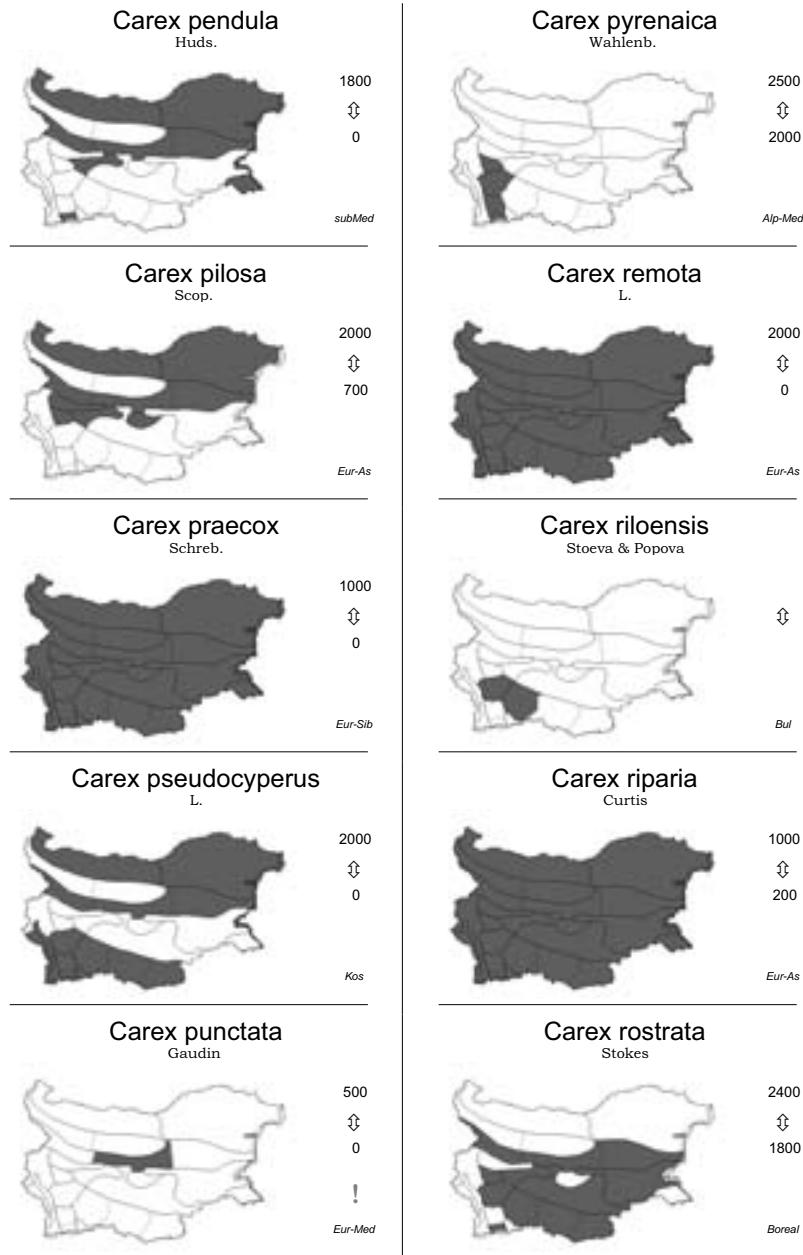
Boreal

Carex hordeistichos
Vill.1000
♂
100

subBoreal







Carex rupestris
Bellardi ex All.

2800

↓

2400

Boreal

Carex sempervirens
Vill.

2800

↓

800

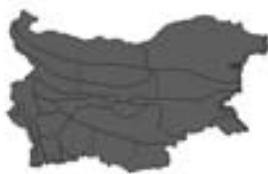
Alp-Med

Carex serotina
Mérat

2000

↓

800

Carex spicata
Huds.

1500

↓

200

Eur-As

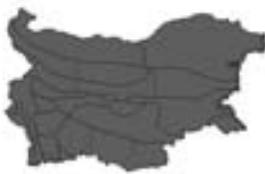
Carex strigosa
Huds.

100

↓

0

Eur-OT

Carex sylvatica
Huds.

1600

↓

200

subMed

Carex tomentosa
L.

1500

↓

200

Eur-Sib

Carex tricolor
Velen.

2700

↓

1700

Bul

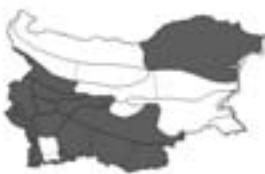
Carex umbrosa
Host

2000

↓

1500

Eur

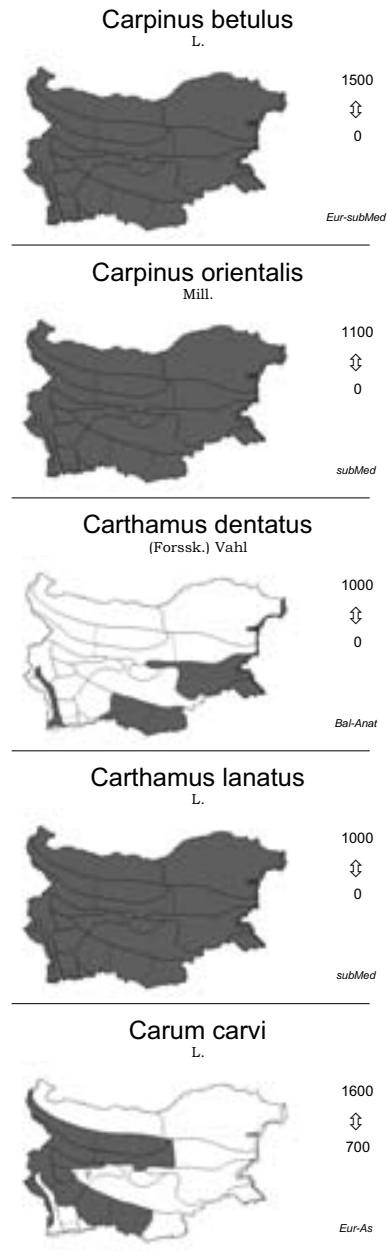
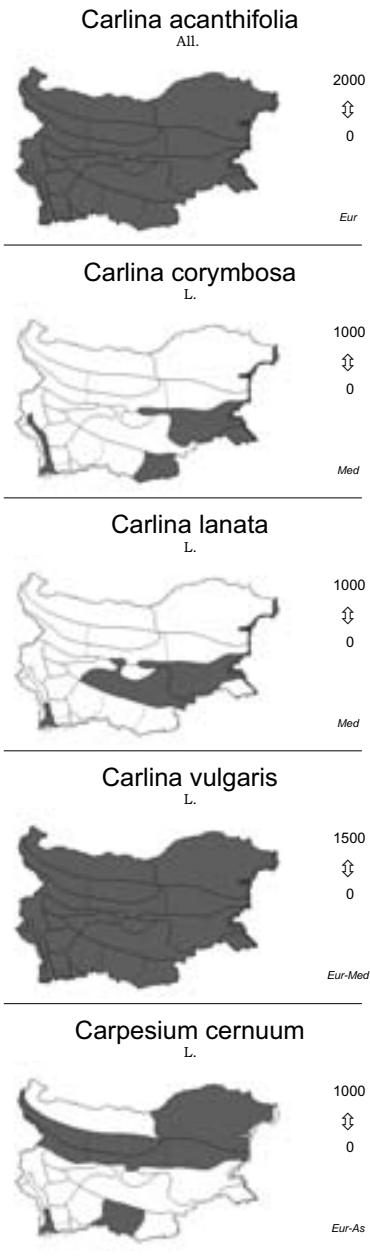
Carex vesicaria
L.

1400

↓

200

Boreal



Carum graecum
Boiss. & Heldr.

2100

↓

900

Bal

Carum multiflorum
(Sm.) Boiss.

1000

↓

0

Med

Castanea sativa
Mill.

1000

↓

0

Med

Catabrosa aquatica
(L.) P. Beauv.

800

↓

0

Boreal

Caucalis platycarpos
L.

1200

↓

0

Eur-CAs

Celtis australis
L.

500

↓

0

Med

Celtis glabrata
Steven

500

↓

0

Pont

Centaurea achtarovii
Urum.

2500

↓

2000

!

Bul

Centaurea affinis
Friv.

1000

↓

0

Bal-Dac

Centaurea alba
L.

1500

↓

0

subMed

Centaurea amplifolia
Boiss. & Heldr.



200
♂
0
!
Bal

Centaurea apiculata
Ledeb.



1000
♂
0
Eur-Sib

Centaurea arenaria
M. Bieb.



300
♂
0
!
Eur-Med

Centaurea atropurpurea
Waldst. & Kit.



1000
♂
0
!
Pont

Centaurea biebersteinii
DC.



1500
♂
1000
subMed

Centaurea bovina
Velen.



500
♂
0
!
Bul

Centaurea calcitrapa
L.



1000
♂
0
Med

Centaurea caliacrae
Prodán



200
♂
0
Bal

Centaurea calvescens
Pančić



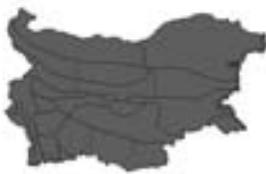
1000
♂
0
subMed

Centaurea chrysolepis
Vis.



1000
♂
0
Bal

Centaurea cuneifolia
Sm.



1000

♂

0

Bal

Centaurea cyanus
L.



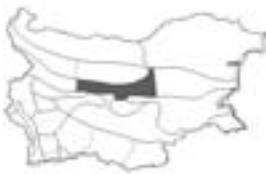
1000

♂

0

Eur-Med

Centaurea davidovii
Urum.



1700

♂

1600

Bul

Centaurea degeniana
H. Wagner



500

♂

0

Eur

Centaurea depressa
M. Bieb.



500

♂

0

Med-CAs

Centaurea deusta
Ten.



1500

♂

0

subMed

Centaurea diffusa
Lam.



1000

♂

0

Pont-Med

Centaurea euxina
Velen.



200

♂

0

Bul

Centaurea gracilenta
Velen.



1800

♂

500

!

Pont

Centaurea grinensis
Reut.



1500

♂

0

Centaurea iberica
Trev. ex Spreng.



1000

♂

0

subMed

Centaurea immanuelis-loewii
Degen



500

♂

0

Bal

Centaurea indurata
Janka



1500

♂

0

Carp-Bal

Centaurea inermis
Velen.



500

♂

0

Bal

Centaurea jacea
L.



1500

♂

0

Eur-Sib

Centaurea kamciensis
Kočev & S. P. Gančev



500

♂

0

Bul

Centaurea kernerana
Janka



2700

♂

1800

Bal

Centaurea kotschyana
Heuff. ex Koch



2900

♂

1500

Carp-Bal

Centaurea mannagettae
Podp.



1000

♂

0

Bal

Centaurea marshalliana
Spreng.



500

♂

0

Pont-Sib

Centaurea moesiaca

Urum. & H. Wagner



1300

↓

450

Bul

Centaurea napulifera

Rochel



2000

↓

0

Pann-Bal

Centaurea neiceffii

Degen & H. Wagner



1000

↓

0

Bul

Centaurea nervosa

Willd.



2900

↓

1800

Alp-Carp-Bal

Centaurea nigrescens

Willd.



1000

↓

0

subMed

Centaurea ognianoffii

Urum.



1500

↓

0

Bul

Centaurea orbelica

Velen.



2100

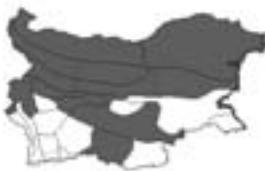
↓

800

Bal

Centaurea orientalis

L.



1500

↓

0

Pont-Med

Centaurea ovina

Pall. ex Willd.



500

↓

0

Pont

Centaurea pallidior

Halász



1800

↓

0

Bal

Centaurea pannonica
(Heuffel) Simonk.



2000
♂
0

Pont-Sib

Centaurea parilica
Stoj. & Stef.



2000
♂
1000
!
Bal

Centaurea phrygia
L.



1500
♂
500
Eur

Centaurea pichleri
Sm.



800
♂
0
!
Bal

Centaurea pseudoaxillaris
Stef. & T. Georg.



450
♂
100
!
Bal

Centaurea rocheliana
(Heuffel) Dostál



800
♂
0

Eur

Centaurea rumelica
Boiss.



500
♂
0
!
Bal

Centaurea rupestris
L.



800
♂
0
!
subMed

Centaurea rutifolia
Sm.

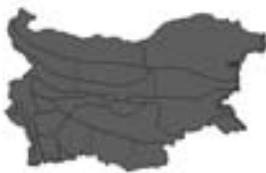


500
♂
0
Pont

Centaurea salonitana
Vis.



1000
♂
0
Pont-Med

Centaurea scabiosa
L.

1500

♂

0

Centaurea solstitialis
L.

1000

♂

0

Centaurea splendens
L.

1500

♂

0

Pont-Med

Centaurea stenolepis
A. Kern.

1000

♂

0

subMed

Centaurea stereophylla
Besser

1000

♂

0

Pont

Centaurea sterilis
Steven

200

♂

0

Pont

Centaurea stoebe
L.

2700

♂

100

subMed

Centaurea subciliaris
Boiss. & Heldr.

♂

Bal

Centaurea tenuiflora
DC.

1000

♂

0

Eur

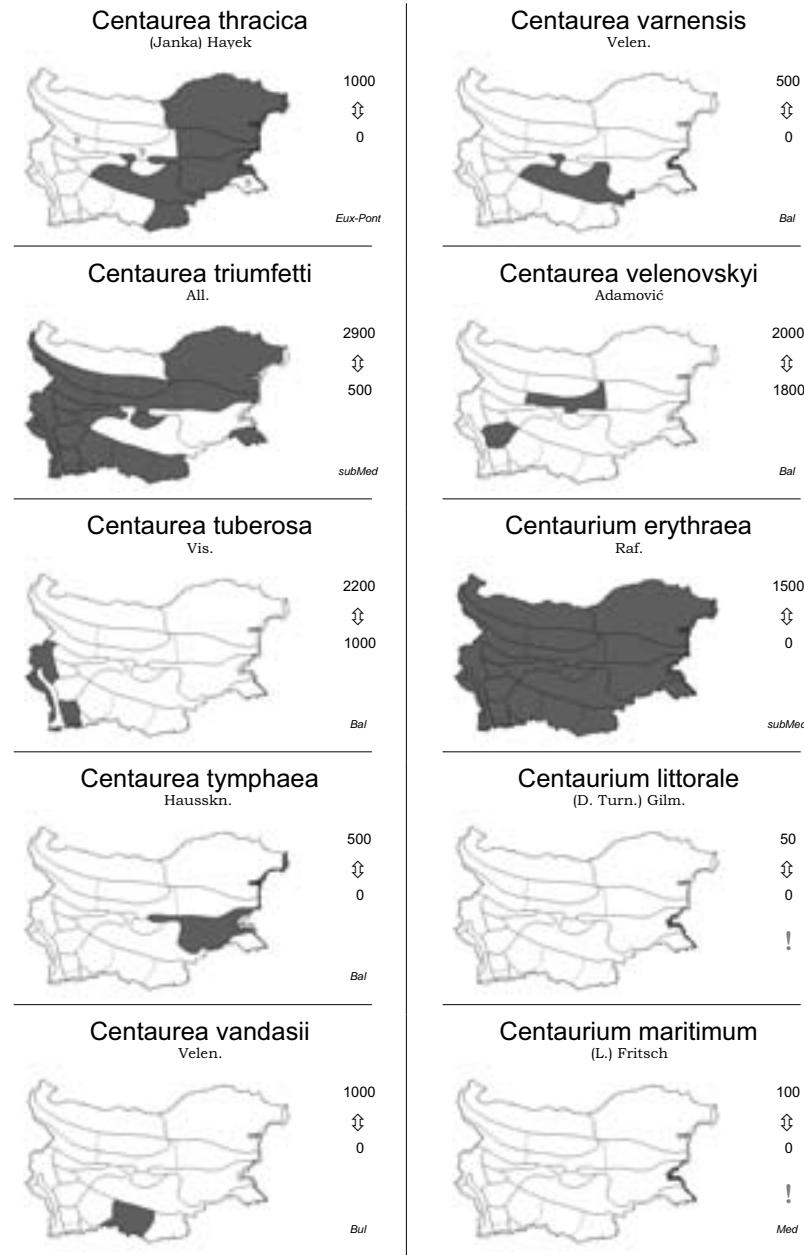
Centaurea thirkei
Sch. Bip.

800

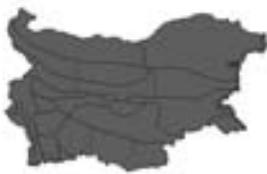
♂

0

Bal-Anat



Centaurium pulchellum
(Sw.) Druce



1000

♂

0

Eur-As

Centaurium spicatum
(L.) Fritsch



600

♂

0

Eur-As

Centaurium turcicum
(Velen.) Ronniger ex Fritsch



900

♂

0

subMed

Centranthus kellereri
(Stoj., Stef. & T. Georg.) Stoj. et Stef.



2400

♂

1000

!

Bul

Cephalanthera damasonium
(Mill.) Druce



1500

♂

0

subMed

Cephalanthera epipactoides
Fisch. & C. A. Mey.



300

♂

0

!

Bal-Anat

Cephalanthera longifolia
(L.) Fritsch



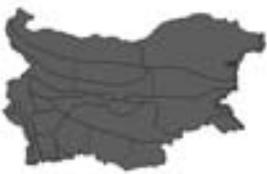
1000

♂

0

Eur-OT

Cephalanthera rubra
(L.) Rich.



1700

♂

0

Eur-As

Cephalaria flava
(Sm.) Szabó



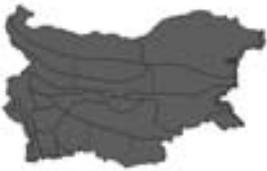
2900

♂

1000

Bal

Cephalaria laevigata
(Waldst. & Kit.) Schrad.



1000

♂

0

subMed

Cephalaria syriaca
(L.) Roem. & Schult.



1000
◻
0

Pont-Med

Cephalaria transsylvanica
(L.) Roem. & Schult.



1000
◻
0

Pont-Med

Cephalaria uralensis
(Murr.) Roem. & Schult.



1000
◻
0

Pont-Med

Cephalorrhynchus tuberosus
(Steven) Schchian



1000
◻
0

Pont

Cerastium alpinum
L.



2900
◻
1500

Arct-Alp

Cerastium arvense
L.



2000
◻
1000

Boreal

Cerastium banaticum
(Rochel) Heuff.



2000
◻
1000

subMed

Cerastium brachypetalum
Pers.



500
◻
0

Eur-Med

Cerastium bulgaricum
Uechtr.



1000
◻
0

Bul

Cerastium cerastoides
(L.) Britton



2900
◻
2000

Arct-Alp

Cerastium decalvans
Schloss.



2500

♂

0

Bal

Cerastium dubium
(Bast.) Guépin



1000

♂

0

Eur

Cerastium fontanum
Baumg.



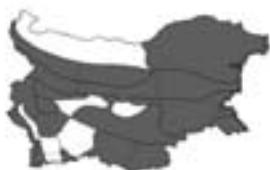
2400

♂

0

Eur

Cerastium glomeratum
Thuill.



1000

♂

0

Kos

Cerastium luridum
Guss.



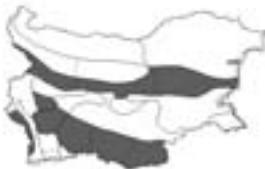
1000

♂

0

Eur-Med

Cerastium moesiacum
Friv.



2000

♂

0

Bal

Cerastium perforiatum
L.



1000

♂

0

Pont-Med

Cerastium petricola
Panić



1500

♂

0

Bal

Cerastium pumilum
Curtis



1400

♂

0

Eur-Med

Cerastium rectum
Friv.



1000

♂

0

Bal-Dac

Cerastium roeseri
Boiss. & Heldr.



2900

0

Eur-Med

Cerastium semidecandrum
L.



1000

0

Eur-Med

Cerastium tauricum
Spreng.



2900

0

Pont-Med

Cerastium tenoreanum
Ser.



800

0

subMed

Cerastium velenovskyi
Hayek



500

0

Bul

Ceratocarpus arenarius
L.



300

0

Eur-As

Ceratocephalus falcatus
(L.) Pers.



700

0

SubMed-CAs

Ceratocephalus testiculatus
(Crantz) Roth



700

0

Eur-As

Ceratophyllum demersum
L.



200

0

Kos

Ceratophyllum muricatum
Cham.



200

100

Med-CAs

Ceratophyllum submersum

L.



200

♂

0

Cercis siliquastrum

L.



500

♂

0

Cerinthe glabra

Mill.



2500

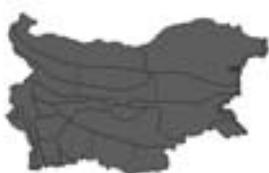
♂

1500

subMed

Cerinthe minor

L.



1200

♂

0

Pont-Med

Ceterach officinarum

DC.



1500

♂

0

subMed

Chaenorhinum minus

(L.) Lange



1000

♂

0

Eur-Med

Chaerophyllum aureum

L.



2100

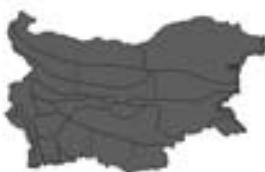
♂

800

Eur-Med

Chaerophyllum bulbosum

L.



1300

♂

0

Eur-As

Chaerophyllum byzantinum

Boiss.



1300

♂

0

Bal-Anat

Chaerophyllum hirsutum

L.



2200

♂

900

subMed

Chaerophyllum temulentum

L.



1200



0

Eur-Med

Chamaecytisus absinthioides

(Janka) Kuzmanov



2500



500

Bal

Chamaecytisus albus

(Hack.) Rothm.



1500



100

Eur

Chamaecytisus austriacus

(L.) Link



1500



0

Eur-Med

Chamaecytisus banaticus

(Griseb. & Schenk) Rothm.



1000



0

Pann-Bal

Chamaecytisus calcareus

(Velen.) Kuzmanov



1000



0

Bal

Chamaecytisus ciliatus

(Wahlenb.) Rothm.



1800



0

Pont-Med

Chamaecytisus danubialis

(Velen.) Rothm.



100



0

Pont

Chamaecytisus frivaldszkyanus

(Degen) Kuzmanov



1200



0

Bul

Chamaecytisus glaber

(L. f.) Rothm.



1500



0

Bal-Dac

Chamaecytisus heuffelii
(Wierzb.) Rothm.



1500

♂

500

Pann-Bal

Chamaecytisus hirsutus
(L.) Link



2000

♂

0

Eur-Sib

Chamaecytisus jankae
(Velen.) Rothm.



1500

♂

0

Bal

Chamaecytisus kovacevii
(Velen.) Rothm.



1500

♂

0

Bul

!

Chamaecytisus lejocarpus
(A. Kern.) Rothm.



1600

♂

200

Bal-Dac

Chamaecytisus neiceffii
(Urum.) Rothm.



500

♂

200

!

Bul

Chamaecytisus polytrichus
(M. Bieb.) Rothm.



1000

♂

500

Med

Chamaecytisus pygmaeus
(Willd.) Rothm.



2400

♂

1300

Bal-Anat

Chamaecytisus ratisbonensis
(Schaeff.) Rothm.



1000

♂

1000

!

subMed

Chamaecytisus rochelii
(Wierzb.) Rothm.

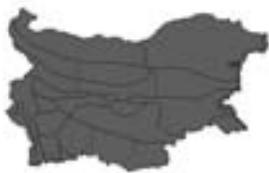


1200

♂

0

Pont-Med

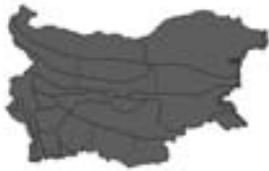
Chamaecytisus supinus
(L.) Link

1000

♂

0

Eur-Med

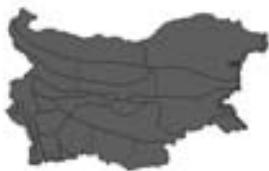
Chamaespartium sagittale
(L.) Gibbs

2000

♂

0

Eur

Chamomilla recutita
(L.) Rauscher

1000

♂

0

Eur-As

Chamomilla suaveolens
(Pursh) Rydb.

1000

♂

0

Adv

Cheilanthes marantae
(L.) Domin.

1200

♂

0

subMed

Cheilanthes persica
(Bory) Mett. ex Kuhn

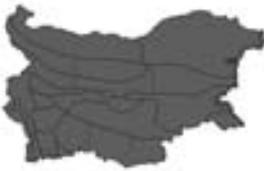
1500

♂

0

!

Med-CAs

Chelidonium majus
L.

1500

♂

0

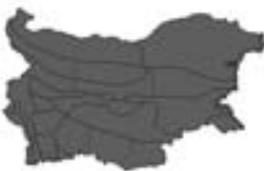
Eur-As

Chenopodium acuminatum
Willd.

100

♂

0

Chenopodium album
L.

1000

♂

0

Kos

Chenopodium ambrosioides
L.

250

♂

0

Adv

Chenopodium bonus-henicus
L.2000
♂
800

Alp-Med

Chenopodium botrys
L.900
♂
0

Boreal

Chenopodium chenopodioides
(L.) Aellen.1000
♂
0

subBoreal

Chenopodium ficifolium
Sm.1000
♂
0

Eur-As

Chenopodium glaucum
L.1000
♂
0

Eur-As

Chenopodium hybridum
L.1000
♂
0

Boreal

Chenopodium multifidum
L.300
♂
0

Adv

Chenopodium murale
L.1000
♂
0

Kos

Chenopodium opulifolium
Schrad. ex Koch & Ziz.800
♂
0

Med-CAs

Chenopodium polyspermum
L.1000
♂
0

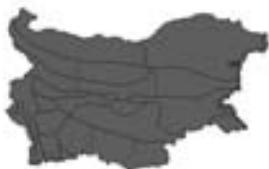
Eur-Sib

Chenopodium rubrum
L.1000
‡
0

subBoreal

Chenopodium schraderianum
Schult.1000
‡
0

Adv

Chenopodium urbicum
L.1000
‡
0

Eur-As

Chenopodium virgatum
L.900
‡
0

Eur

Chenopodium vulvaria
L.800
‡
0

Eur-As

Chondrilla juncea
L.1000
‡
0

Eur-Sib

Chondrilla urumoffii
Degen1800
‡
800

!

Bal

Chorispora tenella
(Pall.) DC.150
‡
0

Eur-As

Chrozophora tinctoria
(L.) Juss.300
‡
0

Med

Chrysopogon gryllus
(L.) Trin.1300
‡
0

Pont-Med

Chrysosplenium alternifolium
L.

1800

♂

0

subBoreal

Cicer montbretii
Jaub. & Spach

300

♂

0

Bal-Anat

Cicerbita alpina
Wallr.

2000

♂

1500

Eur-Med

Cicerbita pančićii
(Vis.) P. Beauv.

2000

♂

1500

Bal

Cicerbita plumieri
(L.) Kirsch.

2000

♂

1000

Alp-Med

Cichorium endivia
L.

200

♂

0

Med

Cichorium intybus
L.

1000

♂

0

Eur-Sib

Cicuta virosa
L.

100

♂

0

Eur-As

Cionura erecta
(L.) Griseb.

300

♂

0

Med

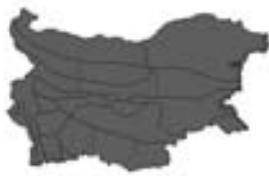
Circaeal alpina
L.

1450

♂

1450

Boreal

Circaeae luteiana
L.

2000

♂

0

Boreal

Cirsium alatum
(S. G. Gmel.) Bobr.

0

♂

0

Pont-Sib

Cirsium appendiculatum
Griseb.

2500

♂

1000

Bal

Cirsium arvense
(L.) Scop.

2000

♂

0

Eur-As

Cirsium bulgaricum
DC.

200

♂

0

Bal-Anat

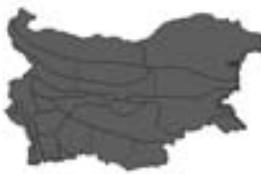
Cirsium candelabrum
Griseb.

2000

♂

1000

Carp-Bal

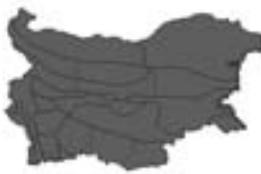
Cirsium canum
(L.) All.

1000

♂

0

Eur-Med

Cirsium creticum
(Lam.) D'Urv.

1000

♂

0

Med

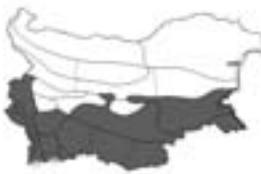
Cirsium heterotrichum
Pančić

2500

♂

0

Bal

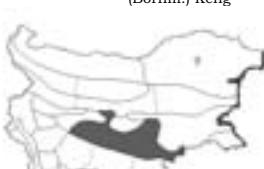
Cirsium italicum
(Savi) DC.

1000

♂

0

Med

<p>Cirsium ligulare Boiss.</p>  <p>1800 ♂ 0 <i>Med</i></p>	<p>Cistus incanus L.</p>  <p>700 ♂ 0 <i>Med</i></p>
<p>Cirsium oleraceum (L.) Scop.</p>  <p>1500 ♂ 600 <i>Pont-Sib</i></p>	<p>Cistus salviifolius L.</p>  <p>200 ♂ 0 ! <i>Eur-As</i></p>
<p>Cirsium pannonicum (L. f.) Link</p>  <p>700 ♂ 0 <i>Eur-Med</i></p>	<p>Citrullus colocynthis (L.) Schrad.</p>  <p>200 ♂ 0 <i>Adv</i></p>
<p>Cirsium stojanovii Kuzmanov</p>  <p>500 ♂ 0 ! <i>Bal</i></p>	<p>Cladium mariscus (L.) Pohl</p>  <p>400 ♂ 0 ! <i>Kos</i></p>
<p>Cirsium vulgare (Savi) Ten.</p>  <p>1500 ♂ 0 <i>Eur-Med</i></p>	<p>Cleistogenes bulgarica (Bornm.) Keng</p>  <p>100 ♂ 0 <i>Pont</i></p>

Cleistogenes serotina
(L.) Keng



1000

♂

0

Eur-subMed

Clematis alpina
(L.) Mill.



2000

♂

1000

!

Eur

Clematis flammula
L.



1000

♂

0

Med

Clematis integrifolia
L.



1000

♂

0

Eur-As

Clematis recta
L.



2000

♂

0

subMed

Clematis vitalba
L.



2000

♂

0

Eur

Clematis viticella
L.



1000

♂

0

Pont-Med

Cleome ornithopodioides
L.



800

♂

0

Med-CAs

Clinopodium vulgare
L.



2000

♂

0

subBoreal

Clypeola jonthlaspi
L.

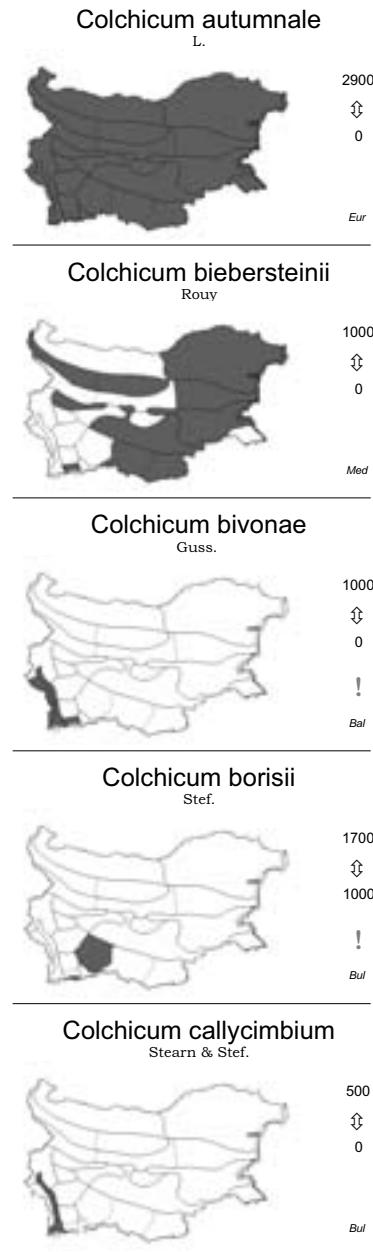
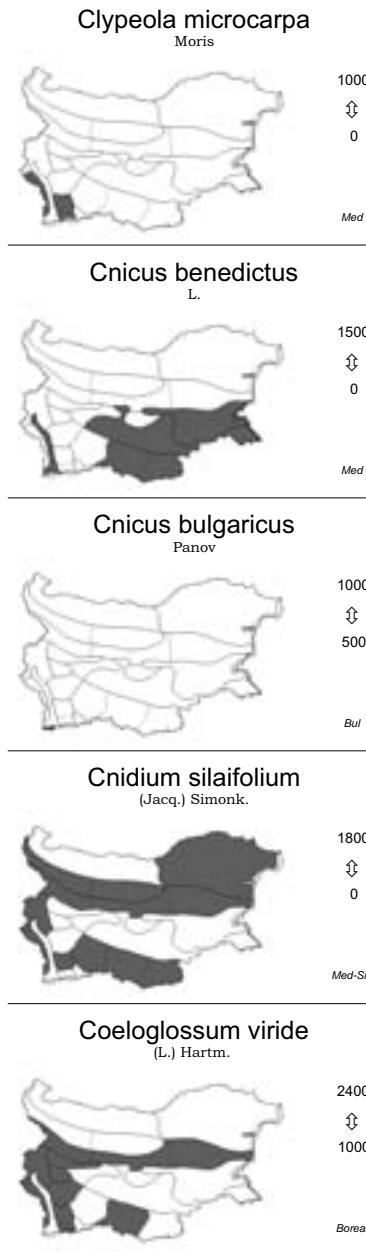


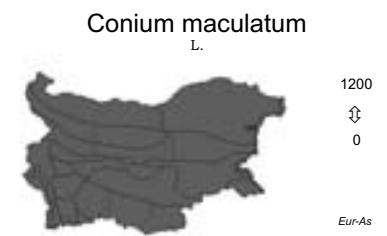
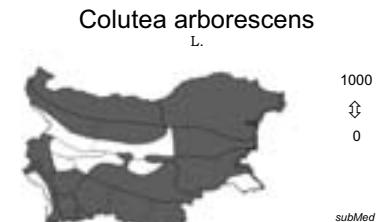
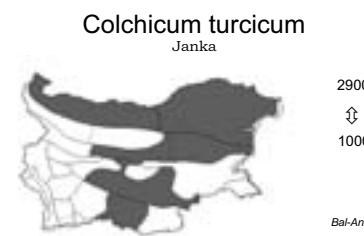
700

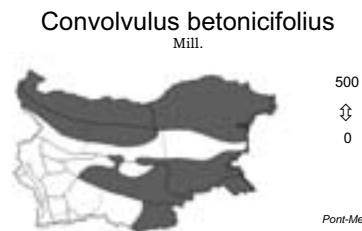
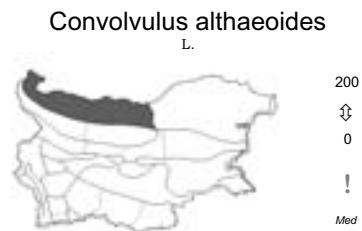
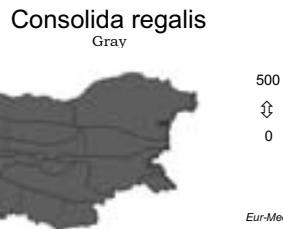
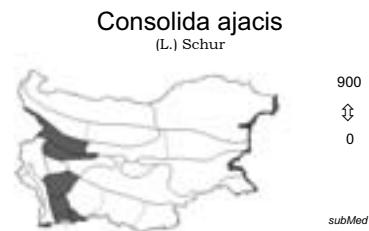
♂

0

Med







Convolvulus boissieri

Steud.



2000

♂

0

!

Med

Convolvulus cantabrica

L.



1000

♂

0

Pont

Convolvulus holosericeus

M. Bieb.



1000

♂

0

Pont-Med

Convolvulus lineatus

L.



100

♂

0

Eur-As

Convolvulus persicus

L.



10

♂

0

Pont-As

Conzya bonnariensis

(L.) Cronquist



300

♂

0

SAM (Adv)

Conzya canadensis

(L.) Cronquist



1000

♂

0

NAm (Adv)

Corallorrhiza trifida

Châtel



1700

♂

0

Boreal

Coriandrum sativum

L.



300

♂

0

Pont-Med

Corispermum marschalii

Steven



50

♂

0

Pont-Sib

Corispernum nitidum
Kit.100
0
0

Eur

Cornus mas
L.1300
0
0

subMed

Cornus sanguinea
L.1800
0
0

subMed

Coronilla cretica
L.500
0
0

Med

Coronilla elegans
L.300
0
0

Pont

Coronilla emerus
L.900
0
0

subMed

Coronilla scorpioides
(L.) C. Koch300
0
0

subMed

Coronilla varia
L.2000
0
0

Eur-Med

Coronopus squamatus
(Forssk.) Asch.1000
0
0

Eur-Med

Corothamnus agnipilus
(Velen.) Klásk.1500
300
0

Bal

Corothamnus procumbens
(Waldst. & Kit.) C. Presl



1000
♂
0

Eur-Med

Corothamnus rectipilosus
(Adamović) Skalická



2000
♂
600

Bal

Corrigiola litoralis
L.



1000
♂
0

subMed

Cortusa mathioli
L.



2000
♂
1300

Arct-Alp

Corydalis bulbosa
(L.) DC.



2500
♂
0

Eur-Med

Corydalis marschalliana
(Pall.) Pers.



2000
♂
0

subMed

Corydalis slivenensis
Velen.



1200
♂
0

subMed

Corydalis solida
(L.) Schwarz



2600
♂
0

Eur-Med-CAs

Corylus avellana
L.



1800
♂
0

Med-CAs

Corylus colurna
L.



1200
♂
0

Pont-CAs

Corynephorus divaricatus
(Pourret) Breistr.



300

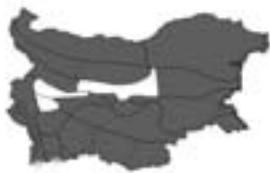
♂

0

!

Pont-Med

Cotinus coggygria
Scop.



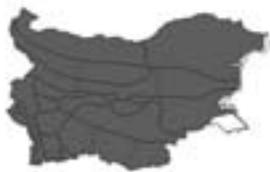
1000

♂

0

Med-As

Cotoneaster integerrimus
Medicus



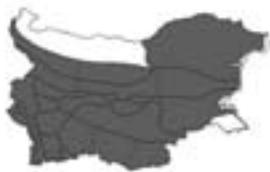
2600

♂

300

Eur-Sib

Cotoneaster nebrodensis
(Guss.) C. Koch



2000

♂

800

subMed

Cotoneaster niger
(Thunb.) Fr.



700

♂

50

Eur-As

Crambe maritima
L.



300

♂

0

Eur

Crambe tataria
Sebeök



300

♂

0

!

Eur-Sib

Crassula tillaea
Lest.-Garl.



500

♂

0

subMed

Crataegus heldreichii
Boiss.



500

♂

0

Bal

Crataegus microphylla
C. Koch

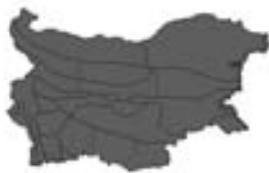


100

♂

0

Eux

Crataegus monogyna
Jacq.

1500

♂

0

subBoreal

Crataegus orientalis
Pall. ex M. Bieb.

1000

♂

200

!

Med

Crataegus pentagyna
Waldst. & Kit.

400

♂

50

subMed

Crataegus rhipidophylla
Gand.

1500

♂

0

subBoreal

Crepis biennis
L.

1600

♂

0

subMed

Crepis bithynica
Boiss.

2500

♂

1800

!

Bal

Crepis capillaris
(L.) Wallr.

600

♂

0

subMed

Crepis conyzifolia
(Gouan) A. Kern.

2300

♂

600

subMed

Crepis foetida
L.

1000

♂

0

Eur-Med

Crepis mollis
(Jacq.) Asch.

2800

♂

2500

Eur

Crepis nicaeensis
Balb.



800
0
subMed

Crepis paludosa
(L.) Moench



2800
2000
Eur-Sib

Crepis pannonica
(Jacq.) C. Koch



500
0
Pont-OT

Crepis praemorsa
(L.) Tausch



2000
0
Pont-Sib

Crepis pulchra
L.



1000
0
Eur-Med

Crepis sancta
(L.) Babc.



1000
0
subMed

Crepis schachti
Babcock



2200
1300
Bul

Crepis setosa
Haller f.



1000
0
Eur-Med

Crepis stojanovii
T. Georg.



1000
0
Bul

Crepis tectorum
L.



1000
0
Eur-Sib

Crepis viscidula
Froel.

1800

□

1300

Carp-Bal

Crepis zacintha
(L.) Babcock

1000

□

0

Med

Cressa cretica
L.

0

□

0

Med-CAs

Crithmum maritimum
L.

100

□

0

subMed

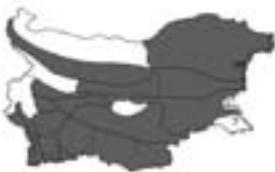
Crocus biflorus
Mill.

1800

□

0

Med

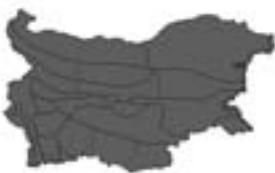
Crocus chrysanthus
(Herbert) Herbert

1800

□

0

Bal-Anat

Crocus flavus
Weston

1500

□

0

Eur-Pont

Crocus olivieri
J. Gay

1000

□

0

Bal

Crocus pallasii
Goldb.

1000

□

0

Pont-Med

Crocus pallidus
Kitanov & Drenkovsky

200

□

0

Bal

Crocus pulchellus
Herbert



Crocus reticulatus
Steven ex Adams



Crocus tommasinianus
Herbert



Crocus veluchensis
Herbert



Crucianella angustifolia
L.



Crucianella graeca
Boiss.



Crucianella latifolia
L.



Cruciata glabra
(L.) Ehrend.



Cruciata laevipes
Opiz



Cruciata pedemontana
(Bellardii) Ehrend.



Crupina crupinastrum
(Moris) Vis.



800

↓

0

Med

Crupina vulgaris
Cass.



1500

↓

0

subMed

Crypsis aculeata
(L.) Aiton



200

↓

0

Eur-As

Crypsis alopecuroides
(Piller & Mitterp.) Schrad.



1200

↓

0

Eur-As

Crypsis schoenoides
(L.) Lam.



200

↓

0

Boreal

Cryptogramma crispa
(L.) R. Br.



2500

↓

2000

!

Eur-Sib

Cucubalus baccifer
L.



1300

↓

0

Eur-As

Cuscuta approximata
Bab.



1500

↓

200

Med-NAm

Cuscuta campestris
Yunck.



1800

↓

0

Eur-As

Cuscuta cesatiana
Bertol.



300

↓

0

Kos

Cuscuta epilinum
Weihe800
800

Eur-As

Cuscuta epithymum
(L.) L.1800
0

Eur

Cuscuta europaea
L.2600
0

subBoreal

Cuscuta lupuliformis
Krock.300
0

Eur-As

Cuscuta monogyna
Vahl1500
0

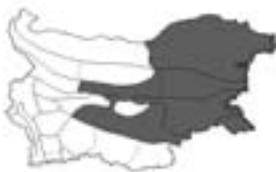
Eur-As

Cuscuta planiflora
Ten.1500
200

Med

Cuscuta trifolii
Bab.0
0

subMed

Cyclamen coum
Mill.500
0

!

Pont-Med

Cyclamen hederifolium
Aiton600
0

subMed

Cymbalaria muralis
Gaertn., B.Mayer & Schreb1000
0

Med

Cynanchum acutum
L.*Cynodon dactylon*
(L.) Pers.*Cynoglossum creticum*
Mill.*Cynoglossum germanicum*
Jacq.*Cynoglossum hungaricum*
Simonk.*Cynoglossum officinale*
L.*Cynoglossum rotatum*
Velen.*Cynosurus cristatus*
L.*Cynosurus echinatus*
L.*Cyperus difformis*
L.

Cyperus fuscus
L.1000
♂
0

Boreal

Cyperus strigosus
L.200
♂
0

Nam (Adv)

Cypripedium calceolus
L.1500
♂
800
!

Eur-As

Cystopteris alpina
(Lam.) Desv.2500
♂
1200
!

Kos

Cystopteris fragilis
(L.) Bernh.2300
♂
0

Kos

Cytinus clusii
(Nyman) Gand.300
♂
0
!

Med

Dactylis glomerata
L.1500
♂
0

Eur-As

Dactylorhiza baumanniana
Höglz. & Künkele2000
♂
500

Bal

Dactylorhiza cordigera
(Fries) Sóó2400
♂
700

Carp-Bal

Dactylorhiza incarnata
(L.) Sóó1500
♂
0
!

Arct-Alp

Dactylorhiza kalopisii

E. Nelson



1000

♂

0

!

Bal

Dactylorhiza pindica

B. & E. Willing



1500

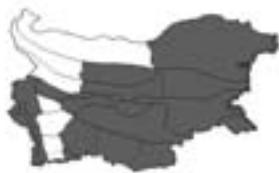
♂

500

Bal

Dactylorhiza romana

(Sebast. & Mauri) Sóo



500

♂

0

Med-CAs

Dactylorhiza saccifera

(Bronn.) Sóo



2200

♂

0

Eur-Sib

Dactylorhiza sambucina

(L.) Sóo



2200

♂

500

Eur

Danthonia alpina

Vest



1500

♂

0

Eur

Danthoniastrum compactum

(Boiss. & Heldr.) Holub



300

♂

0

Bal-Anat

Daphne blagayana

Freyer



1900

♂

1500

!

Carp-Bal

Daphne cneorum

L.



2700

♂

900

subMed

Daphne laureola

L.



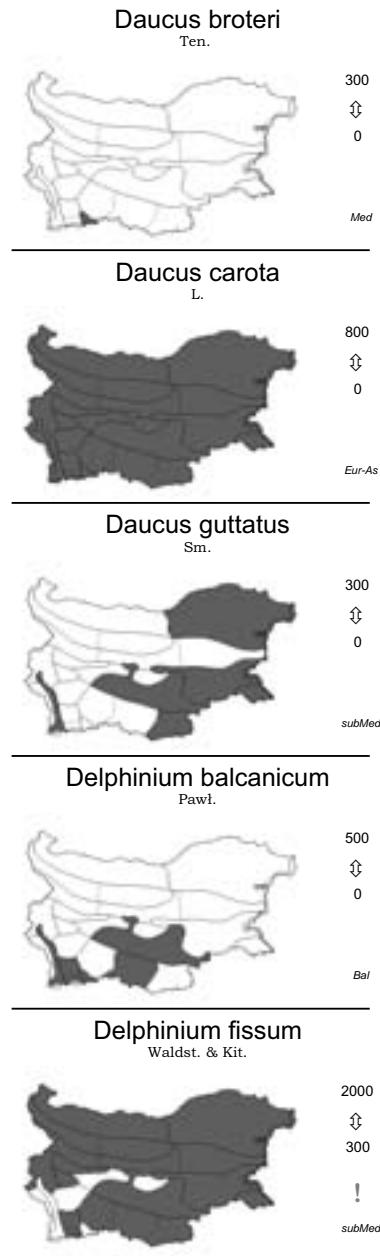
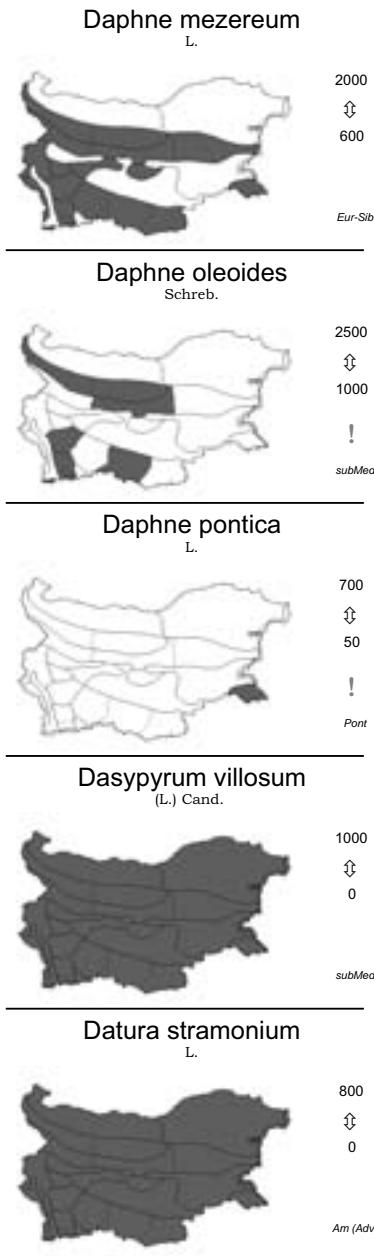
1900

♂

1000

!

subMed



Delphinium peregrinum
L.*Deschampsia caespitosa*
(L.) P. Beauv.*Descurainia sophia*
(L.) Webb ex Prantl*Desmazeria rigida*
(L.) Tutin*Dianthus armeria*
Griseb. ex Janka*Dianthus barbatus*
L.*Dianthus barbatus*
L.*Dianthus burgasensis*
Tutin*Dianthus capitatus*
Balb. ex DC.*Dianthus cartusianorum*
L.

Dianthus cruentus
Griseb.

2600

♂
0

Bal

Dianthus deltoides
L.

2000

♂
0

Eur-Sib

Dianthus diffusus
Sm.

200

♂
0

Bal

Dianthus drenowskyanus
Rech. f.

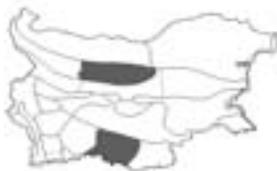
2000

♂
1000

Bal

Dianthus freynii
Vand.

♂

Dianthus giganteiformis
Borbás

1500

♂
500

Pann-Bal

Dianthus giganteus
D'Urv.

2000

♂
0

subMed

Dianthus gracilis
Sm.

2200

♂
500

Bal

Dianthus leptopetalus
Willd.

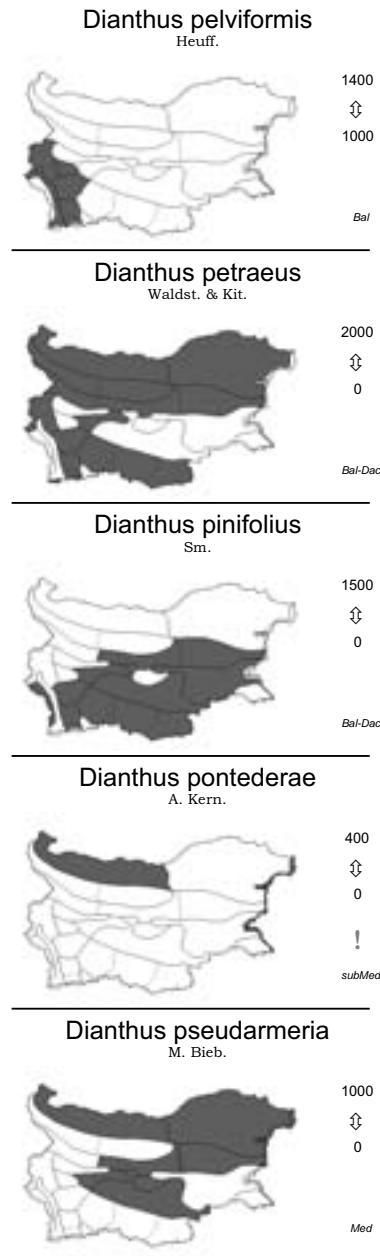
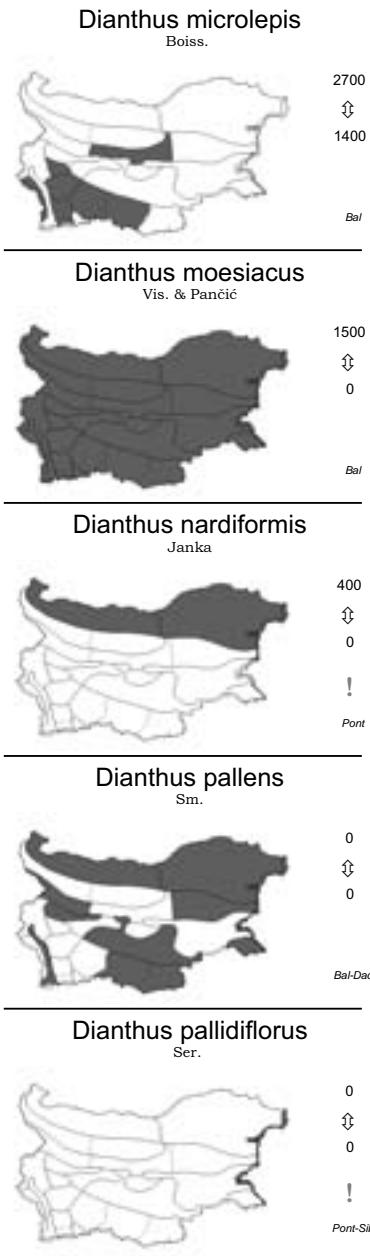
♂

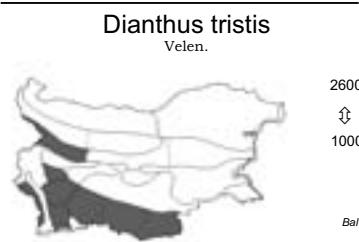
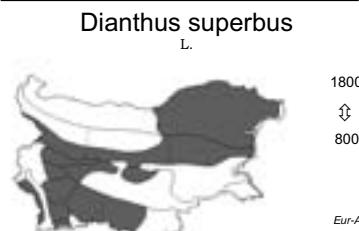
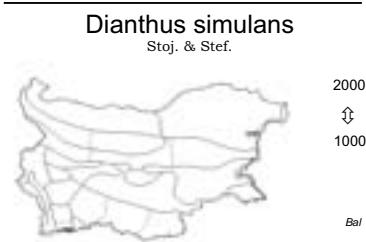
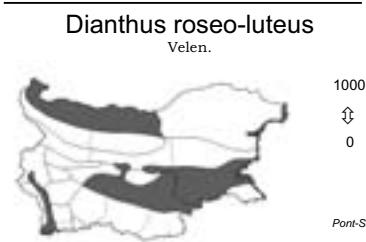
Dianthus membranaceus
Borbás

500

♂
0

Pont





Dichanthium ischaemum
(L.) Roberty



Dichostylis hamulosa
(M. Bieb.) Nees



Dichostylis michelianus
(L.) Nees



Dictamnus albus
L.



Digitalis ferruginea
L.



Digitalis grandiflora
Mill.



Digitalis laevigata
Waldst. & Kit.



Digitalis lanata
Ehrh.



Digitalis viridiflora
Lindl.



Digitaria ischaemum
(Schreb.) Muhl.



Digitaria sanguinalis
(L.) Scop.500
♂
0

Kos

Diphasiastrum alpinum
(L.) Holub2100
♂
1700

! Boreal

Diphasiastrum complanatum
(L.) Holub1400
♂
1400

! Boreal

Diplotaxis muralis
(L.) DC.900
♂
0

Eur-Med

Diplotaxis tenuifolia
(L.) DC.800
♂
0

Eur-Med

Diplotaxis viminea
(L.) DC.700
♂
0

Eur-Med

Dipsacus ferox
Loisel.1000
♂
0

Med

Dipsacus fullonum
L.1000
♂
0

Eur-OT

Dipsacus laciniatus
L.1000
♂
0

Eur-Med

Dipsacus pilosus
L.2000
♂
0

Pont-sMed

Dittrichia graveolens
(L.) Greuter



Dittrichia viscosa
(L.) Greuter



Doronicum austriacum
Jacq.



Doronicum columnae
Ten.



Doronicum hungaricum
Rchb.



Doronicum orientale
Hoffm.



Dorycnium germanicum
(Greml.) Rikli



Dorycnium graecum
(L.) Ser.



Dorycnium herbaceum
Vill.



Draba compacta
Schott



Draba korabensis
Kumm. & Degen ex Jav.



2200

♂

2200

!

Bal

Draba lasiocarpa
Rochel



1500

♂

0

Eur-Med

Draba muralis
L.



1500

♂

0

Eur-Med

Draba siliquosa
M. Bieb.



2600

♂

1800

Alp-Carp

Dracocephalum triflorum
L.



300

♂

0

subMed

Dracunculus vulgaris
Schott



200

♂

200

!

Med

Drosera rotundifolia
L.



2000

♂

1500

!

Boreal

Dryas octopetala
L.



2900

♂

2000

Boreal

Dryopteris affinis
(Lowe) Fraser-Jenk.



1950

♂

200

Dryopteris carthusiana
(Vill.) H. P. Fuchs



2700

♂

1000

Boreal

Dryopteris dilatata
(Hoffm.) A. Gray



2300

↓

1500

Boreal

Ecballium elaterium
(L.) A. Rich.



400

↓

0

Med

Dryopteris expansa
(C. Presl) Fraser-Jenk. & Jeremy



2000

↓

1500

Echinaria capitata
(L.) Desf.



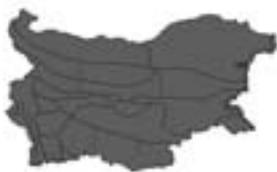
500

↓

0

Med

Dryopteris filix-mas
(L.) Schott



1800

↓

0

Boreal

Echinochloa crus-galli
(L.) P. Beauv.



500

↓

0

Kos

Dryopteris pallida
(Bory) Maire & Petitm.



2900

↓

2400

subBoreal

!

Echinochloa oryzoides
(Ard.) Fritsch



50

↓

0

As

Duchesnea indica
(Andrews) Focke



300

↓

0

Adv

Echinocystis lobata
(Michx.) Torr. & Gray



200

↓

0

NAm (Adv)

Echinophora sibthorpiana
Guss.



300
♂
0

Echinops banaticus
Rochel ex Schrad.



1500
♂
300

Echinops exaltatus
Schrad.



1000
♂
0

Echinops microcephallus
Sm.



1000
♂
0

Echinops oxyodontus
Bornm. & Diels



700
♂
0

Echinops ritro
L.



800
♂
0

Echinops sphaerocephalus
L.



1000
♂
0

Echium italicum
L.



1000
♂
0

Echium plantagineum
L.



1000
♂
0

Echium russicum
J. F. Gmel.



1000
♂
0

Echium vulgare
L.1500
♂
0

Eur-As

Edraianthus graminifolius
(L.) DC.500
♂
0

Bal

Edraianthus serbicus
(A. Kern.) Petrović1300
♂
0
!

Bal

Elaeagnus angustifolia
L.500
♂
0

Adv

Elaeagnus multiflora
L.50
♂
0

Adv

Elatine alsinastrum
L.500
♂
0

Eur-As

Elatine ambigua
Wigth500
♂
0

Pont-As

Elatine triandra
Schkuhr500
♂
100

Boreal

Eleocharis acicularis
(L.) Roem. & Schult.600
♂
50

Boreal

Eleocharis carniolica
W. Koch50
♂
50

!

Eleocharis mamillata
Lindb. f.



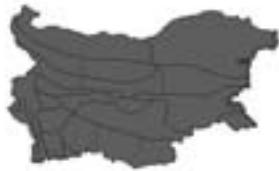
2400

◻

2100

Boreal

Eleocharis palustris
(L.) R. Br.



2200

◻

50

Kos

Eleocharis quinqueflora
(Hartm.) O. Schwartz



1000

◻

50

Arct

Eleocharis uniglumis
(Link) Schult.



500

◻

50

Kos

Eleusine indica
(L.) Gaertn.



500

◻

0

Adv

Eleusine tristachya
(Lam.) Lam.



500

◻

0

Adv

Elodea canadensis
Michx.



1000

◻

0

NAm (Adv)

Elymus caninus
(L.) L.



1700

◻

0

Boreal

Elymus elongatus
(Host) Runemark



900

◻

0

Pont-sMed

Elymus farctus
(Viv.) Runemark ex Melderis



0

◻

0

subMed

Elymus hispidus
(Opiz) Melderis



1400

♂

0

Pont-CAs

Elymus panormitanus
(Parl.) Tzvelev



1200

♂

0

Pont-Med

Elymus pycnanthus
(Godr.) Melderis



50

♂

0

Med

Elymus repens
(L.) Gould.



1600

♂

0

Boreal

Elymus varnensis
(Velen.) Kožuharov



300

♂

0

Pont

Empetrum hermaphroditum
Hagerup



2700

♂

2200

!

Boreal

Ephedra distachya
L.



600

♂

0

!

Pont-Med

Ephedra fragilis
Desf.



300

♂

0

!

Med

Epilobium alpestre
(Jacq.) Krock.



1800

♂

0

Alp-Med

Epilobium alsinifolium
Vill.



1400

♂

800

Eur

Epilobium anagallidifolium
Lam.



2500

♂

0

Boreal

Epilobium angustifolium
L.



1800

♂

100

subBoreal

Epilobium collinum
C. C. Gmel.



2700

♂

0

Eur-Med

Epilobium dodonaei
Vill.



2000

♂

500

Pont-Med

Epilobium hirsutum
L.



1400

♂

0

Boreal

Epilobium lanceolatum
Sebast. & Mauri



1200

♂

500

subBoreal

Epilobium montanum
L.



1500

♂

0

Eur-OT

Epilobium nutans
F. W. Schmidt



2500

♂

0

Eur

Epilobium obscurum
Schreb.



1500

♂

500

Eur-Med

Epilobium palustre
L.



2100

♂

500

subBoreal

Epilobium parviflorum
Schreb.



1200



0

subBoreal

Epilobium roseum
Schreb.



1500



500

Eur-Med

Epilobium tetragonum
L.



1400



0

subBoreal

Epimedium pubigerum
(DC.) Morren & Decne



300



0

Bal-Anat

Epipactis atrorubens
(Hoffm.) Besser



1000



0

Eur-As

Epipactis gracilis
P. & H. Baumann



1800



1000

EMed

Epipactis greuteri
H. Baumann & Künkele



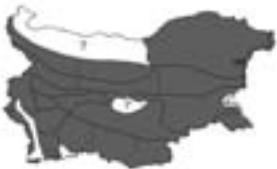
1200



900

EMed

Epipactis helleborine
(L.) Crantz



1500



0

subBoreal

Epipactis leptochila
(Godfery) Godfery



1500



700

Eur

Epipactis microphylla
(Ehrh.) Sw.



2000



0

subMed

Epipactis palustris
(L.) Crantz



1000
◻
0

subMed

Epipactis persica
(Sóo) Nannf.



1500
◻
0

EEur-Anat

Epipactis pontica
Taubenheim



1400
◻
800

SEur-Anat

Epipactis purpurata
Sm.



800
◻
0

subBoreal

Epipogium aphyllum
Sw.



1700
◻
0

Eur-As

Equisetum arvense
L.



1600
◻
0

Boreal

Equisetum fluviatile
L.



1800
◻
600

Boreal

Equisetum hyemale
L.



1900
◻
100

Boreal

Equisetum moorei
Newman



1200
◻
200

Hybr

Equisetum palustre
L.



1500
◻
0

Boreal

Equisetum ramosissimum
Desf.



Equisetum sylvaticum
L.



Equisetum telmateia
Ehrh.



Eragrostis cilianensis
(All.) Vignolo



Eragrostis minor
Host



Eragrostis pilosa
(L.) P. Beauv.



Eranthis bulgaricus
(Stef.) Stef.



Erianthus ravennae
(L.) P. Beauv.



Erianthus strictus
(Host) Bluff



Erica arborea
L.



Erigeron acer
L.

2000

♂

0

Boreal

Erigeron alpinus
L.

2500

♂

1800

Boreal

Erigeron annuum
(L.) Pers.

500

♂

0

Boreal

Erigeron atticus
Vill.

2600

♂

1100

Alp-Med

Erigeron glabratus
Hoppe & Hornsch. ex Bluff et Fingerh.

2900

♂

1800

Alp-Med

Erigeron uniflorus
L.

2900

♂

2000

!

Eur-OT

Eriolobus trilobata
M. Roem.

150

♂

150

!

Med

Eriophorum angustifolium
Roth

2700

♂

2000

Boreal

Eriophorum gracile
Koch ex Roth

2700

♂

2000

Boreal

Eriophorum latifolium
Hoppe

2700

♂

900

Boreal

Eriophorum vaginatum
L.



2700

♂

2000

Eur-As

Erodium absinthoides
Willd.



1200

♂

1200

!

Bal

Erodium ciconium
(L.) L'Hér.



1000

♂

0

subMed

Erodium cicutarium
(L.) L'Hér.



1500

♂

0

subBoreal

Erodium hoeftianum
C. A. Mey.



800

♂

0

Pont-CAs

Erophila verna
(L.) Chevall.



1500

♂

0

Eur-Med-CAs

Eruga vesicaria
(L.) Cav.



1000

♂

0

Med

Eryngium campestre
L.



900

♂

0

Pont-Med

Eryngium creticum
Lam.



200

♂

0

Med

Eryngium maritimum
L.



0

♂

0

Eur-Med

Eryngium palmatum
Pančić & Vis.



Erysimum bulgaricum
(Velen.) Ančev & Polatschek



Erysimum cheiranthoides
L.



Erysimum comatum
Pančić



Erysimum crassistylum
C. Presl



Erysimum cuspidatum
(M. Bieb.) DC.



Erysimum diffusum
Ehrh.



Erysimum drenowskyi
Degen

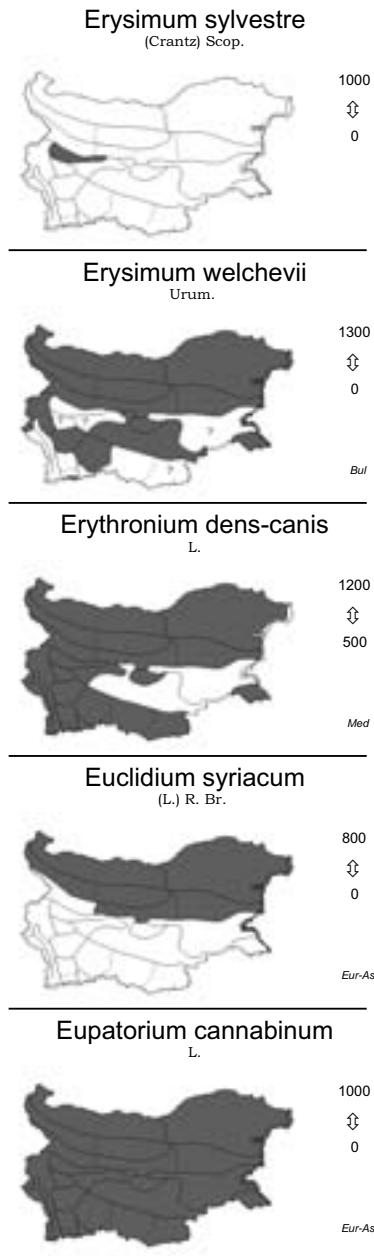
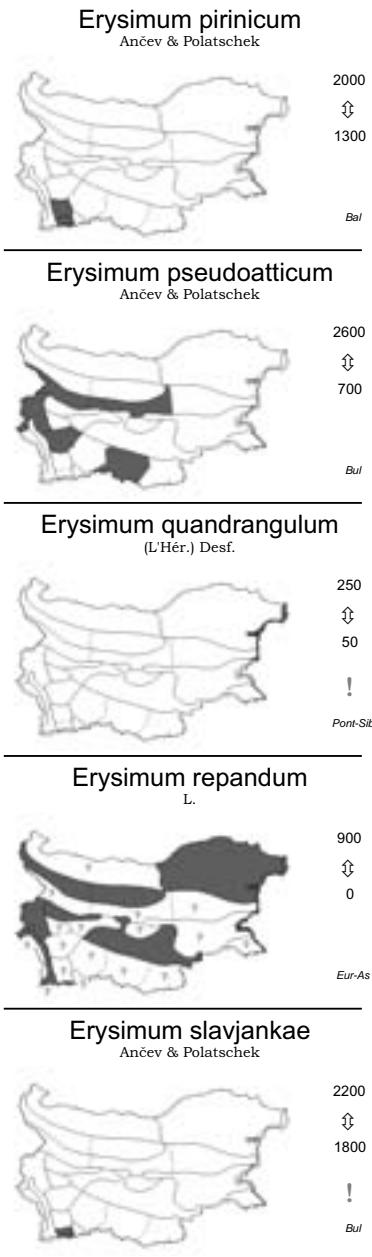


Erysimum moesiacum
Velen.



Erysimum odoratum
Ehrh.





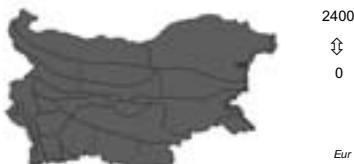
Euphorbia agraria
M. Bieb.



Euphorbia aleppica
L.



Euphorbia amygdaloides
L.



Euphorbia apios
L.



Euphorbia barrelieri
Savi



Euphorbia chamaesyce
L.



Euphorbia cyparissias
L.



Euphorbia esula
L.



Euphorbia exigua
L.



Euphorbia falcata
L.



Euphorbia helioscopia
L.1300
◻
100

Eur-As

Euphorbia nicaeensis
All.800
◻
0

Eur-Med

Euphorbia lathyris
L.500
◻
0

Jap-Ch (Adv)

Euphorbia lucida
Waldst. & Kit.150
◻
0

Eur-Sib

Euphorbia niciciana
Borbás1000
◻
0

Med

Euphorbia nutans
Lag.500
◻
0

NAm (Adv)

Euphorbia maculata
L.500
◻
0

NAm (Adv)

Euphorbia oblongata
Griseb.1000
◻
200

Med

Euphorbia myrsinites
L.2000
◻
0

subMed

Euphorbia palustris
L.800
◻
200

Eur-As

Euphorbia paralias
L.0
◻
0

Eur-Med

Euphorbia peplis
L.0
◻
0

Eur-Pont

Euphorbia peplus
L.600
◻
0

Boreal

Euphorbia plathyphyllos
L.1000
◻
0

Eur-Med

Euphorbia polychroma
A. Kern.1300
◻
200

Eur

Euphorbia salicifolia
Host1400
◻
0

subMed

Euphorbia seguierana
Neck.350
◻
0

Eur-As

Euphorbia serrulata
Thuill.1600
◻
100

sMed-As

Euphorbia taurinensis
All.1200
◻
0

subMed

Euphorbia velenovskyi
Bornm.1400
◻
100

Bal

Euphorbia villosa
Waldst. & Kit.



1000
♂
0

subMed

Euphrasia hirtella
Jord. ex Reut.



2500
♂
800

Eur-As

Euphrasia illyrica
Wettst.



2000
♂
1000

subMed

Euphrasia liburnica
Wettst.



2000
♂
500

Carp-Bal

Euphrasia minima
Jacq. ex DC.



2900
♂
2000

Alp-Carp-Bal

Euphrasia montana
Jord.



2000
♂
1000

Eur-As

Euphrasia pectinata
Ten.



2000
♂
400

subMed

Euphrasia picta
Wimm.



2000
♂
500

subMed

Euphrasia rostkoviana
Hayne



2000
♂
200

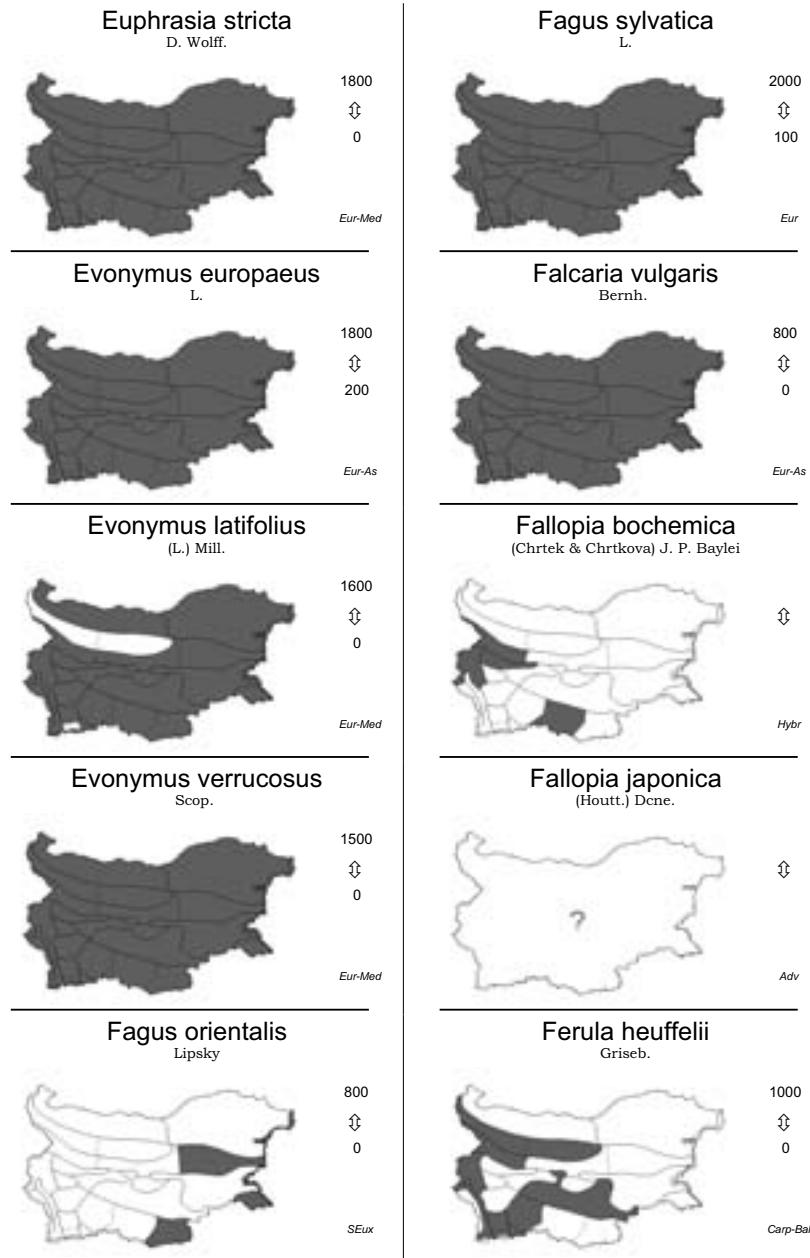
Eur-As

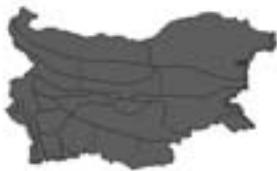
Euphrasia salisburgensis
Funck

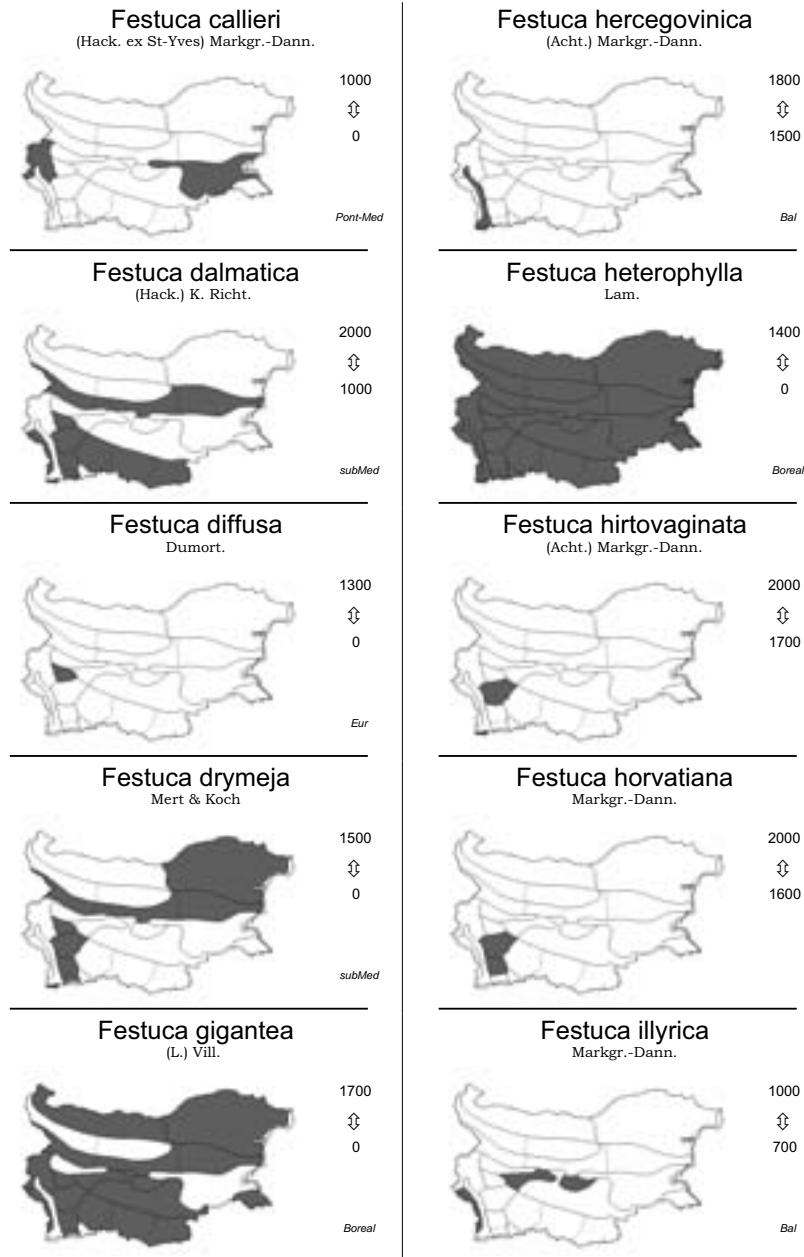


2500
♂
1000

subMed



Ferula orientalis
L.500
0
!
Pont*Ferulago campestris*
(Besser) Grecescu1200
0
Eur-Sib*Ferulago sylvatica*
(Besser) Rchb.900
0
subMed*Festuca achtarovii*
Velčev & Vassilev500
0
Bul*Festuca airoides*
Lam.1800
1400
Boreal*Festuca altissima*
All.1700
0
subBoreal*Festuca amethystina*
L.2900
2000
Pont-Med*Festuca arenicola*
(Prodán) Sóo100
0
Pont*Festuca arundinacea*
Schreb.1000
0
Pont-SAs*Festuca balcanica*
(Acht.) Markgr.-Dann.1600
0
Bul



Festuca koritnicensis
Vetter ex Hayek



2200
♂
2200

Festuca macedonica
Vetter



1500
♂
1000

Bal

Festuca maleschevica
Velčev & Vassilev



2000
♂
1000

Bul

Festuca nigrescens
Lam.



2200
♂
700

Eur

Festuca oviniformis
Vetter



600
♂
0

Festuca panciciana
(Hack.) K. Richt.



2000
♂
1500

Boreal

Festuca paniculata
(L.) Schinz & Thell.



2900
♂
1000

Alp-Carp-Bal

Festuca penzesii
(Acht.) Markgr.-Dann.



2900
♂
1000

Bal

Festuca peristerea
(Vetter) Markgr.-Dann.



2400
♂
1500

Bal

Festuca picturata
Pils.



2900
♂
2000

Festuca pirinensis
(Acht.) Acht.



2500

♂

1500

Bul

Festuca pirinica
Horv. ex Markgr.-Dann.



2900

♂

2200

! Bul

Festuca pratensis
L.



1500

♂

0

Boreal

Festuca pseudodalmatica
Krajina ex Domin



1500

♂

900

Festuca pseudovina
Hack. ex Wiesb.



200

♂

0

subMed

Festuca riloensis
(Hack. ex Hayek) Markgr.-Dann.



2900

♂

2000

Bal

Festuca rubra
L.



1200

♂

0

Boreal

Festuca rupicola
Heuff.



1200

♂

200

Pann-Bal

Festuca spectabilis
Jan.



0

♂

0

Festuca stojanovii
(Acht.) Kožuharov



1000

♂

700

Bal

Festuca thracica
(Acht.) Markgr.-Dann.



800

♂

0

Bal

Festuca trichophylla
(Duer. ex Gaudin) Richt.



1500

♂

0

Eur

Festuca vaginata
Waldst. & Kit. ex Willd.



0

♂

0

SPont

Festuca valesiaca
Schleich. ex Gaudin



800

♂

0

Pont

Festuca valida
(Uechtr.) Pénzes



2600

♂

1700

Bal

Festuca xanthina
Roem. & Schult.



2900

♂

1000

Carp-Bal

Festucopsis sancta
(Janka) Melderis



1200

♂

700

!

Bal

Festulolium loliaceum
(Hudson) P. Fourn.



1000

♂

0

Hybr

Fibigia clypeata
(L.) Medicus



750

♂

0

Med

Ficus carica
L.

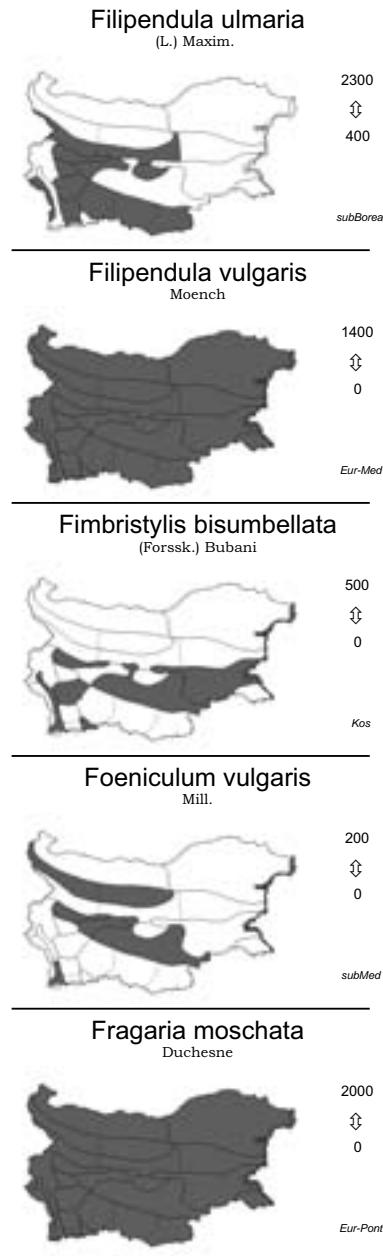
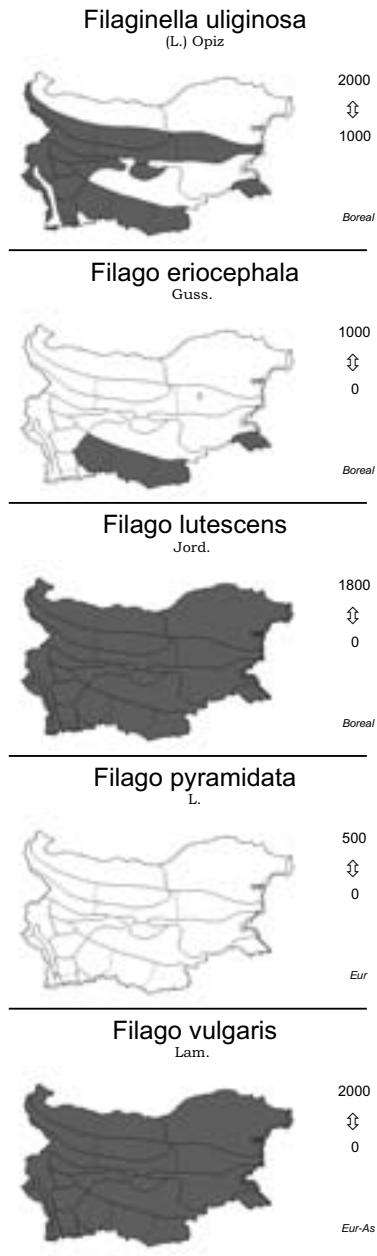


300

♂

0

Med (Adv)



Fragaria vesca
L.

2000

♂

0

subBoreal

Fragaria viridis
Duchesne

1300

♂

0

Eur-Sib

Frangula alnus
Mill.

1500

♂

0

subBoreal

Frangula rupestris
(Scop.) Schur

1500

♂

0

Med

Frankenia pulverulenta
L.

50

♂

0

! Med-Sib

Fraxinus americana
L.

500

♂

0

NAm (Adv)

Fraxinus excelsior
L.

1500

♂

0

Eur-Med

Fraxinus ornus
L.

1500

♂

0

subMed

Fraxinus oxycarpa
M. Bieb. ex Willd.

300

♂

0

Med

Fraxinus pallissiae
Wilmott

300

♂

0

Pont-Med

Fraxinus pennsylvanica
H. Marshall



Fritillaria drenovskiyi
Degen & Stoj.



Fritillaria gussichiae
(Degen & Dörf. Rix)



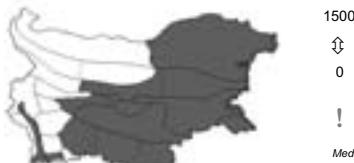
Fritillaria meleagroides
Patrin ex Schult. f.



Fritillaria orientalis
Adams



Fritillaria pontica
Wahlenb.



Fritillaria skorpilii
Velen.



Fritillaria stribryni
Velen.



Fumana arabica
(L.) Spach



Fumana procumbens
(Dunal) Gren. & Godr.



Fumaria densiflora
DC.



0

♂

0

Eur-Sib

Fumaria kralikii
Jord.



800

♂

0

subMed

Fumaria officinalis
L.



1000

♂

0

Eur-Sib

Fumaria parviflora
Lam.



500

♂

0

Eur-CAfr

Fumaria petteri
Rchb.



200

♂

0

Pont-Bal

Fumaria rostellata
Knaf



1000

♂

0

Eur-Med

Fumaria schleicheri
Soy.-Will.



800

♂

0

Eur-As

Fumaria schrammii
(Asch.) Velen.



500

♂

0

Eur-As

Fumaria thuretii
Boiss.



200

♂

0

Pont-Med

Fumaria vaillantii
Loisel.



1000

♂

0

Eur-CAfr

Gagea arvensis
(Pers.) Dumort.



1500



0

Pont-Med

Gagea minima
(L.) Ker Gawl.



2900



1000

Pont

Gagea bohemica
(Zauschn.) Schult. & Schult. f.



1000



0

Eur-Pont

Gagea peduncularis
(J. & C. Presl) Pascher



2000



300

Med

Gagea chrysanthia
(Jan.) Schult. & Schult. f.



300



0

Med

Gagea pratensis
(Pers.) Dumort.



2000



0

Eur

Gagea fistulosa
(Ramond ex DC.) Ker Gawl.



2900



1000

subMed

Gagea pusilla
(F. W. Schmidt) Schult. & Schult. f.



1000



0

Pont

Gagea lutea
(L.) Ker Gawl.



2000



0

Eur-As

Gagea reticulata
(Pall.) Schult. & Schult. f.

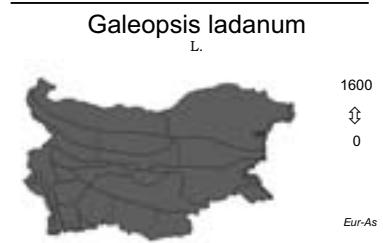
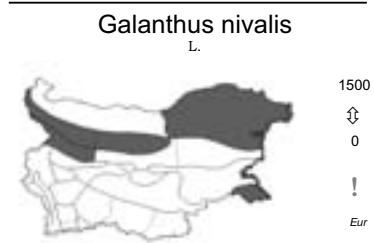
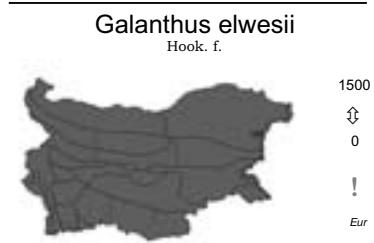
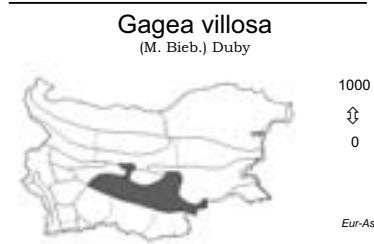
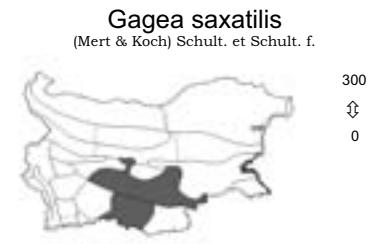


1000



0

Pont



Galeopsis tetrahit
L.2000
♂
0

Eur-As

Galilea mucronata
(L.) Parl.0
♂
0

Med

Galinsoga ciliata
(Raf.) S. F. Blake1000
♂
0

SAm (Adv)

Galinsoga parviflora
Cav.1000
♂
0

SAm (Adv)

Galium aegaeum
(Stoj. & Kitanov) Ančev2000
♂
1200

Bal

Galium album
Mill.1700
♂
0

Eur-As

Galium anisophyllum
Vill.2900
♂
1600

Alp-Carp

Galium aparine
L.1500
♂
0

Eur-As

Galium boreale
L.1700
♂
900

Boreal

Galium debile
Desv.900
♂
0

subMed

Galium demissum
Boiss.



2700

♂

2100

!

Bal-Anat

Galium divaricatum
Pourret ex Lam.



1500

♂

0

Med

Galium elongatum
C. Presl



1200

♂

0

subMed

Galium flavescens
Borbás



1200

♂

300

Bal-Dac

Galium glaucum
L.



900

♂

200

subMed

Galium heldreichii
Halácsy



1700

♂

200

Bal-Anat

Galium humifusum
M. Bieb.



500

♂

0

Eur-Med

Galium lovcense
Urum.



1700

♂

200

Bal-Anat

Galium lucidum
All.



1900

♂

250

subMed

Galium macedonicum
Krendl

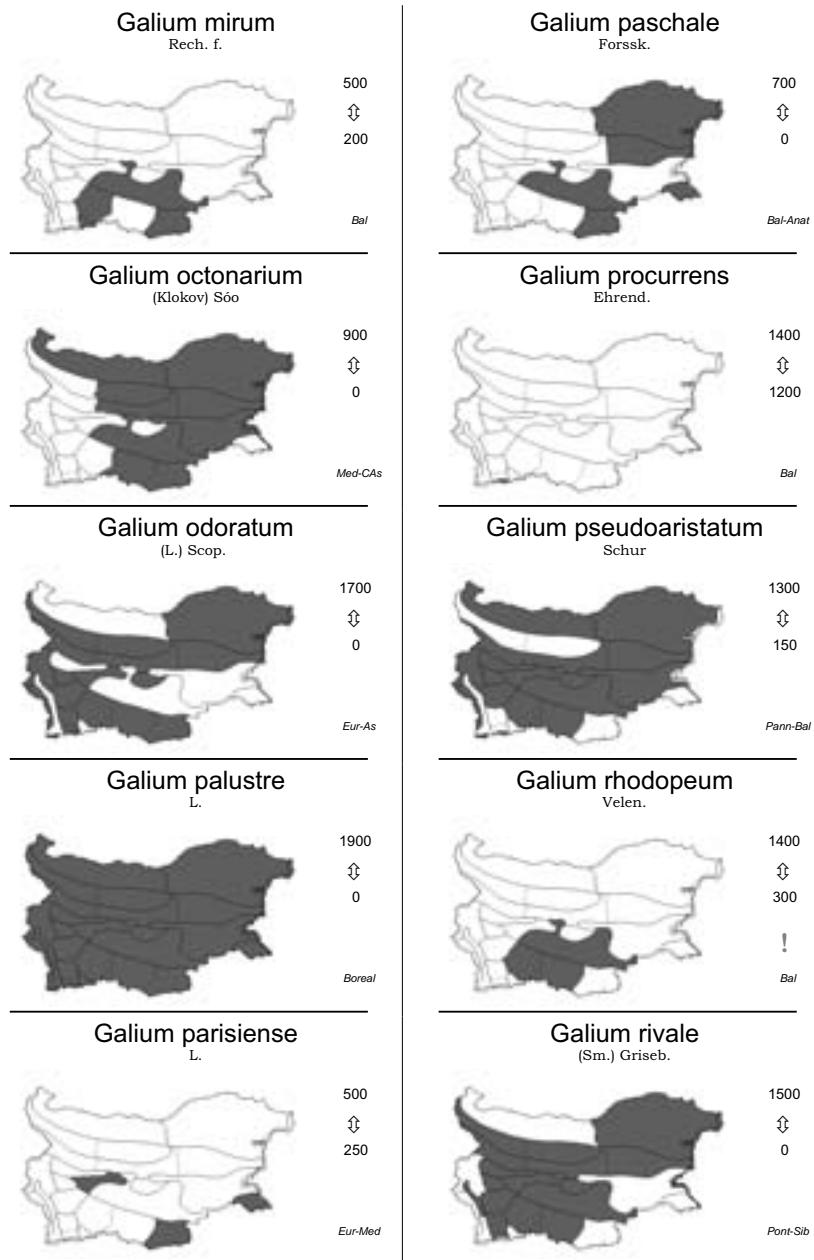


1000

♂

200

Bal



Galium rotundifolium
L.

1700

↓

600

subMed

Galium rubioides
L.

500

↓

200

!

Eur

Galium scabrifolium
(Boiss.) Hausskn.

400

↓

300

Bal-Anat

Galium schultesii
Vest

1600

↓

500

subMed

Galium spurium
L.

1000

↓

0

Eur-As

Galium tenuissimum
M. Bieb.

1000

↓

0

Pont-CAs

Galium tricornutum
Dandy

700

↓

0

Eur-As

Galium uliginosum
L.

1500

↓

500

Eur-As

Galium velenovskyi
Ančev

500

↓

250

Bul

Galium verticillatum
Danth. ex Lam.

1400

↓

0

Med-As

Galium verum
L.1700
♂
0

Eur-As

Galium volhynicum
Pobed.500
♂
0

Pont

Gastridium ventricosum
(Gouan) Schinz & Thell.300
♂
0

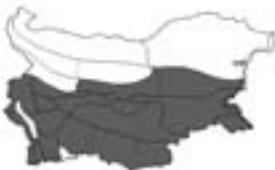
subMed

Gaudinia fragilis
(L.) P. Beauv.300
♂
0

Med

Genista anatolica
Boiss.300
♂
0

Bal-Anat

Genista carinalis
Griseb.2000
♂
500

Bal-Anat

Genista depressa
M. Bieb.2900
♂
300

subMed

Genista germanica
L.1600
♂
0

!

Eur

Genista januensis
Viv.1600
♂
0

subMed

Genista lydia
Boiss.900
♂
100

Bal-Anat

Genista ovata
Waldst. & Kit.



1500

♂
0

Eur

Genista pilosa
L.



2000

♂

500

!

Eur

Genista rumelica
Velen.



1500

♂
0

Bal

Genista sessilifolia
DC.



1000

♂
0

subMed

Genista subcapitata
Pančić



2600

♂
500

Bal

Genista tinctoria
L.



1500

♂
0

Eur-Sib

Gentiana acaulis
L.



2900

♂
1400

!

Eur

Gentiana asclepiadea
L.



2900

♂
1000

Eur

Gentiana cruciata
L.



2900

♂
200

Eur-Sib

Gentiana frigida
Haenke



2900

♂
2000

!

Alp-Bal

Gentiana lutea
L.

2900

♂

1200

!

Eur

Gentiana nivalis
L.

2900

♂

1800

Boreal

Gentiana pneumonanthe
L.

2000

♂

500

CAs

Gentiana punctata
L.

2900

♂

1500

!

Alp-Carp

Gentiana pyrenaica
L.

2900

♂

1500

Alp-Carp

Gentiana utriculosa
L.

2900

♂

900

subMed

Gentiana verna
L.

2900

♂

1500

Eur-As

Gentianella amarella
(L.) Börner

2900

♂

1800

!

Eur

Gentianella bulgarica
(Velen.) Holub

2500

♂

800

Pont

Gentianella ciliata
(L.) Borkh.

2000

♂

800

subMed

Gentianella crispata
(Vis.) Holub



2000

↓

1500

!

Med

Gentianella engadinensis
(Wettst.) Holub



2900

↓

1500

!

subMed

Gentianella germanica
(Willd.) Börner



2900

↓

1500

Eur

Gentianella lutescens
(Velen.) Holub



2900

↓

1000

subMed

Gentianella praecox
(A. & J. Kern.) Dostál



2900

↓

1500

Eur

Geranium aristatum
Freyn. & Sint.



1500

↓

1000

Bal

Geranium asphodeloides
Burm.



1000

↓

0

subMed

Geranium bohemicum
L.



1500

↓

0

!

subMed

Geranium brutium
Gasp.



1000

↓

0

Med

Geranium coeruleatum
Schur



2500

↓

1700

Carp-Bal

Geranium columbinum
L.

700

♂

0

subMed

Geranium dissectum
L.

1500

♂

0

Eur-As

Geranium divaricatum
Ehrh.

1300

♂

0

Eur-As

Geranium lucidum
L.

1500

♂

0

Eur-As

Geranium macrorrhizum
L.

2500

♂

300

Eur-Med

Geranium macrostylum
Boiss.

1500

♂

300

!

subMed

Geranium molle
L.

2000

♂

0

Eur-Med

Geranium palustre
L.

1500

♂

300

!

Eur-Med

Geranium phaeum
L.

1800

♂

100

Eur

Geranium pratense
L.

1500

♂

700

Eur-Med

Geranium purpureum
Vill.*Geranium pusillum*
L.*Geranium pyrenaicum*
Burm. f.*Geranium reflexum*
L.*Geranium robertianum*
L.*Geranium rotundifolium*
L.*Geranium sanguineum*
L.*Geranium sylvaticum*
L.*Geranium tuberosum*
L.*Geum bulgaricum*
Pančić

Geum coccineum
Sm.

2300

↓

900

subMed

Geum molle
Vis. & Pančić

1800

↓

1000

Ap-Bal

Geum montanum
L.

2700

↓

1600

Alp-Carp-Bal

Geum reptans
L.

2900

↓

2300

Alp-Carp-Bal

Geum rhodopaeum
Stoj. & Stef.

1500

↓

1200

Bal

Geum rivale
L.

2100

↓

1200

subBoreal

Geum urbanum
L.

1500

↓

200

subBoreal

Gladiolus communis
L.

1500

↓

0

Med

Gladiolus illyricus
Koch

1500

↓

0

Med-OT

Gladiolus imbricatus
L.

2900

↓

1000

Eur-sMed

Gladiolus italicus
Mill.



Gladiolus palustris
Gaudin



Glaucium corniculatum
(L.) Rudolph



Glaucium flavum
Crantz



Glaucium leiocarpum
Boiss.



Glechoma hederacea
L.



Glechoma hirsuta
Waldst. & Kit.



Gleditsia triacanthos
L.



Glinus lotoides
L.



Globularia aphyllanthes
Crantz



Globularia cordifolia
L.*Globularia meridionalis*
(Podp.) Schwarz*Globularia trichosantha*
Fisch. & C. A. Mey.*Glyceria arundinacea*
Kunth*Glyceria fluitans*
(L.) R. Br.*Glyceria maxima*
(Hartm.) Holmb.*Glyceria nemoralis*
(Üechtr.) Uechtr. & Körn.*Glyceria plicata*
(Fr.) Fr.*Glycyrhiza echinata*
L.*Glycyrrhiza glabra*
L.

Gnaphalium luteo-album
L.**Goniolimon besseranum**
(Schult. ex Rchb.) Kusn.**Goniolimon collinum**
(Griseb.) Boiss.**Goniolimon dalmaticum**
(C. Presl) Rchb. f.**Goniolimon tataricum**
(L.) Boiss.**Goodyera repens**
(L.) R. Br.**Gratiola officinalis**
L.**Groenlandia densa**
(L.) Fourr.**Gymnadenia conopsea**
(L.) R. Br.**Gymnadenia densiflora**
(Wahlenb.) A. Dietr.

Gymnadenia frivaldii
Hampe ex Griseb.



2400

↓

1200

Carp-Bal

Gymnocarpium dryopteris
(L.) Newman



2500

↓

600

Boreal

Gymnocarpium robertianum
(Hoffm.) Newman



2300

↓

0

subBoreal

Gypsophila glomerata
Pall. ex M. Bieb.



1000

↓

0

subMed

Gypsophila muralis
L.



1500

↓

0

Eur-As

Gypsophila paniculata
L.



500

↓

0

Eur-As

Gypsophila petraea
(Baumg.) Rchb.



2900

↓

1800

Carp

Gypsophila tekirae
Stef.



400

↓

0

!

Bul

Gypsophila trichotoma
Wend.



0

↓

0

!

Eur-As

Haberlea rhodopensis
Friv.



2000

↓

800

!

Hainardia cylindrica
(Willd.) Greuter



100
↓↓
0

Med

Halimione pedunculata
(L.) Aellen



0
↓↓
0

Eur-As

Halimione portulacoides
(L.) Aellen



0
↓↓
0

Eur-As

Hammarbya paludosa
(L.) Kunze



1400
↓↓
0

Eur-As

Haplophyllum balcanicum
Vandas



2900
↓↓
1000

Bal

Haplophyllum suaveolens
(DC.) G. Don



1200
↓↓
0

Med

Haplophyllum thesioides
(Fisch.ex DC.) G. Don



400
↓↓
0

Med

Hedera helix
L.



1800
↓↓
0

Eur-As

Hedypnois cretica
(L.) Dum. Cours.



1000
↓↓
0

Med

Hedysarum grandiflorum
Pall.



300
↓↓
0

Pont-Med

Hedysarum tauricum

Pall. ex Willd.



400

♂

0

!

Pont

Helianthemum aegyptiacum

(L.) Mill.



200

♂

100

Med

Helianthemum lasiocarpum

Desf. ex Willk.



1000

♂

50

Med

Helianthemum nummularium

(L.) Mill.



2600

♂

0

Alp-Med

Helianthemum salicifolium

(L.) Mill.



1000

♂

0

subMed

Helianthus tuberosus

L.



1000

♂

0

Adv

Helichrysum arenarium

(L.) Moench



500

♂

0

Eur-Sib

Helichrysum plicatum

DC.



1400

♂

0

!

Bal-Anat

Heliotropium dolosum

De Not.



0

♂

0

subMed

Heliotropium europaeum

L.



1000

♂

0

subMed

Heliotropium suaveolens
M. Bieb.



Heliotropium supinum
L.



Helleborus cyclophyllus
(A. Braun) Boiss.



Helleborus odorus
Waldst. & Kit.



Hepatica nobilis
Mill.



Heptaptera triquetra
(Vent.) Tutin



Heracleum angustisectum
(Stoj. & Acht.) Peev



Heracleum sibiricum
L.



Heracleum ternatum
Velen.



Heracleum verticillatum
Pančić



Herminium monorchis
(L.) R. Br.



1400

♂

800

!

Eur-As

Herniaria glabra
L.



1500

♂

0

Eur-As

Herniaria hirsuta
L.



1200

♂

0

Eur-As

Herniaria incana
Lam.



1000

♂

0

Eur-Med

Herniaria nigrimontium
Herm.



2200

♂

700

Bal

Herniaria olympica
J. Gay



1700

♂

1700

Bal

Herniaria parnassica
Heldr. & Sart. ex Boiss.



2900

♂

1000

Bal

Hesperis dinarica
Beck



2500

♂

1500

Bal

Hesperis laciniata
All.



1300

♂

0

subMed

Hesperis matronalis
L.

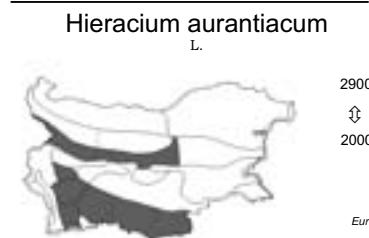
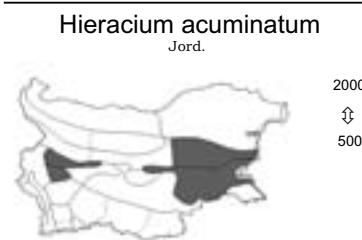
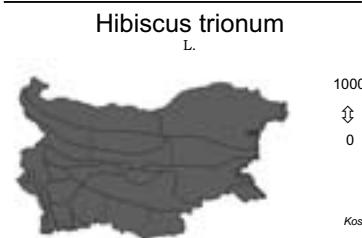
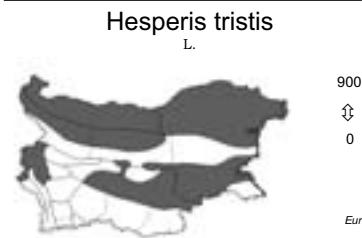
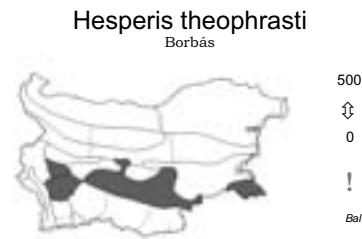


1000

♂

0

Med



Hieracium belogradcense

T. Georg. & Kitanov



2000



800

Bul

Hieracium biflorum

Arv. - Touv.



2900



2000

Alp-Bal

Hieracium brachiatum

Bertol. ex Lam.



1800



0

Med

Hieracium caespitosum

Dumort.



2900



1000

Eur-Sib

Hieracium cymosum

L.



1800



0

Eur-Sib

Hieracium densiflorum

Tausch



1000



0

Hieracium divergens

Naeg. & Peter



2500



1000

Bul

Hieracium djimilense

Boiss. & Balansa



2700



1800

Carp-Bal-Anat

Hieracium dolopicum

Freyen & Sint.



2900



1500

Bal

Hieracium echiooides

Lumn.



2900



1000

subMed

Hieracium erythrocarpum
Peter



Hieracium ferdinandii-regis
Zahn



Hieracium florentinoides
Arvet - Tow.



Hieracium gentile
Jord. ex Boreau



Hieracium gregorii-bakurianii
S. Bräut.



Hieracium grizebachii
A. Kern.



Hieracium halimifolium
Froel ex Fr.



Hieracium heldreichii
Boiss.



Hieracium heterogynum
(Froel.) Gut.



Hieracium hoppeanum
Schult.



Hieracium jankae
Uechtr.



Hieracium kittianiae
Vladimir.



Hieracium laevigatum
Willd.



Hieracium latifolium
Froelich ex Link



Hieracium laurinum
Arvet - Tow.



Hieracium leithneri
(Heldr. & Sart. ex Boiss.) Zahn



Hieracium maculatum
Sm.



Hieracium marmoreum
Pančić



Hieracium marotii
T. Georg. & Zahn



Hieracium mattfeldianum
Zahn



Hieracium medshedense
Zahn*Hieracium merxmulleranum*
S. Bräut.*Hieracium muricellum*
Griseb.*Hieracium naegelianum*
Pančić*Hieracium nipholasum*
T. Georg. & Zahn*Hieracium olympicum*
Boiss.*Hieracium ossaeum*
Zahn*Hieracium oxyodon*
Fr.*Hieracium pannosum*
Boiss.*Hieracium pavichii*
Heuff.

Hieracium petrovae
Vladimir. & Szelag



♂

Bul

Hieracium pilosella
L.



2000

♂

0

Hieracium piloselloides
Vill.



2600

♂

0

Hieracium pilosissimum
Friv.



2000

♂

0

Hieracium pirinicola
T. Georg. & Zahn



2000

♂

0

Hieracium praealtum
Vill. ex Goch.



♂

0

Hieracium praecox
Sch.Bip.



2000

♂

1800

Hieracium praecurrents
Vuk.



2000

♂

1000

Hieracium pseuderiopus
Zahn



2200

♂

1500

Hieracium pseudopilosella
Ten.



2900

♂

2000

Hieracium racemosum

Waldst. & Kit.



1800



1000

Eur-Med

Hieracium retyezatense

Degen & Zahn



2000



1000

Alp-Carp-Bal

Hieracium ruprechtii

Boiss.



2900



1000

Ap-Bal

Hieracium sabaudum

L.



2000



1500

Eur-Med

Hieracium sartorianum

Boiss.



2000



1900

Hieracium scardicum

Bornm. & Zahn



2500



1000

Bal

Hieracium schmidtii

Tausch



2500



2000

Eur-Med

Hieracium semisylvaticum

(Zahn) P. D. Sell



2000



1000

Hieracium sericophyllum

Nejceff



2900



1500

Bal

Hieracium sparsum

Friv.



2800

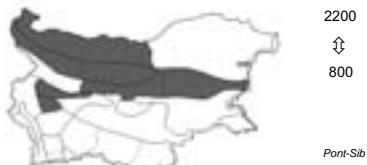


2000

subMed

Hieracium stefanoffii
Zahn*Hieracium tephrocephalum*
Vuk.*Hieracium tommassini*
Rchb.*Hieracium transylvanicum*
Heuff.*Hieracium trebevicianum*
K. Maly*Hieracium tschamkorijense*
Zahn*Hieracium umbellatum*
L.*Hieracium urumoffii*
Nejceff & Zahn*Hieracium vandasii*
Frein.*Hieracium villosum*
L.

Hieracium virosum
Pall.



Pont-Sib

Hieracium wolffii
Zahn

0
0

Hieracium zizianum
Tausch

0
0

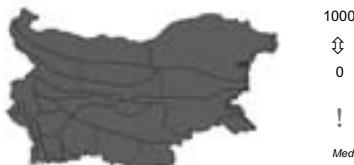
Hierochloe australis
(Schrad.) Roem. & Schult.

500
0

Hierochloe repens
(Host) Simonk.

700
0

Himantoglossum caprinum
(M. Bieb.) Spreng.

1000
0
!

Med

Hippocrepis ciliata
Willd.

600
0

subMed

Hippocrepis comosa
L.

2200
0

subMed

Hippocrepis unisiliquosa
L.

300
300
!

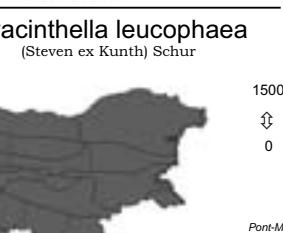
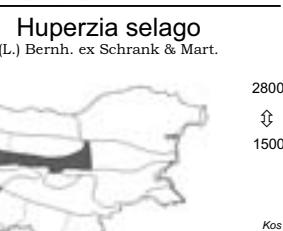
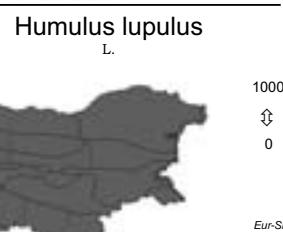
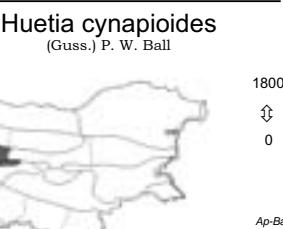
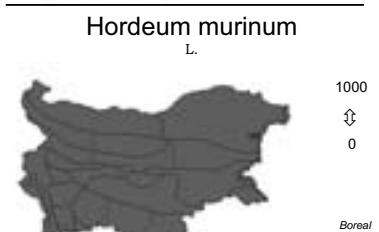
Med

Hippomarathrum cristatum
(DC.) Boiss.

300
0

Med

Hippophae rhamnoides
L.*Hippuris vulgaris*
L.*Holcus lanatus*
L.*Holcus mollis*
L.*Holoschoenus vulgaris*
Link*Holosteum umbellatum*
L.*Homogyne alpina*
(L.) Cass.*Hordelymus europaeus*
(L.) Harz*Hordeum bulbosum*
L.*Hordeum hystrix*
Roth



Hydrocharis morsus-ranae

L.



1200



0

Eur-As

Hymenocarpus circinatus

(L.) Savi



100



0

Med

Hymenolobus procumbens

(L.) Nutt.



500



0

sMed-CAs

Hyoscyamus albus

L.



700



0

subMed

Hyoscyamus niger

L.



1000



0

Eur-As

Hypecoum imberbe

Sm.



1000



0

subMed

Hypecoum pendulum

L.



700



0

subMed

Hypecoum ponticum

Velen.



800



0

Bal

Hypecoum procumbens

L.



600



0

Med

Hypericum androsaemum

L.



100



0

!

Eur-OT

Hypericum annulatum
Moris



1800

♂
0

Med

Hypericum aucheri
Jaub. & Spach



800

♂
0

subMed

Hypericum barbatum
Jacq.



1200

♂
0

subMed

Hypericum boissieri
Petrović



400

♂
0

Bal

Hypericum calycinum
L.

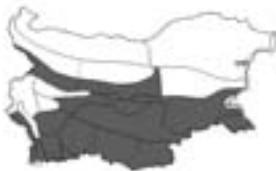


100

♂
0

Pont-Med

Hypericum cerastoides
(Spach) N. Robson



1700

♂
0

subMed

Hypericum elegans
Stephan ex Willd.



800

♂
0

Eur-Sib

Hypericum hirsutum
L.



1000

♂
0

Eur-Sib

Hypericum hyssopifolium
Chaix



700

♂
0

subMed

Hypericum linarioides
Bosse



2500

♂
1400

Pont-Med

Hypericum maculatum

Crantz



2000

♂

0

Boreal

Hypericum montbretii

Spach



1800

♂

0

subMed

Hypericum olympicum

L.



1500

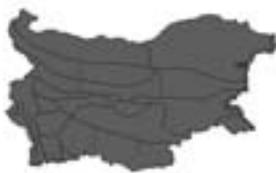
♂

300

subMed

Hypericum perforatum

L.



2000

♂

0

Kos

Hypericum richeri

Vill.



1000

♂

0

subMed

Hypericum rochelii

Griseb. & Schenk



1000

♂

0

Bal-Dac

Hypericum rumeliacum

Boiss.



1000

♂

0

Bal

Hypericum setiferum

Stef.



900

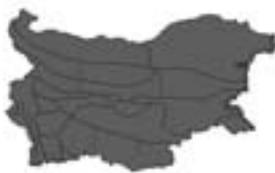
♂

0

Bul

Hypericum tetrapterum

Fr.



1000

♂

0

Eur-Sib

Hypericum thasium

Griseb.



1000

♂

0

Bal

Hypericum umbellatum

A. Kern.



1000

♂

0

Bal

Hypochaeris cretensis

(L.) Bory & Chaub.



1000

♂

0

Med

Hypochaeris glabra

L.



1000

♂

0

Eur-Med

Hypochaeris maculata

L.



2500

♂

1500

Eur-Sib

Hypochaeris radicata

L.



2000

♂

500

Eur-Med

Hyssopus officinalis

L.



1000

♂

500

Eur-As

Iberis saxatilis

L.



2500

♂

1400

Med

Iberis sempervirens

L.



2300

♂

1500

Bal-Anat

Ilex aquifolium

L.



1200

♂

400

subMed

Ilex colchica

Poj.



400

♂

200

Pont

Impatiens glandulifera
Royte

1400

♂
0

Adv

Impatiens noli-tangere
L.

1600

♂
400

Eur-As

Impatiens parviflora
DC.

1500

♂
1000

Eur-As (Adv)

Imperata cylindrica
(L.) Raeusch.

300

♂
0

Med-CAs

Inula aschersoniana
Janka

1000

♂
0

Bal

Inula bifrons
(L.) L.

1000

♂
0

Eur-Med

Inula britannica
L.

2900

♂
1000

Eur-Med

Inula conyzoides
L.

1000

♂
0

Eur-Med

Inula ensifolia
L.

2000

♂
1000

Eur-Med

Inula germanica
L.

2000

♂
0

subMed

Inula helenium
L.1000
♂
0

Eur-Med

Inula hirta
L.1000
♂
0

Eur-Sib

Inula oculus-christi
L.1000
♂
0

Eur-Med

Inula salicina
L.1000
♂
0

Eur-As

Inula spiraeifolia
L.500
♂
0

Med

Inula thapsoides
(M. Bieb. ex Willd.) Spreng.1000
♂
0

Pont-OT

Iris aphylla
L.700
♂
0

!

Pont-Atat

Iris graminea
L.1000
♂
0

Pont-Med

Iris pseudacorus
L.1000
♂
0

Eur

Iris pumila
L.1000
♂
0

subMed

Iris reichenbachii
Heuff.



2200
♂
0

Bal-Dac

Iris sibirica
L.



1300
♂
0

Pont-Sib

Iris sintenisii
Janka



1000
♂
0

Med

Iris suaveolens
Boiss. & Reut.



1000
♂
0

bal

Iris variegata
L.



2900
♂
0

subMed

Isatis praecox
Kit. ex Tratt.



700
♂
0

subMed

Isatis tinctoria
L.



300
♂
0

Eur-As

Isoetes lacustris
L.



2700
♂
1900

Boreal

Isolepis setacea
(L.) R. Br.



1000
♂
0

Kos

Isolepis supina
(L.) R. Br.



100
♂
0

Boreal

Isopyrum thalictroides
L.

1200

◻
0

Eur

Iva xanthifolia
Nutt.

500

◻
0

NAm (Adv)

Jasione bulgarica
Stoj. & Stef.

2700

◻
1900

Bul

Jasione heldreichii
Boiss. & Orph.

1500

◻
0

Eur-Med

Jasione laevis
Lam.

2800

◻
1900

Bal-Anat

Jasione montana
L.

◻

Jasminum fruticans
L.

1000

◻
0

Pont-CAs

Jovibarba heuffelii
(Schott) A. & D. Löve

2200

◻
600

Carp-Bal

Juglans regia
L.

1000

◻
0

Eur-As/Paleo

Juncus acutiflorus
Ehrh. ex Hoffm.

300

◻
0

Eur

Juncus alpinus
Vill.

2900



2000

Eur-NAm

Juncus articulatus
L.

2900



0

Boreal

Juncus atratus
Krock.

1500



0

subMed

Juncus bufonius
L.

2000



0

subBoreal

Juncus capitatus
Weigel

1000



0

subMed

Juncus compressus
Jacq.

1000



0

Eur-As

Juncus conglomeratus
L.

1800



0

Eur

Juncus effusus
L.

1600



0

subBoreal

Juncus filiformis
L.

2900



1800

Kos

Juncus gerardii
Loisel.

700



0

Boreal

Juncus inflexus
L.

1500

♂

0

subBoreal

Juncus littoralis
C. A. Mey.

300

♂

0

OT

Juncus maritimus
Lam.

200

♂

0

Kos

Juncus ranarius
Song. & Perr. ex Bill.

500

♂

0

Eur

Juncus subnodulosus
Schrank

1000

♂

0

subMed

Juncus tenageia
L. f..

1000

♂

0

Eur-Sib

Juncus tenuis
Willd.

1500

♂

0

NAm (Adv)

Juncus tomassii
Ten.

2500

♂

400

Carp-Bal

Juncus trifidus
L.

2900

♂

1800

Boreal

Juncus triglumis
L.

2500

♂

2000

Arct-Alp

Juniperus communis
L.*Juniperus excelsa*
M. Bieb.*Juniperus oxycedrus*
L.*Juniperus pygmaea*
C. Koch*Juniperus sabina*
L.*Juniperus sibirica*
Burgsd.*Jurinea albicaulis*
Bunge*Jurinea bulgarica*
Velen.*Jurinea consanguinea*
DC.*Jurinea glicacantha*
(Sm.) DC.

Jurinea ledebourii
Bunge



Jurinea mollis
(L.) Rchb.



Jurinea stoechadifolia
(M. Bieb.) DC.



Jurinea tzar-ferdinandii
Davidov



Kernera saxatilis
(L.) Rchb.



Kickxia commutata
(Bernh. ex Rchb.) Fritsch



Kickxia elatine
(L.) Dumort.



Kickxia spuria
(L.) Dumort.



Knautia ambigua
(Friv.) Boiss. & Orph.



Knautia arvensis
(L.) Coult.



Knautia byzantina

Fritsch



500

♂

0

Bal

Knautia degenii

Borbás ex Formánek



500

♂

0

Bal

Knautia dinarica

(Murb.) Borbás



2900

♂

2500

Bal

Knautia drymeia

Heuff.



2000

♂

0

Alp-Carp-Bal

Knautia integrifolia

(L.) Bertol.



1000

♂

0

Med

Knautia macedonica

Griseb.



1000

♂

0

Bal

Knautia midzorensis

Formánek



2900

♂

1500

Bal

Knautia orientalis

L.



1000

♂

0

Med

Kobresia myosuroides

(Vill.) Fiori



2700

♂

2100

!

Arp-Alp

Kochia laniflora

(S. G. Gmel.) Borbás



350

♂

0

Pont-Sib

Kochia prostrata
(L.) Schrad.



300
100
0

Eur-As

Kochia scoparia
(L.) Schrad.



1000
100
0

Adv.

Koeleria brevis
Steven



300
100
0

Pont-Med

Koeleria davidovii
(Acht.) Kožuharov



100
100
0

Bul

Koeleria eriostachya
Pančić



2300
1500
0

Alp-Bal

Koeleria fenziana
Schur



2400
100
300

Eur

Koeleria macrantha
(Ledeb.) Schult.



1500
100
0

Koeleria mitruschii
Ujhelyi



1800
100
0

Koeleria nitidula
Velen.



900
100
0

Pont

Koeleria obscura
(Velen.) Kožuharov



600
100
0

Pont-Med

Koeleria penzesii
Ujhelyi



1400
♂
0

Koeleria pyramidata
(Lam.) P. Beauv.



2200
♂
1800
subMed

Koeleria schurii
Ujhelyi



1000
♂
0

Koeleria simonkaii
Adamović



1300
♂
0
Bal

Lactuca aurea
(Sch.Bip. ex Pančić) Stebbins



1000
♂
200
Bal-Dac

Lactuca perennis
L.



1000
♂
0
Eur

Lactuca quercina
L.



2900
♂
0
Eur

Lactuca saligna
L.



1000
♂
0
Pont-OT

Lactuca serriola
L.



1000
♂
0
Eur-As

Lactuca tatarica
(L.) C. A. Mey.



200
♂
0
Pont-As

Lactuca viminea
(L.) J. & C. Presl



1000
♂
0

Eur-Med

Lagoecia cuminoides
L.



500
♂
0

Med-OT

Lagurus ovatus
L.



100
♂
0

Pont-Med

Lamium album
L.



800
♂
500

Eur-Sib

Lamium amplexicaule
L.



1000
♂
0

Eur-As

Lamium bifidum
Cyr.



1000
♂
200

Med

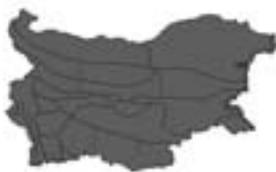
Lamium galeobdolon
(L.) L.



1500
♂
0

Med

Lamium garganicum
L.



2900
♂
700

Med

Lamium maculatum
L.



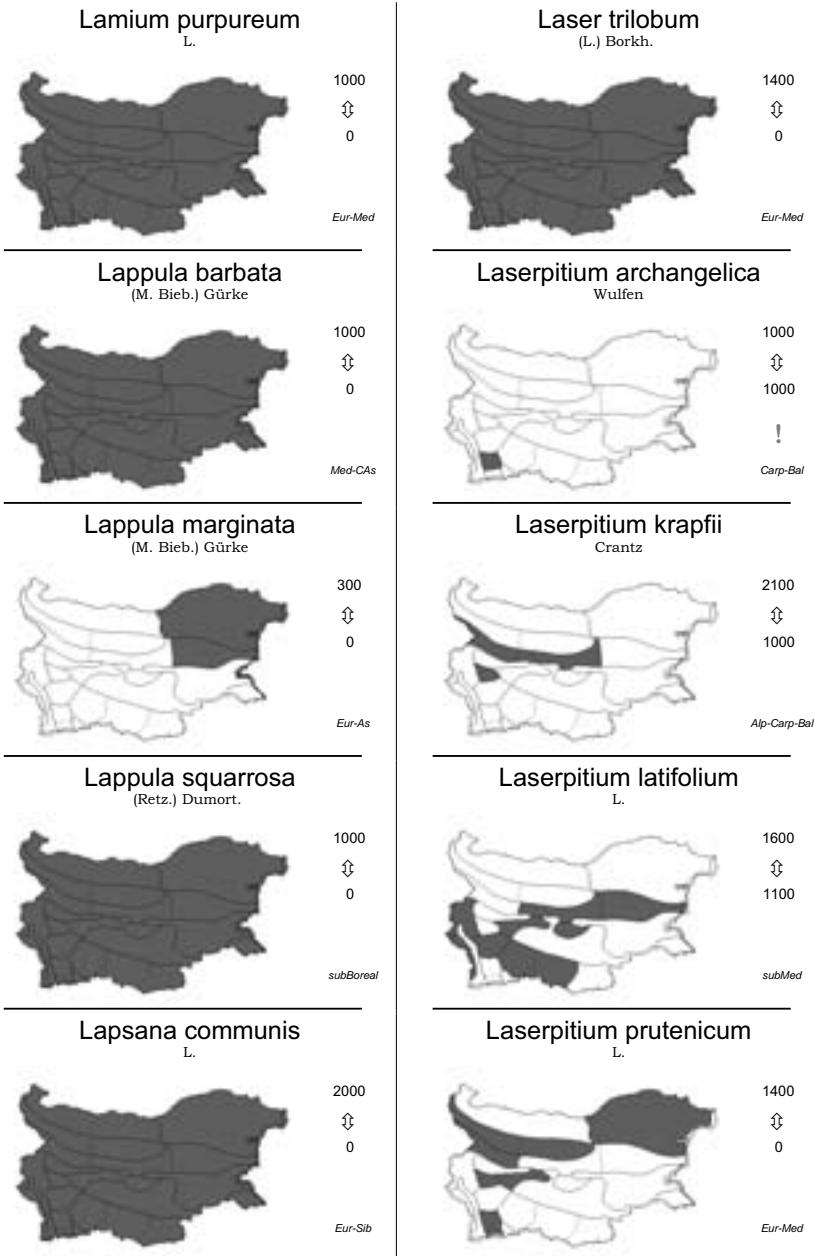
2000
♂
0

subBoreal

Lamium moschatum
Mill.



♂



Laserpitium siler
L.*Lathraea rhodopea*
Dingl.*Lathraea squamaria*
L.*Lathyrus alpestris*
(Waldst. & Kit.) Kit. ex Čelak.*Lathyrus annuus*
L.*Lathyrus aphaca*
L.*Lathyrus aureus*
(Steven) Brändzä*Lathyrus cicera*
L.*Lathyrus digitatus*
(M. Bieb.) Fiori*Lathyrus filiformis*
(Lam.) Gay

Lathyrus grandiflorus
Sm.



1300
◻
100

Med-Anat

Lathyrus hallersteinii
Baumg.



1000
◻
0

SEur

Lathyrus hirsutus
L.



800
◻
0

Eur-Med

Lathyrus inconspicuus
L.



500
◻
0

Med-Cas

Lathyrus latifolius
L.



900
◻
0

Eur-Med

Lathyrus laxiflorus
(Desf.) Kuntze



1900
◻
0

subMed

Lathyrus linifolius
(Rchb.) Bässler



1800
◻
1500

!

Eur

Lathyrus niger
(L.) Bernh.



1200
◻
0

Eur-Med

Lathyrus nissolia
L.



1000
◻
0

Eur-sMed

Lathyrus pallescens
(M. Bieb.) C. Koch



1000
◻
0

subMed

Lathyrus palustris
L.

1100

♂

0

!

Eur-As

Lathyrus pannicifii
(Jurisić) Adamović

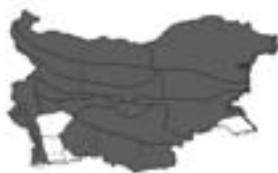
700

♂

0

!

Bal

Lathyrus pannonicus
(Jacq.) Garcke

800

♂

0

sMed-Sib

Lathyrus pratensis
L.

1500

♂

0

subBoreal

Lathyrus sativus
L.

800

♂

0

subMed

Lathyrus saxatilis
(Vent.) Vis.

200

♂

0

!

Med

Lathyrus setifolius
L.

800

♂

0

Pont-Med

Lathyrus sphaericus
Retz.

1000

♂

0

Eur-As

Lathyrus sylvestris
L.

800

♂

0

Eur-sMed

Lathyrus transsilvanicus
(Spreng.) Fritsch

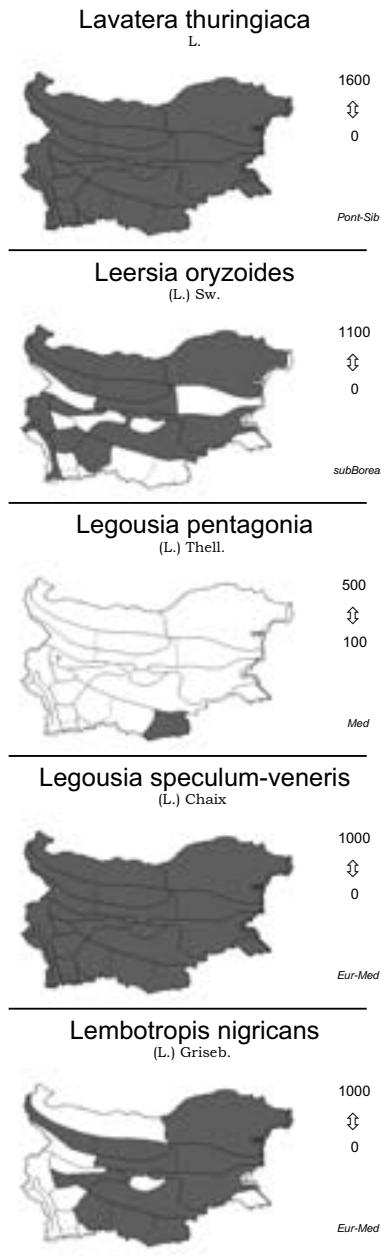
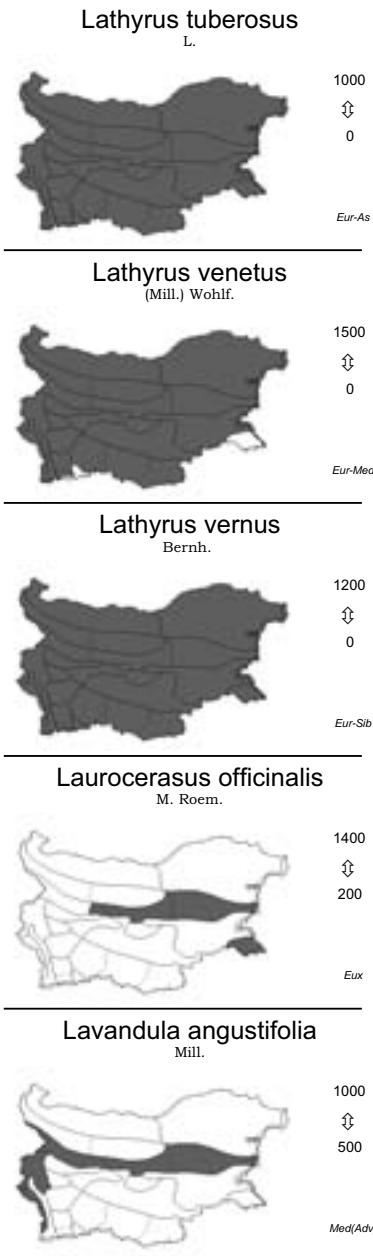
1600

♂

0

!

Carp-Bal



Lemna gibba

L.



300

♂

0

Kos

Lemna minor

L.



1000

♂

0

Kos

Lemna trisulca

L.



1000

♂

0

Kos

Lens ervoides

(Brign.) Grande



300

♂

0

Med

Lens nigricans

(M. Bieb.) Godr.



1000

♂

100

Pont-Med

Leontice leontopetalum

L.



300

♂

0

Med

Leontodon autumnalis

L.



2800

♂

1000

Eur-Sib

Leontodon cichoraceus

(Ten.) Sanguin.



500

♂

0

subMed

Leontodon crispus

Vill.



2800

♂

0

Pont-Med

Leontodon hispidus

L.

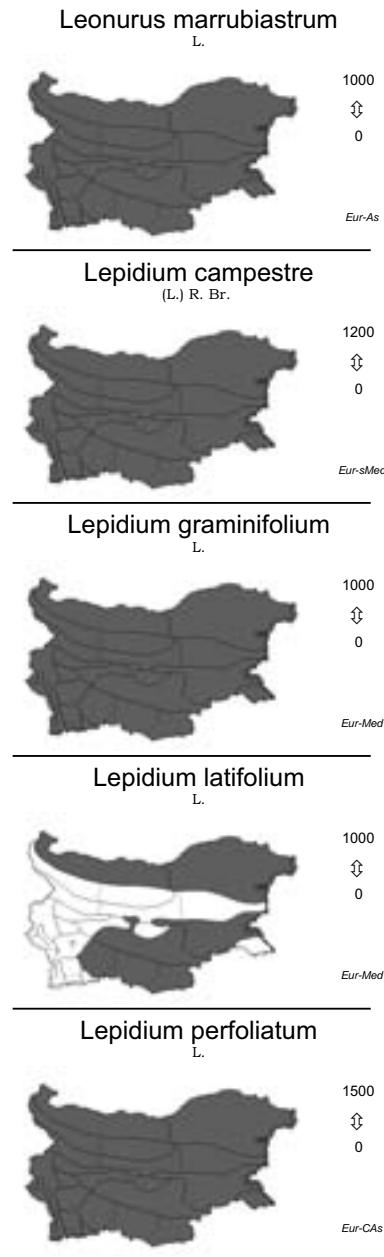
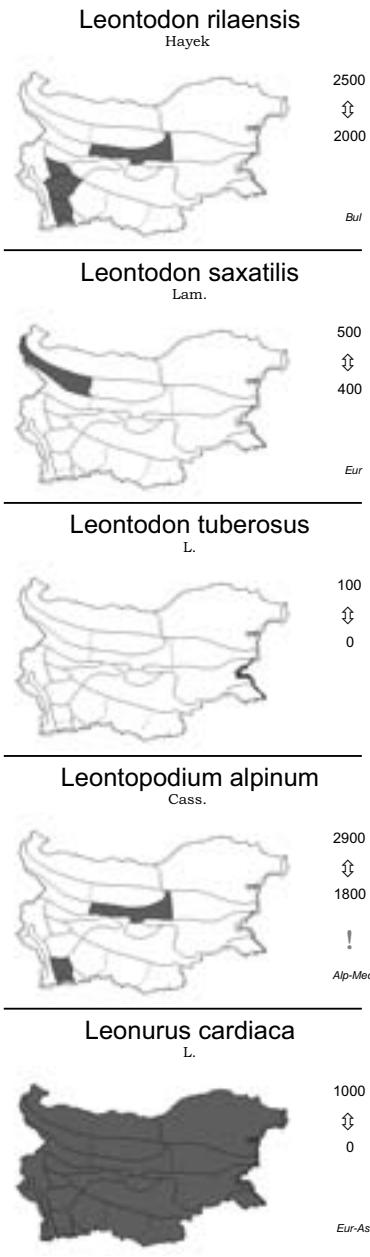


2000

♂

0

Eur-Med



Lepidium ruderale
L.

1500

♂

0

Eur-As

Lepidium sativum
L.

1400

♂

0

Eur

Lepidium spinosum
Ard.

200

♂

0

EMed-Anat

Lerchenfeldia flexuosa
(L.) Schur

2500

♂

800

Boreal

Leucanthemella serotina
(L.) Tzvelev

200

♂

0

Eur

Leucanthemum pallens
(Gay) DC.

500

♂

0

Leucanthemum vulgare
Lam.

2000

♂

0

Eur-Sib

Leucojum aestivum
L.

300

♂

0

Eur

Leymus racemosus
(Lam.) Tzvelev

0

♂

0

Pont-Sib

Ligularia glauca
(L.) Hoffm.

2000

♂

1600

Carp-Bal-Alp

Ligularia sibirica
(L.) Cass.



1000

♂

0

!

Eur-Sib

Ligusticum mutellina
(L.) Crantz



2900

♂

1800

Alp-Carp-Bal

Ligustrum vulgare
L.



1500

♂

0

subMed

Lilium albanicum
Griseb.



1500

♂

1500

!

Bal

Lilium jankae
A. Kern.



2900

♂

1500

!

Bal

Lilium martagon
L.



2000

♂

0

Eur-As

Lilium rhodopaeum
Delip.



2900

♂

1000

!

Bal

Limodorum abortivum
(L.) Schwarz



900

♂

0

!

Med

Limonium asterotrichum
(Salmon) Salmon



450

♂

450

!

Bul

Limonium bulgaricum
Ančev



250

♂

200

!

Bul

Limonium gmelinii
(Willd.) Kuntze



150

♂

0

!

Eur-As

Limonium latifolium
(Sm.) Kuntze



250

♂

0

!

Pont

Limonium meyeri
(Boiss.) Kuntze



150

♂

0

!

Pont-CAs

Limonium vulgare
Mill.



250

♂

0

!

Eur

Limosella aquatica
L.



1000

♂

0

Kos

Linaria angustissima
(Loisel.) Borbás



♂

subMed

Linaria arvensis
(L.) Desf.



2500

♂

2500

subMed

Linaria brachyphylla
Delip.



1700

♂

1500

!

Bul

Linaria chalepensis
(L.) Mill.



700

♂

150

Med

Linaria dalmatica
(L.) Mill.



1800

♂

0

Med

Linaria genistifolia
(L.) Mill.



1800
♂
0

Pont-Sib

Linaria grandiflora
Desf.



1800
♂
600

Bal-Anat

Linaria pelisseriana
(L.) Mill.



1000
♂
0

Med

Linaria peloponesiaca
Boiss. & Heldr.



850
♂
500
!

Bal

Linaria simplex
(Willd.) DC.



800
♂
100

Med

Linaria vulgaris
Mill.



1800
♂
0

Eur-Sib

Lindernia dubia
(L.) Pennell



500
♂
0

NAm (Adv)

Lindernia procumbens
(Krock.) Philcox



1000
♂
0

!

Eur-As

Linum alpinum
Jacq.



2900
♂
1400

Alp-Med

Linum austriacum
L.



1000
♂
0

subMed

Linum bienne
Mill.

700

♂

0

Med

Linum capitatum
Kit. ex Schult.

2200

♂

1000

Ap-Bul

Linum catharticum
L.

2600

♂

200

subBoreal

Linum corymbulosum
Rchb.

800

♂

0

Med

Linum elegans
Spruner ex Boiss.

2000

♂

500

!

Bal

Linum extraaxillare
Kit.

2000

♂

1400

!

Carp-Bal

Linum flavum
L.

1600

♂

0

subMed

Linum hirsutum
L.

1700

♂

0

subMed

Linum hologynum
Rchb.

2000

♂

600

subMed

Linum nervosum
Waldst. & Kit.

1300

♂

100

subMed

Linum nodiflorum
L.

700

♂

0

Med

Linum pallasianum
Schult.

200

♂

0

Pont

Linum strictum
L.

300

♂

0

Med-OT

Linum tauricum
Willd.

1400

♂

0

Pont-Med

Linum tenuifolium
L.

1600

♂

0

Pont-Med

Linum thracicum
(Griseb.) Degen

1000

♂

200

Bal

Linum trigynum
L.

900

♂

0

subMed

Linum uninerve
(Rochel) Borbás

1600

♂

1000

Pont

Liparis loeselii
(L.) Rich.

500

♂

0

Boreal

Listera cordata
(L.) R. Br.

1600

♂

1000

Boreal

Listera ovata
(L.) R. Br.1400
♂
0

Eur-As

Lithospermum officinale
L.2000
♂
0

Eur-As

Lloydia serotina
(L.) Rchb.2900
♂
700

Boreal

Logfia arvensis
(L.) Holub1000
♂
0

Eur-Med

Logfia gallica
(L.) Coss. & Germ.200
♂
0

subMed

Logfia minima
(Sm.) Dumort.1000
♂
0

Eur-Sib

Lolium loliaceum
(Bory & Chaub.) Hand.-Mazz.100
♂
0

Pont-Med

Lolium multiflorum
Lam.800
♂
0

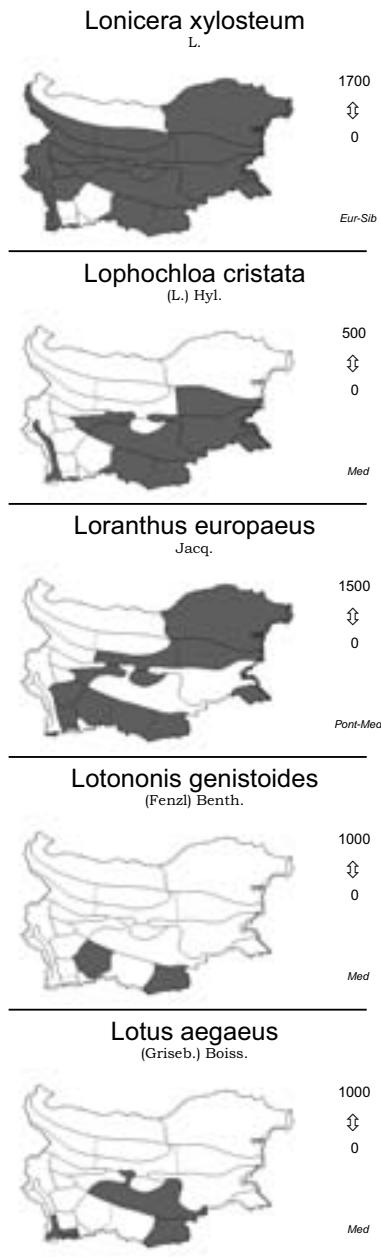
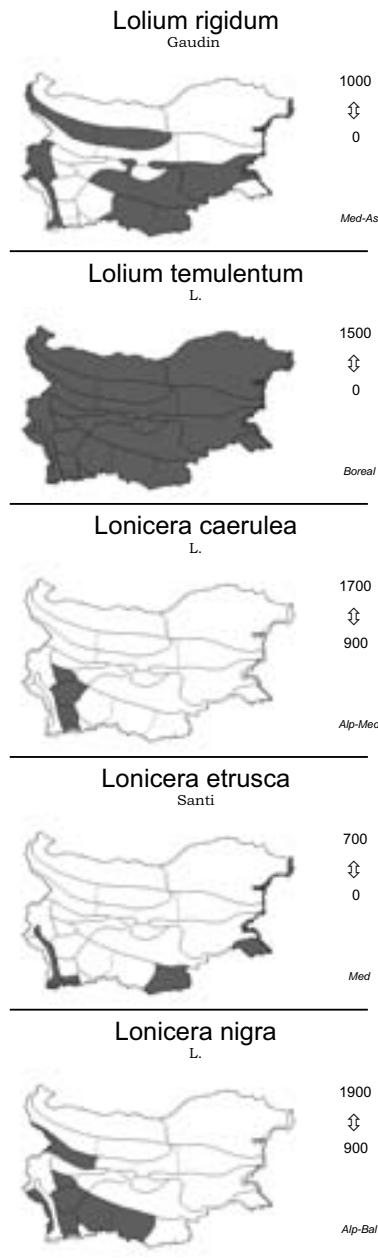
subMed

Lolium perenne
L.1800
♂
0

Eur-As

Lolium remotum
Schank1000
♂
0

Eur-As



Lotus angustissimus
L.

1000

♂

0

Med

Lotus corniculatus
L.

2300

♂

0

Eur-Med

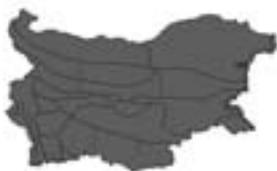
Lotus strictus
Fisch. & C. A. Mey.

300

♂

0

Pont-Med

Lotus tenuis
Waldst. & Kit.

1000

♂

0

Eur-CAs

Lotus uliginosus
Schkuhr

100

♂

0

Eur-Med

Ludwigia palustris
(L.) Elliott

400

♂

0

!

Eur-NAm

Lunaria annua
L.

1300

♂

0

Med

Lunaria rediviva
L.

1400

♂

750

Eur

Lupinus albus
L.

800

♂

0

!

Med

Lupinus angustifolius
L.

500

♂

0

Med

Lupinus graecus
Boiss. & Spruner



500
♂
0

Luzula forsteri
(Sm.) DC.



1500
♂
0

Luzula alpino-pilosa
(Chaix) Breistr.



2900
♂
2200

Luzula glabrata
(Hoppe) Desf.



2900
♂
2000
!

Luzula campestris
(L.) Lam. & DC.



1500
♂
0

Luzula italicica
Parl.



2300
♂
1800

Luzula divulgata
Kirschner



♂

Luzula luzulina
(Vill.) Dalla Torre & Sarnth.



2500
♂
1700

Luzula falax
Kirschner



♂

Luzula luzuloides
(Lam.) Dandy



2500
♂
0

Luzula multiflora
(Retz.) Lej.



1500
♂
0

Kos

Luzula pilosa
(L.) Willd.



1200
♂
0

Boreal

Luzula pindica
(Hausskn.) Chr. & Krs.



2600
♂
2000

subBoreal

Luzula sudetica
(Willd.) DC.



2900
♂
2000

Kos

Luzula sylvatica
(Hudson) Gaudin



1900
♂
300

Eur

Lychnis coronaria
(L.) Desr.



1500
♂
0

Med-OT

Lychnis flos-cuculi
L.



1400
♂
0

Eur-Sib

Lycium barbarum
L.



500
♂
0

Med (Adv)

Lycopodiella inundata
(L.) Holub



1600
♂
1200

!

Eur-NAm

Lycopodium clavatum
L.



2200
♂
1600

Kos

Lycopsis arvensis
L.1000
♂
0

Eur-As

Lycopus europaeus
L.1000
♂
0

Eur-As

Lycopus exaltatus
L. f..1000
♂
0

Eur-As

Lysimachia atropurpurea
L.300
♂
0

Med

Lysimachia dubia
Sol.800
♂
0

subMed

Lysimachia nummularia
L.1500
♂
0

Eur

Lysimachia punctata
L.1200
♂
0

Pont-Med

Lysimachia thyrsiflora
L.250
♂
250

!

subBoreal

Lysimachia vulgaris
L.1400
♂
0

Eur-As

Lythrum hyssopifolia
L.1900
♂
0

Kos

Lythrum salicaria
L.

1700

↔

0

subBoreal

Lythrum thymifolia
L.

400

↔

0

! Med-Sib

Lythrum tribracteatum
Salzm. ex Spreng.

800

↔

0

Pont-Sib

Lythrum virgatum
L.

1500

↔

100

Eur-As

Mahonia aquifolium
(Pursh) Nutt.

700

↔

0

Adv

Malabayla aurea
(Sm.) Boiss.

300

↔

0

Med

Malabayla graveolens
(M. Bieb.) Hoffm.

1000

↔

0

subMed

Malcolmia africana
(L.) R.Br.

100

↔

0

Adv

Malcolmia orsiniana
(Ten.) Ten.

1500

↔

600

! Bal-Ap

Malus dasypylla
Borkh.

1500

↔

0

Pann-Pont

Malus praecox
(Pall.) Borkh.



1500
◻
0

Malus sylvestris
Mill.



1500
◻
300

Malva alcea
L.



1100
◻
300

Malva crispa
(L.) L.



1000
◻
1000

Malva moschata
L.



2000
◻
400

Malva neglecta
Wallr.



1500
◻
0

Malva nicaeensis
All.



200
◻
0

Malva pusilla
Sm.



1000
◻
0

Malva sylvestris
L.



1400
◻
0

Malvella sherardiana
(L.) Jaub. & Spach



500
◻
100

Maresia nana
(DC.) Batt.

50

♂

0

!

Med

Marrubium friwaldskyanum
Boiss.

1400

♂

200

Bul

Marrubium parviflorum
Fisch. & C. A. Mey.

500

♂

0

Med

Marrubium peregrinum
L.

1000

♂

0

subMed

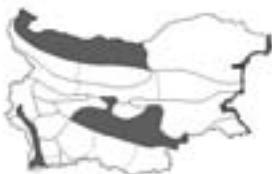
Marrubium vulgare
L.

1000

♂

0

Eur-As

Marsilea quadrifolia
L.

200

♂

0

!

Boreal

Matricaria caucasica
(Willd.) Poir.

2500

♂

1000

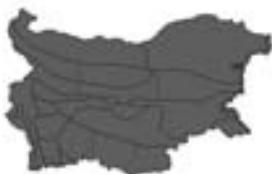
Bal-Cauc

Matricaria disciformis
(C. A. Mey.) DC.

300

♂

0

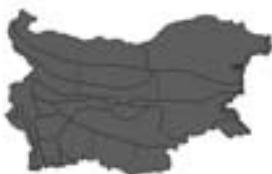
Matricaria perforata
Mérat

1000

♂

0

Eur-Med

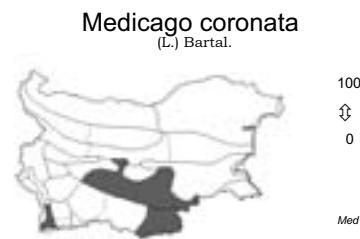
Matricaria trichophylla
(Boiss.) Boiss.

1000

♂

0

Med



Medicago lupulina
L.

1600

↔
0

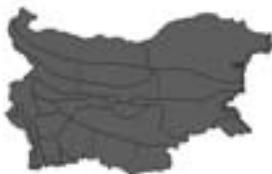
Eur-As

Medicago marina
L.0
↔
0

Med

Medicago minima
(L.) Bartal.1000
↔
0

Eur-As

Medicago orbicularis
All.900
↔
0

Eur-Med

Medicago polymorpha
L.1200
↔
0

Kos

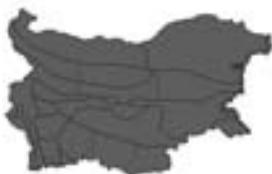
Medicago praecox
DC.100
↔
0

Pont-Med

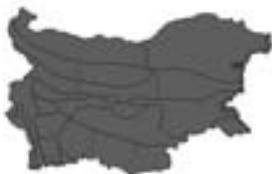
Medicago rhodopea
Velen.500
↔
0

!

Bul

Medicago rigidula
(L.) All.800
↔
0

Eur-Med

Medicago sativa
L.1200
↔
0

CAs (Adv)

Melampyrum arvense
L.1000
↔
0

Eur-Med

Melampyrum bihariense
A. Kern.



1000
◻
0

Eur

Melampyrum cristatum
L.



2000
◻
0

Eur-Sib

Melampyrum pratense
L.



2900
◻
200

Eur-Sib

Melampyrum scardicum
Wettst.



2000
◻
0

Bal

Melampyrum sylvaticum
L.



2900
◻
2000

Eur

Melica altissima
L.



500
◻
0

Pont-CAs

Melica ciliata
L.



2000
◻
0

Eur-subMed

Melica nutans
L.



2000
◻
0

Eur-As

Melica picta
C. Koch



1000
◻
0

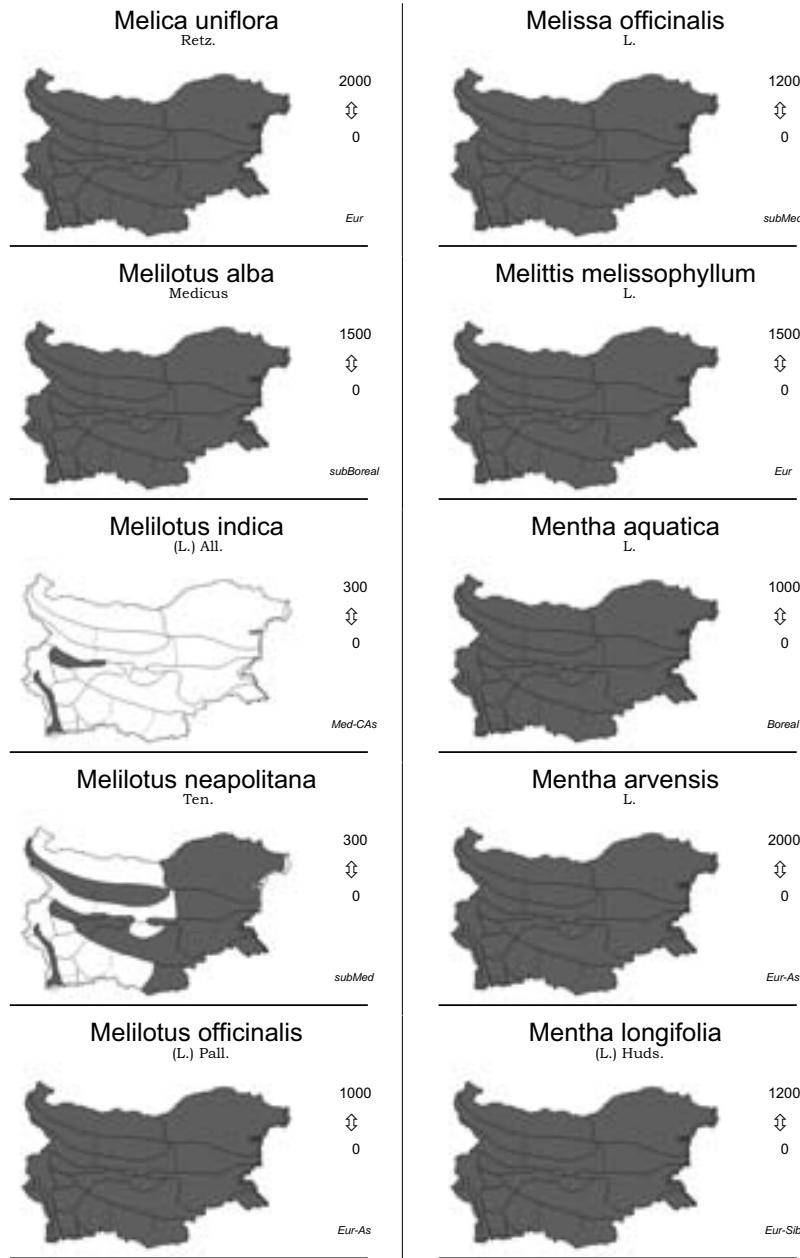
subMed

Melica transsilvanica
Schur



1500
◻
0

Bal-Dac



Mentha pulegium
L.

1600

↔
0

Eur-As

Mentha spicata
L.

1700

↔
0

Eur

Mentha suaveolens
Ehrh.

400

↔
0

Eur

Menyanthes trifoliata
L.

1800

↔
0

Boreal

Mercurialis annua
L.

800

↔
0

subMed

Mercurialis ovata
Sternb. & Hoppe

1500

↔
0

subMed

Mercurialis perennis
L.

1500

↔
0

subMed

Merendera attica
(Spruner ex Tomm.) Boiss. ex Spruner

700

↔
0

Bal

Merendera sobolifera
C. A. Mey.

700

↔
0

Med-OT

Mespilus germanica
L.

400

↔
100

Pont-Med

Meum athamanticum
Jacq.

2900

↓

1800

Alp-Carp-Bal

Mibora minima
(L.) Desv.

↓

Micromeria cristata
(Hampe) Griseb.

1500

↓

200

Bal-Anat

Micromeria dalmatica
Benth.

1500

↓

200

Bal

Micromeria frivaldszkyana
(Degen) Velen.

1500

↓

200

Bul

Micromeria juliana
(L.) Benth. ex Rehb.

600

↓

200

!

Med

Micropyrum tenellum
Link

400

↓

0

subMed

Middendorfia borystenica
(Schrank) Trautv.

180

↓

180

!

Pont-Med

Milium effusum
L.

2000

↓

0

subBoreal

Milium vernale
M. Bieb.

700

↓

0

subMed

Mimulus guttatus
DC.1000
0
0

NAm (Adv)

Minuartia adenotricha
Schischk.800
0
0

Poni-Med

Minuartia anatolica
(Boiss.) Woron.500
0
0

Bal-Anat

Minuartia attica
(Boiss. & Spruner) Vierh.500
0
0

Med

Minuartia bosniaca
(Beck) K. Maly1500
0
0

Bal

Minuartia bulgarica
(Velen.) Graebn.1600
0
500

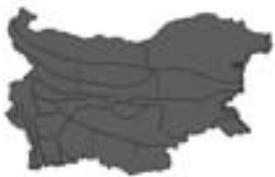
Bal

Minuartia caespitosa
(Ehrh.) Degen1500
0
0

Eur-Med

Minuartia garckeana
(Asch. & Graebn.) Mattf.1000
0
0

Bal

Minuartia glomerata
(M. Bieb.) Degen2900
0
0

Eur-Med

Minuartia hirsuta
(M. Bieb.) Hand.-Mazz.2100
0
0

subMed

Minuartia hybrida
(Vill.) Schischk.500
◻
0

Med-CAs

Minuartia intermedia
Panov0
◻
0

Bul

Minuartia janevii
Panov500
◻
0

Bul

Minuartia mediterranea
(Ledeb.) K. Maly500
◻
0

Med

Minuartia mesogitana
(Boiss.) Hand.-Mazz.300
◻
0

Med

Minuartia montana
L.1000
◻
0

subMed

Minuartia mutabilis
Schinz & Thell.600
◻
0

Eur

Minuartia recurva
(All.) Schinz & Thell.2900
◻
1000

Med-CAs

Minuartia rhodopaea
(Degen) Kožuharov & Kuzmanov1700
◻
0

Bal

Minuartia rumelica
Panov200
◻
0

Bul

Minuartia saxifraga
(Friv.) Graebn.2200
↓
700

Med

Minuartia setacea
(Thunb.) Hayek2400
↓
0

Pont

Minuartia stojanovii
(Kit.) Kožuharov & Kuzmanov2000
↓
2000
!

Bal

Minuartia strandjensis
Panov500
↓
100

Bul

Minuartia velutina
(Boiss. & Orph.) Graebn.1700
↓
1000

Bal

Minuartia verna
(L.) Hiern2900
↓
1000

subBoreal

Minuartia viscosa
(Schreb.) Schinz & Thell.1400
↓
0

Eur-Med

Misopates orontium
(L.) Raf.1000
↓
0

Eur-Med

Moehringia grisebachii
Janka700
↓
0

Bal

Moehringia jankae
Griseb. ex Janka500
↓
0

Bal

Moehringia muscosa
L.

2000

0
0

subMed

Moehringia pendula
(Waldst. & Kit.) Fenzl

2500

0
700

Carp-Bal

Moehringia trinervia
(L.) Clairv.

2500

0

Eur-As

Moenchia erecta
(L.) Gaertn., B. Meyer & Scherb.

300

0

subMed

Moenchia graeca
Boiss. & Heldr.

600

0

Bal

Moenchia mantica
(L.) Bartl.

1300

0

Eur-Med

Molineriella minuta
(L.) Rouy

500

0

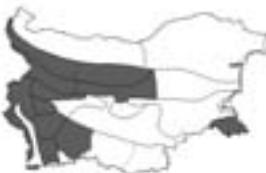
Med

Molinia arundinacea
Schrank

1000

0

Pann-Bal

Molinia coerulea
(L.) Moench

1500

0

Boreal

Molinia horanzskyi
Milk.

2200

800

Mollugo cerviana
(L.) Ser.600
◻
0

Poni-Med

Moneses uniflora
(L.) A. Gray2100
◻
1300

Boreal

Monotropa hypopitys
L.2000
◻
300

Boreal

Montia fontana
L.1100
◻
0

Kos

Montia sibirica
(L.) Howell1400
◻
1300

NAm (Adv)

Morina persica
L.2000
◻
1000

!

Med-OT

Morus alba
L.500
◻
0

Adv

Morus nigra
L.500
◻
0

Adv

Muscari armeniacum
Leichtlin ex Baker1000
◻
0

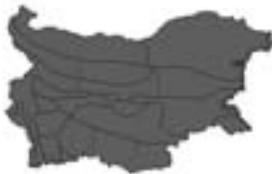
Bal

Muscari botryoides
(L.) Mill.2900
◻
0

Med

Muscari comosum
(L.) Mill.1000
◻
0

Med

Muscari neglectum
Guss. ex Ten.1000
◻
0

Med-OT

Muscari pulchellum
Heldr. & Sart. ex Boiss.1500
◻
0

Med-OT

Muscari racemosum
DC.1500
◻
0

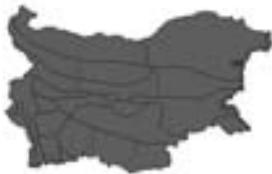
subMed

Muscari tenuiflorum
Tausch2900
◻
1000

Pont-Med

Muscari vandssii
Velen.1000
◻
0

Bul

Myagrum perfoliatum
L.700
◻
0

Eur-Med

Mycelis muralis
(L.) Dumort.1500
◻
0

Med

Myosotis alpestris
F. W. Schmidt2900
◻
1500

Eur-Med

Myosotis arvensis
(L.) Hill1700
◻
0

Eur-As

Myosotis aspera
Velen.1000
100
Bul*Myosotis cadmea*
Boiss.1800
100
Med*Myosotis cyanea*
(Boiss. & Heldr.) Peev et N. Andreev1900
100
Med-SAs*Myosotis incrassata*
Guss.800
0
subMed*Myosotis jordanovii*
N. Andreev & Peev2300
1500
Bul*Myosotis laxa*
Lehm.1500
0
subBoreal*Myosotis macedonica*
Velen. & Charrel300
0
Bal*Myosotis margaritae*
Štěpánková0
0
Bal-Dac*Myosotis michaelae*
Štěpánková0
0
0*Myosotis nemorosa*
Besser2900
1000
subMed-As

Myosotis olympica
Boiss.

2900

↓
2000

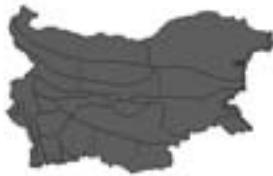
Bal-Anat

Myosotis orbelica
(Velen.) Peev & N. Andreev

2900

↓
1800

Bul

Myosotis ramosissima
Rochel

1500

↓
0

subMed

Myosotis rhodopea
Velen.

300

↓
0

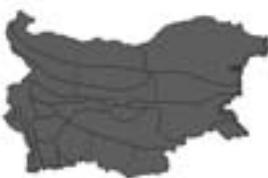
Bul

Myosotis scorpioides
L.

2000

↓
0

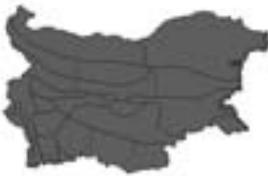
Eur-NAm

Myosotis sicula
Guss.

1200

↓
0

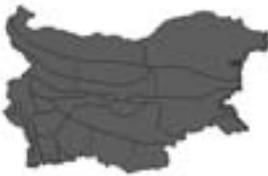
Eur-As

Myosotis sparsiflora
Mikan ex Pohl

2000

↓
300

Eur-As

Myosotis stricta
Link ex Roem. & Schult.

1000

↓
0

Eur-As

Myosotis suaveolens
Waldst. & Kit.

2900

↓
1500

Bal

Myosotis sylvatica
Ehrh. ex Hoffm.

2300

↓
300

Eur-As

Myosoton aquaticum
(L.) Moench

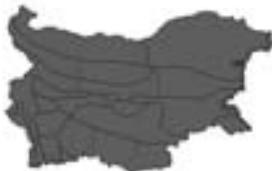


1200

◻
0

Eur-As

Myosurus minimus
L.



500

◻
0

Eur-Sib

Myricaria germanica
(L.) Desv.



1000

◻
0

Eur-WAs

Myriophyllum spicatum
L.



500

◻
0

Boreal

Myriophyllum verticillatum
L.



600

◻
0

Boreal

Myrrhoides nodosa
(L.) Cannon



800

◻
0

Eur-As

Najas graminea
Delile



200

◻
0

Paleo (Adv)

Najas marina
L.

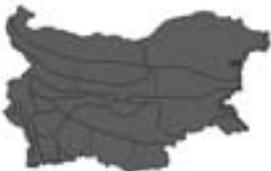


100

◻
0

Boreal

Najas minor
All.



900

◻
0

Paleo (Adv)

Narcissus pseudonarcissus
L.



1000

◻
500

Adv

Nardus stricta
L.

2400

◻

1200

Arct-Alp

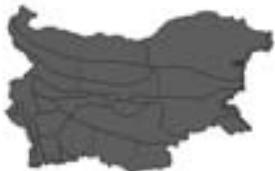
Nepeta cataria
L.

1500

◻

0

Eur-As

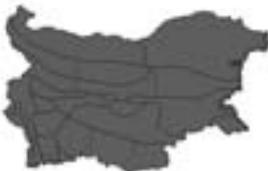
Nasturtium officinale
R. Br.

1500

◻

0

Eur-As

Nepeta nuda
L.

1900

◻

0

Eur-As

Neatostema apulum
(L.) I. M. Johnst.

1000

◻

0

Med

Nepeta parviflora
M. Bieb.

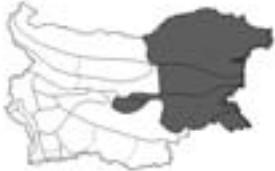
300

◻

0

!

subMed

Nectaroscordum siculum
(Ucria) Lindl.

1000

◻

0

Pont-Med

Nepeta ucranica
L.

300

◻

0

!

Eur-As

Neottia nidus-avis
(L.) Rich.

1800

◻

0

Eur-As

Neslia paniculata
(L.) Desv.

1000

◻

0

As

Nicandra physaloides
(L.) Gaertn.

400

↔

0

SAM (Adv)

Nigella arvensis
L.

1000

↔

0

subMed

Nigella damascena
L.

700

↔

0

subMed

Nigella elata
Boiss.

500

↔

0

Pont-Med

Nigella orientalis
L.

700

↔

0

subMed

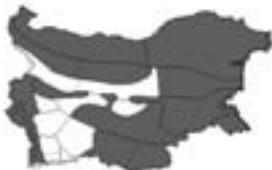
Nigritella nigra
(L.) Rchb. f.

2700

↔

1700

Eur

Nonea atra
Griseb.

1000

↔

0

Bal

Nonea obtusifolia
(Willd.) DC.

0

↔

0

Med

Nonea pallens
Petrovici

1000

↔

0

Pont

Nonea pulla
(L.) DC.

1000

↔

0

subMed

Nonea ventricosa
(Sm.) Griseb.



1000



0

subMed

Nuphar lutea
(L.) Sm.



200



0

Eur-As

!

Nymphaea alba
L.



200



0

Eur-Med

!

Nymphoides peltata
(S. G. Gmel.) Kuntze



100



0

Eur-Sib

!

Odontites glutinosa
(M. Bieb.) Benth.



2900



1000

Pont-Med

Odontites lutea
(L.) Clairv.



1800



300

Eur

Odontites serotina
(Lam.) Dumort.



1000



0

Eur

Oenanthe angulosa
Griseb.



800



0

subMed

Oenanthe aquatica
(L.) Poir.



1000



0

Eur-Sib

Oenanthe banatica
Heuff.

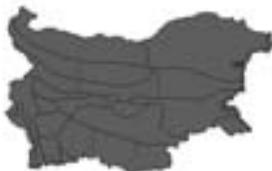


1600



0

Pont

Oenanthe fistulosa
L.

1000

◻

0

Eur-Med

Oenanthe lachenalii
C. C. Gmel.

1000

◻

0

subMed

Oenanthe millefolia
Janka

1000

◻

0

Bul

Oenanthe pimpinelloides
L.

500

◻

0

Eur-Med

Oenanthe silaifolia
M. Bieb.

1600

◻

0

Eur-Med

Oenanthe stenoloba
Schur

1700

◻

0

subMed

Oenanthe tenuifolia
Boiss. & Orhp.

300

◻

0

Bal

Oenothera biennis
L.

400

◻

0

Am (Adv)

Oenothera bulgarica
Delip.

500

◻

0

Bul (Adv)

Oenothera parviflora
L.

600

◻

600

NAm (Adv)

Oenothera stricta
Ledeb. ex Link



200

◻

0

Adv (NAm)

Omalotheca norvegica
(Gunn.) Sch. Bip. & F. Schul.



1000

◻

0

Boreal

Omalotheca supina
(L.) DC.



2900

◻

2000

Boreal

Omalotheca sylvatica
(L.) Sch. Bip. & F. Schul.



2000

◻

1000

Eur-WAs

Onobrychis aequidentata
(Sm.) D'Urv.



300

◻

0

subMed

Onobrychis alba
(Waldst. & Kit.) Desv.



1700

◻

200

subMed

Onobrychis arenaria
(Kit.) DC.



1200

◻

0

SPont

Onobrychis caput-gali
(L.) Lam.



300

◻

0

subMed

Onobrychis degenii
Dörf.



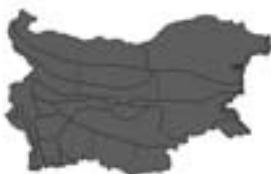
800

◻

0

Bal

Onobrychis gracilis
Besser

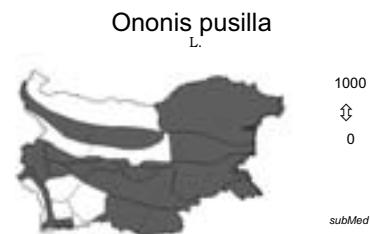
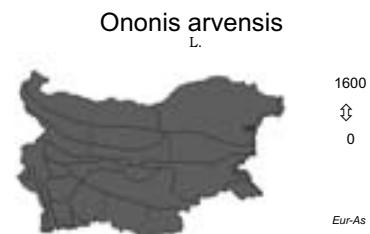
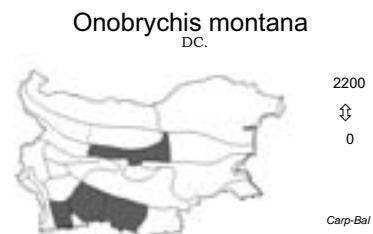


800

◻

0

Pont-Med



Ononis repens
L.

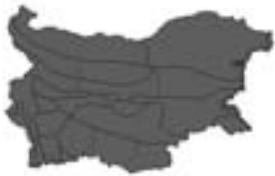
1500

↔
0

Eur

Ononis spinosa
L.300
↔
0

Eur-As

Onopordum acanthium
L.1500
↔
0

Eur-Med

Onopordum bracteatum
Boiss. & Heldr.100
↔
0!
Med*Onopordum illyricum*
L.100
↔
0

Pont-Med

Onopordum tauricum
Willd.

1000

↔
0

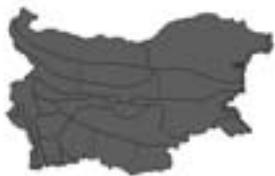
Med

Onosma arenaria
Waldst. & Kit.700
↔
0

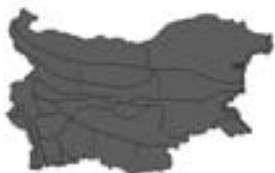
Eur

Onosma aucherana
DC.1800
↔
0

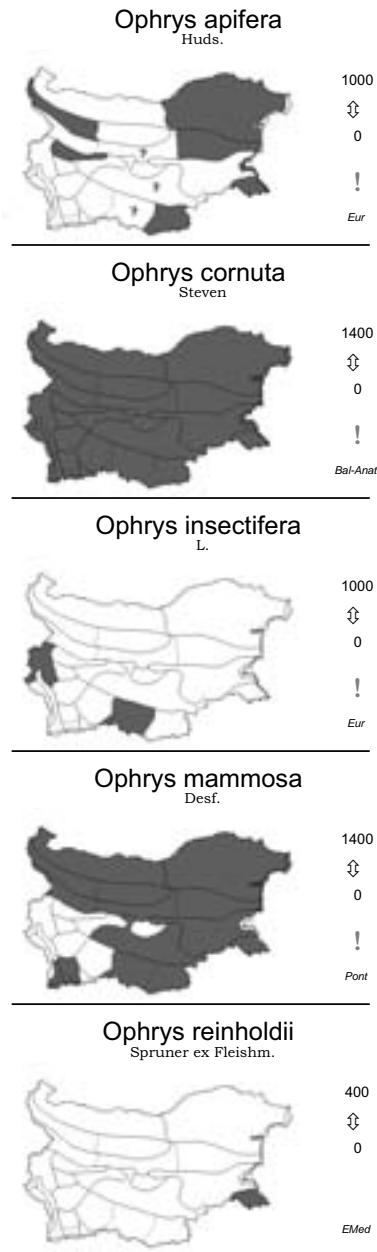
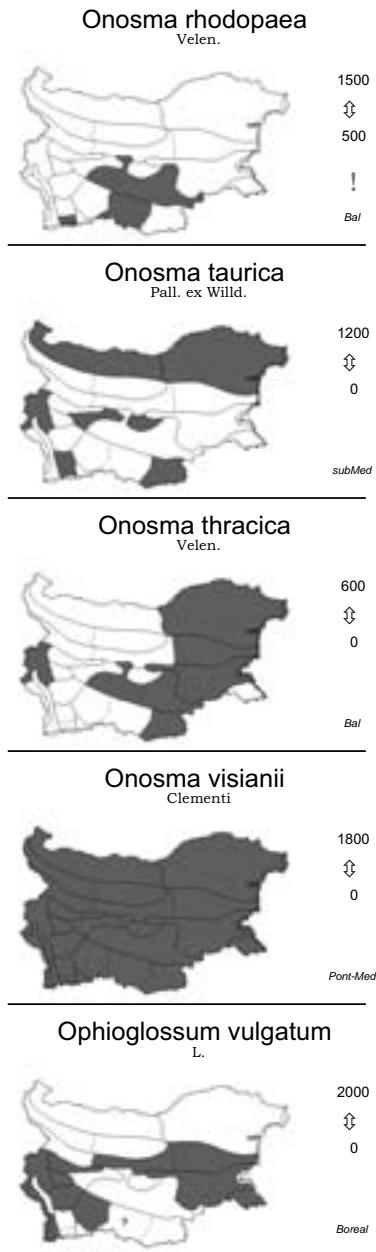
subMed

Onosma echoioides
L.1500
↔
0

Med

Onosma heterophylla
Griseb.1500
↔
0

subMed



Opopanax chironium
(L.) Koch

500

↔

0

!

Med

Opopanax hispidum
(Friv.) Griseb.

500

↔

0

Med

Opuntia tortispina
Engelm.

100

↔

0

NAm

Opuntia vulgaris
Mill.

200

↔

0

NAm

Orchis coriophora
L.

1500

↔

0

Eur-subMed

Orchis elegans
Heuff.

1000

↔

0

Eur-OT

Orchis lactea
Poir.

1000

↔

0

Pont-Med

Orchis laxiflora
Lam. s. str.

1000

↔

0

subMed

Orchis mascula
L. s. str.

2000

↔

0

Eur-Sib

Orchis militaris
L.

1500

↔

0

Pont-Med

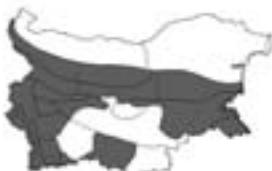
Orchis morio
L.

1500

□

0

Eur-subMed

Orchis ovalis
F. W. Schmidt ex Mayer

1500

□

0

EEur

Orchis pallens
L.

1500

□

0

SPont

Orchis papilionacea
L.

1000

□

0

! subMed

Orchis pinetorum
Boiss. & Kotschy

1500

□

0

subMed

Orchis provincialis
Balb.

300

□

0

!

Med

Orchis purpurea
Huds.

1500

□

0

subMed

Orchis simia
Lam.

1800

□

0

subMed

Orchis spitzelii
Saut. ex Koch

1000

□

0

!

subMed

Orchis tridentata
Scop.

1600

□

0

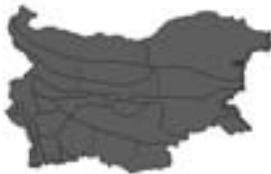
Eur-subMed

Orchis ustulata
L.

2000

◻
0

Eur-Sib

Origanum vulgare
L.

1700

◻
0

Eur-As

Orlaya daucorlaya
Murb.

200

◻
0

subMed

Orlaya grandiflora
(L.) Hoffm.

900

◻
0

Ap-Bal

Orlaya kochii
Heywood

500

◻
0

Eur-As

Ornithogalum amphibolum
Zahar.

◻

Ornithogalum boucheanum
Asch.

1000

◻
0

Pont-Med

Ornithogalum comosum
L.

1000

◻
0

Med

Ornithogalum divergens
Bureau

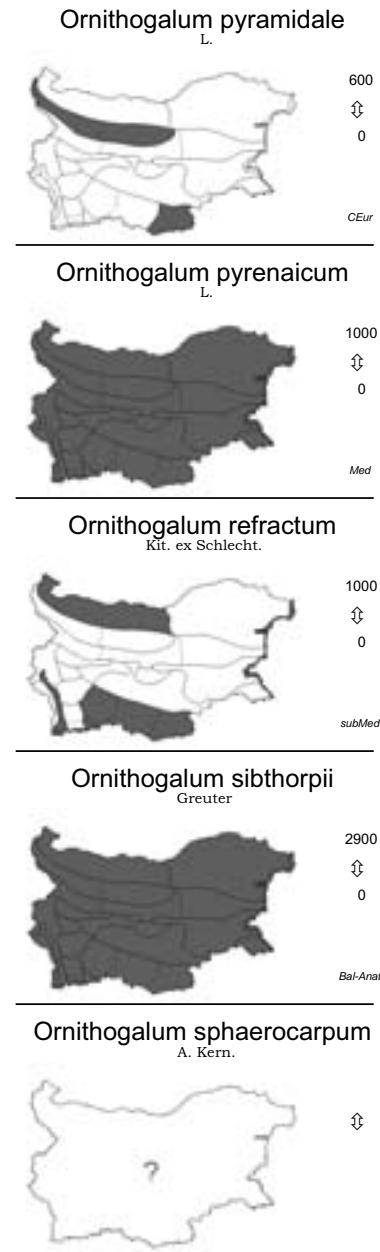
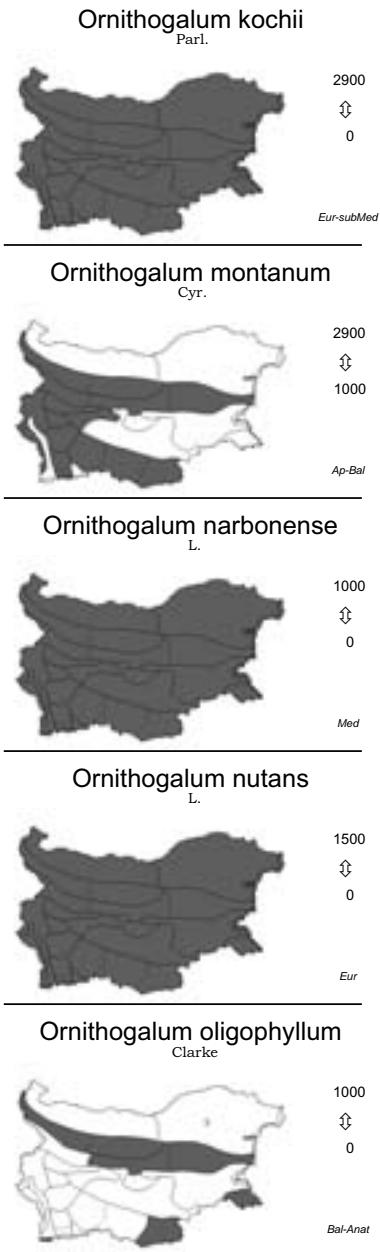
◻

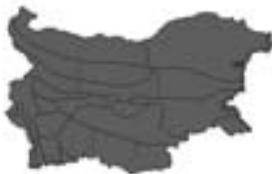
Ornithogalum fimbriatum
Willd.

1000

◻
0

Pont

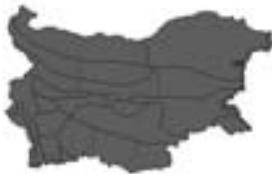


Ornithogalum umbellatum
L.1000
◻
0*Ornithopus compressus*
L.800
◻
0

Pont-subMed

Orobanche aegyptiaca
Pers.1000
◻
0

Med-CAs

Orobanche alba
Stephan ex Willd.2000
◻
0300
◻
0

Eur

Eur-Med

Orobanche alsatica
Kirschl.400
◻
0

subMed-CAs

Orobanche amethystea
Thuill.1000
◻
0

Med-OT

Orobanche arenaria
Borkh.1000
◻
0

Eur-Med

Orobanche caryophyllacea
Sm.1000
◻
300

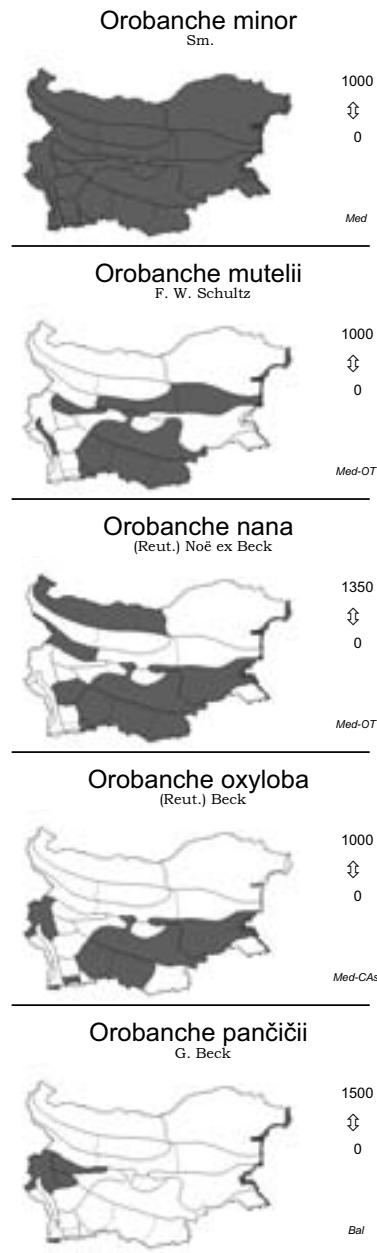
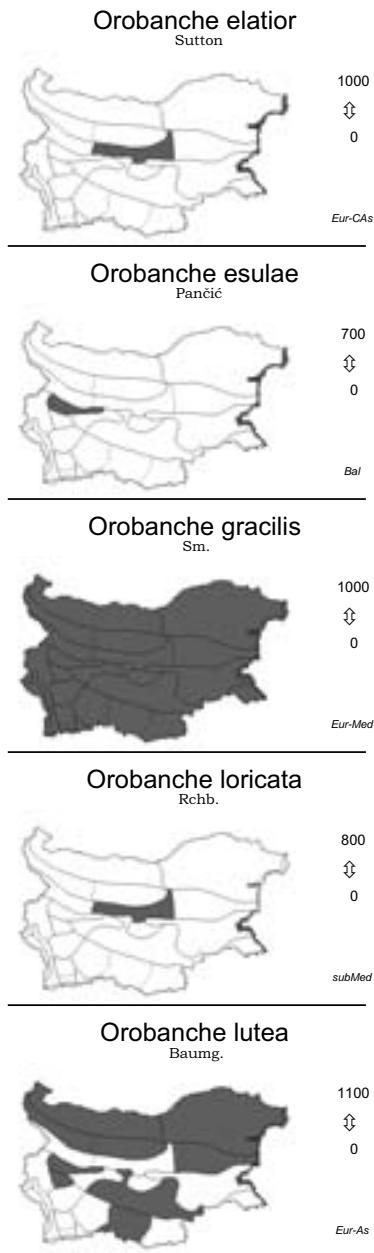
Eur

Orobanche crenata
Forssk.300
◻
0

Med

Orobanche cumana
Wallr.800
◻
0

Med-Sib



Orobanche picridis
F. Schultz ex Koch



↔

Orobanche pubescens
D'Urv.



1000

↔

0

Med

Orobanche purpurea
Jacq.



1000

↔

0

Eur

Orobanche ramosa
L.



1200

↔

0

Eur-Med

Orobanche rapum-genistae
Thuill.



1000

↔

0

Orobanche reticulata
Wallr.



1800

↔

0

Eur

Orobanche serbica
Beck & Petrović



800

↔

0

Bal

Orobanche teucrii
Holandre



800

↔

0

subMed

Orthilia secunda
(L.) House



2000

↔

1100

Boreal

Osmunda regalis
L.



500

↔

0

Kos

Ostrya carpinifolia
Scop.



1200

◻
0

subMed

Osyris alba
L.



1000

◻
0

Med

Otanthus maritimus
(L.) Hoffm. & Link



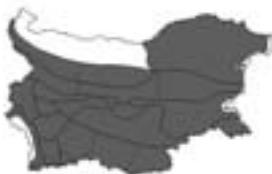
0

◻
0

!

Med

Oxalis acetosella
L.

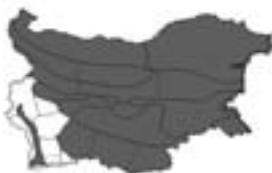


2000

◻
400

subBoreal

Oxalis corniculata
L.



1000

◻
0

Eur-As

Oxalis dillenii
Jacq.



500

◻
0

NAm (Adv)

Oxalis fontana
Bunge



300

◻
0

NAm (Adv)

Oxalis stricta
L.



800

◻
0

Adv

Oxyria digyna
(L.) Hill



2800

◻
1800

Arct-Alp

Oxytropis campestris
(L.) DC.



2500

◻
2500

Boreal

Oxytropis kozhucharovii
D. Pavlova, D. Dimitrov, M. Nikolova



2400

↓

2200

!

Bul

Oxytropis pilosa
(L.) DC.



800

↓

0

Eur-CAs

Oxytropis urumovii
Jav.



2900

↓

2500

!

Bul

Paeonia mascula
(L.) Mill.



1500

↓

0

Pont-Med

Paeonia peregrina
Mill.



1000

↓

0

subMed

Paeonia tenuifolia
L.



600

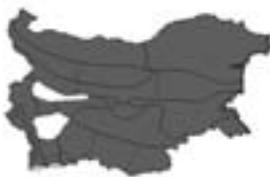
↓

0

!

subMed

Paliurus spina-christi
Mill.



600

↓

0

Eur-As

Pallenis spinosa
(L.) Cass.



500

↓

0

!

Med

Pancratium maritimum
L.



0

↓

0

!

Pont-Med

Panicum capillare
L.



300

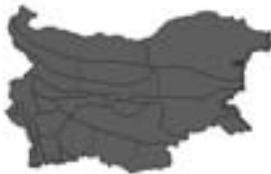
↓

0

Adv

Papaver apulum
Ten.1000
↓
0

Med

Papaver degenii
(Urum. & Jav.) Kuzmanov2900
↓
2100!
Bul*Papaver dubium*
L.1000
↓
0

Med

Papaver hybridum
L.500
↓
0

Med-CAs

Papaver laevigatum
M. Bieb.1000
↓
0

subMed

Papaver pinnatifidum
Moris600
↓
0

Med

Papaver rhoes
L.1300
↓
0

Eur-Sib

Papaver rumelicum
Velen.500
↓
0

subMed

Parapholis incurva
(L.) C. E. Hubb.0
↓
0

subMed

Parentucellia latifolia
(L.) Caruel1000
↓
0

Med

Parietaria diffusa
Mert & Koch



500
◻
0

subMed

Parietaria erronea
Panov



700
◻
200

Bul

Parietaria lusitanica
L.



1000
◻
0

Med-As

Parietaria officinalis
L.



700
◻
0

Eur

Parietaria rhodopaea
Panov



1000
◻
500

Bul

Paris quadrifolia
L.



1800
◻
600

Eur-Sib

Parnassia palustris
L.



2000
◻
400

subBoreal

Paronychia cephalotes
(M. Bieb.) Besser



2200
◻
0

Pont

Paronychia kapela
(Hacq.) A. Kern.



2900
◻
500

subMed

Partenocissus quinquefolia
(L.) Planch.



500
◻
0

NAm (Adv)

Parvotrisetum myrianthum
(Bertol.) Chrtk



100

↔

0

!

Med

Paspalum paspaloides
(Michx) Scribn.



200

↔

0

Paleo (Adv)

Pastinaca argyrophylla
Delip.



2000

↔

1800

!

Bul

Pastinaca hirsuta
Pančić



2000

↔

500

Bal

Pastinaca sativa
L.



1500

↔

0

Eur-Sib

Pastinaca umbrosa
Steven & DC.



500

↔

0

Med

Pedicularis comosa
L.



1300

↔

0

Eur-Med

Pedicularis grisebachii
Wettst.



1500

↔

100

Bal

Pedicularis hoermanniana
K. Maly



2000

↔

1300

Bal

Pedicularis leucodon
Griseb.



1000

↔

0

Bal

Pedicularis moesiaca
Standl.1200
♂
200

Bal

Pedicularis occulta
Janka2000
♂
1000

Bal

Pedicularis oederi
Vahl2900
♂
2000

Arct-Alp

Pedicularis orthantha
Griseb.2500
♂
1400

Bal

Pedicularis palustris
L.1000
♂
500

Eur-As

Pedicularis petiolaris
Ten.2500
♂
1000

Ap-Bal

Pedicularis verticillata
L.2900
♂
1000

Boreal

Peganum harmala
L.100
♂
0

Eur-As

Peplis alternifolia
M. Bieb.200
♂
0

Pont-WAs

Peplis portula
L.1400
♂
0

Eur-Sib

Periploca graeca
L.300
◻
0

Pont-Med

Persicaria minor
(Huds.) Opiz1500
◻
0

Eur-As

Persicaria amphibia
(L.) Gray1200
◻
0

Kos

Persicaria mitis
(Schrank) Opiz1000
◻
0

Eur-Med

Persicaria hydropiper
(L.) Opiz1000
◻
0

Eur-As

Petasites albus
(L.) Gaertn.2500
◻
1800

Eur-Pont

Persicaria lapathifolia
(L.) Gray1000
◻
0

Boreal

Petasites hybridus
(L.) Gaertn.1800
◻
0

Eur

Persicaria maculata
(Raf.) Gray1700
◻
0

Eur-As

Petasites kablikianus
Tausch ex Berch.2000
◻
0

!

Carp-Bal

Petrorrhagia alpina
(Hablitz) P. W. Ball & Heywood



1500

↔

1000

!

Petrorrhagia illyrica
(Ard.) P. W. Ball & Heywood



1000

↔

0

Pont-Med

Petrorrhagia prolifera
(L.) P. W. Ball & Heywood



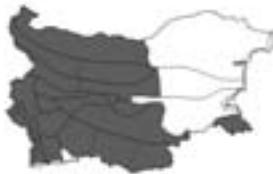
1200

↔

0

Pont-Med

Petrorrhagia saxifraga
(L.) Link



1300

↔

0

subMed

Petrorrhagia thessala
(Boiss.) P. W. Ball & Heywood



1000

↔

700

!

Bal

Petrorrhagia velutina
(Guss.) P. W. Ball & Heywood



1000

↔

0

Med

Petrosimonia brachiata
(Pall.) Bunge



0

↔

0

Pont-CAs

Peucedanum aegopodiooides
(Boiss.) Vandas



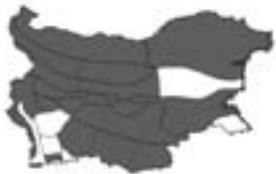
1200

↔

100

Bal

Peucedanum alsaticum
L.



1000

↔

0

subMed

Peucedanum arenarium
Waldst. & Kit.



1600

↔

0

Eur-Med

Peucedanum austriacum
(Jacq.) Koch



1900
↓
1000

Pont

Peucedanum carvifolium
Vill.



1200
↓
300

subMed

Peucedanum cervaria
(L.) Lapeyr.



1000
↓
0

subMed

Peucedanum longifolium
Waldst. & Kit.



600
↓
100

subMed

Peucedanum officinale
L.



900
↓
100

Eur-Med

Peucedanum oligophyllum
(Griseb.) Vandas



2600
↓
1100

Bal

Peucedanum ostruthium
(L.) Koch



800
↓
600

Peucedanum palustre
(L.) Moench



650
↓
650

!

Eur-Sib

Peucedanum ruthenicum
M. Bieb.



500
↓
300

!

Pont

Peucedanum vittijugum
Boiss.



500
↓
100

Bal

Phacelia tanacetifolia
Benth.



500
◻
0

Adv

Phacelurus digitatus
(Sm.) Griseb.



100
◻
0

Med

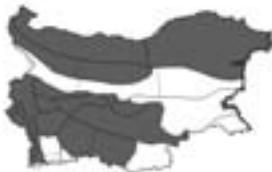
Phalaris aquatica
L.



100
◻
0

Med

Phalaris arundinacea
L.



600
◻
0

Boreal

Phalaris canariensis
L.



400
◻
0

Med

Phalaris paradoxa
L.



0
◻
0

Adv

Phillyrea latifolia
L.



500
◻
0

Med

Phleum alpinum
L.



2500
◻
1600

Arct-Alp

Phleum graecum
Boiss. & Heldr.



700
◻
0

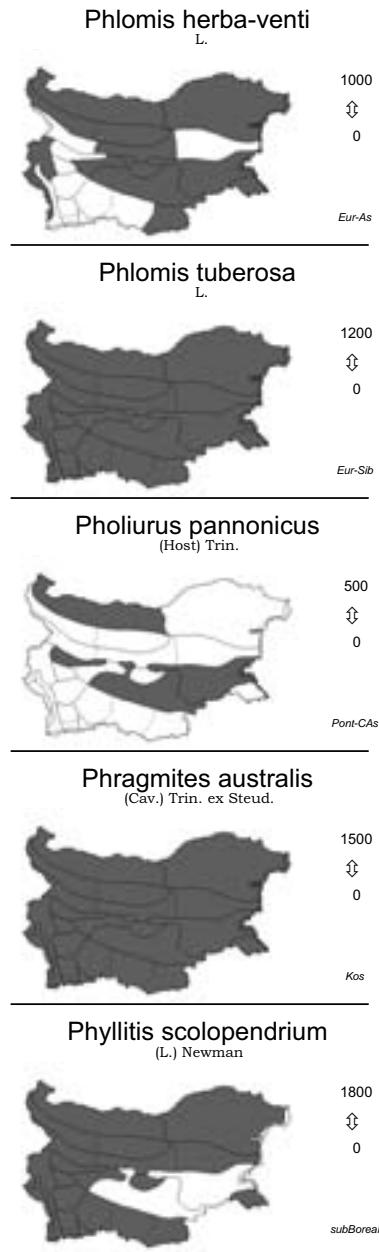
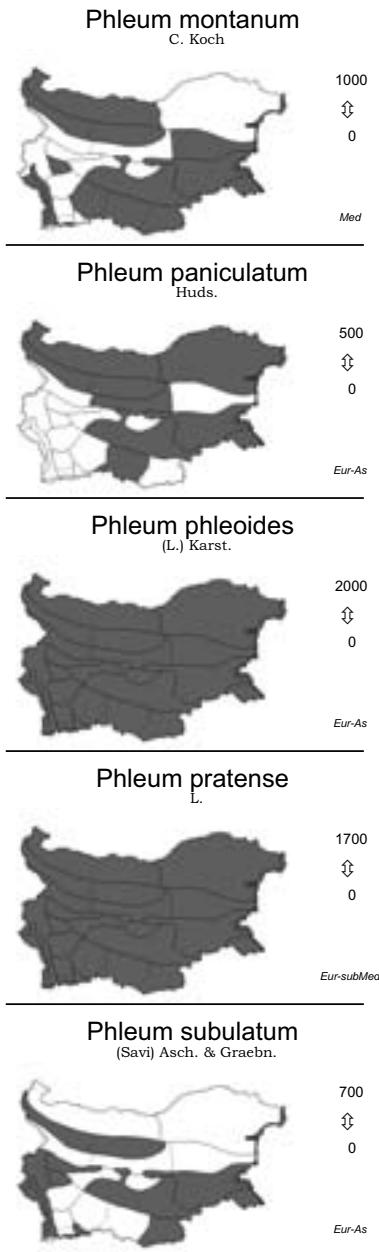
subMed-As

Phleum hirsutum
Honck.



2300
◻
1700

Alp-Carp-Bal

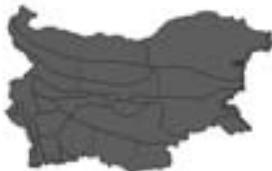


Physalis alkekengii
L.

1000

◻
0

Eur-As

Physospermum cornubiense
(L.) DC.

1700

◻
0

Eur-Med

Phyteuma confusum
A. Kern.

2300

◻
1700

Alp-Carp-Bal

Phytolacca americana
L.

500

◻
0

Adv

Picea abies
(L.) Karst.

2200

◻
1400

Boreal

Picnomon acarna
(L.) Cass.

1000

◻
0

Med

Picris altissima
Delile

500

◻
0

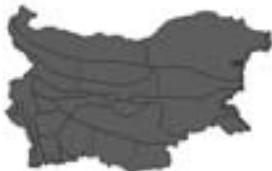
subMed

Picris echioides
L.

1000

◻
0

Med

Picris hieracioides
L.

2000

◻
300

Eur-As

Picris pauciflora
Willd.

1000

◻
0

Med

Picris sprengerana
(L.) Poir.

1000

♂

0

Med

Pimpinella major
(L.) Huds.

1000

♂

0

Eur

Pimpinella peregrina
L.

400

♂

0

Pont-Med

Pimpinella saxifraga
L.

1800

♂

400

Eur-As

Pimpinella tragium
Vill.

1400

♂

0

Pont-subMed

Pinguicula balcanica
Casper

2800

♂

900

Bal

Pinus brutia
Ten.

300

♂

300

Med

Pinus heldreichii
Christ.

2400

♂

1400

Ap-Bal

Pinus mugo
Turra

2500

♂

1700

Alp-Carp-Bal

Pinus nigra
Arnold

1600

♂

0

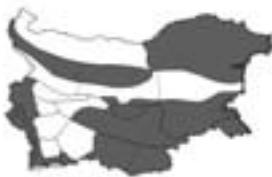
subMed

Pinus peuce
Griseb.2200
↓
1200

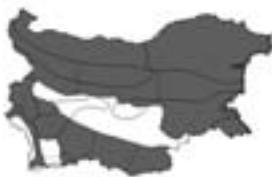
Bal

Pinus sylvestris
L.2200
↓
1000

subBoreal

Piptatherum holciforme
(M. Bieb.) Roem. & Schult.400
↓
0

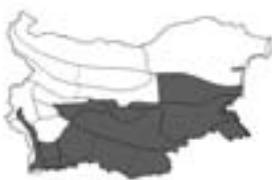
subMed

Piptatherum virescens
(Trin.) Boiss.1000
↓
0

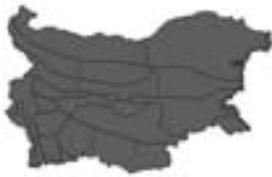
Med

Pirinia koenigii
M. Král2300
↓
2300

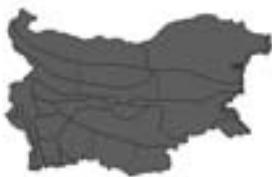
Bul

Pistacia terebinthus
L.400
↓
0

Pont-Med

Pisum elatius
M. Bieb.800
↓
0

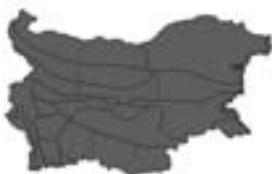
Eur

Pisum sativum
L.500
↓
0

Eur

Plantago atra
L.1000
↓
0

Med-SAs

Plantago altissima
L.1000
↓
0

Eur-Sib

Plantago argentea
Chaix.

1000

↔

0

subMed

Plantago atrata
Hoppe

2900

↔

1500

subMed

Plantago bellardii
All.

500

↔

0

Med

Plantago cornuti
L.

500

↔

0

Med-CAs

Plantago coronopus
L.

100

↔

0

Eur-Med

Plantago gentianoides
Sm.

2900

↔

1500

Bal-CAs

Plantago lagopus
L.

500

↔

0

Med

Plantago lanceolata
L.

2000

↔

0

Kos

Plantago major
L.

2000

↔

0

Boreal

Plantago media
L.

2000

↔

0

Boreal

Plantago scabra
Moench

1000

↔

0

Eur-Sib

Plantago subulata
L.

2900

↔

500

Med

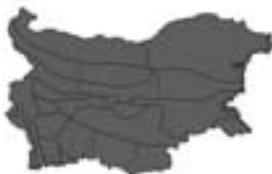
Plantago tenuiflora
Waldst. & Kit.

600

↔

0

Pont-CAs

Platanthera bifolia
(L.) Rich.

1500

↔

0

Eur-As

Platanthera chlorantha
(Custer) Rehb.

1200

↔

0

Eur-Sib

Platanus orientalis
L.

600

↔

0

Med

Pleuropteropyrum undulatum
(A. Murray) A. & D. Löve

2700

↔

1500

Eur-As

Pleurospermum austriacum
(L.) Hoffm.

900

↔

900

!

subMed

Plumbago europaea
L.

1000

↔

0

subMed

Poa aitensis
Kožuharov & Stoeva

500

↔

0

Bul

Poa alpina
L.

2000

↓

1500

Boreal

Poa cenisia
All.

2900

↓

2000

Arct-Alp

Poa angustifolia
L.

1500

↓

0

Kos

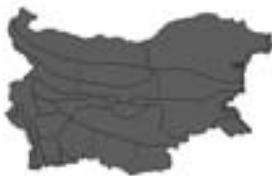
Poa chaixii
Vill.

2400

↓

1900

Alp-Carp-Bal

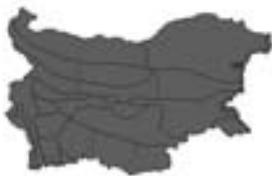
Poa annua
L.

2000

↓

0

Kos

Poa compressa
L.

1500

↓

0

Eur-subMed

Poa badensis
Haenke ex Willd.

1800

↓

0

Eur-As

Poa jordanovii
Kožuharov & Stoeva

1600

↓

1600

!

Bul

Poa bulbosa
L.

1000

↓

0

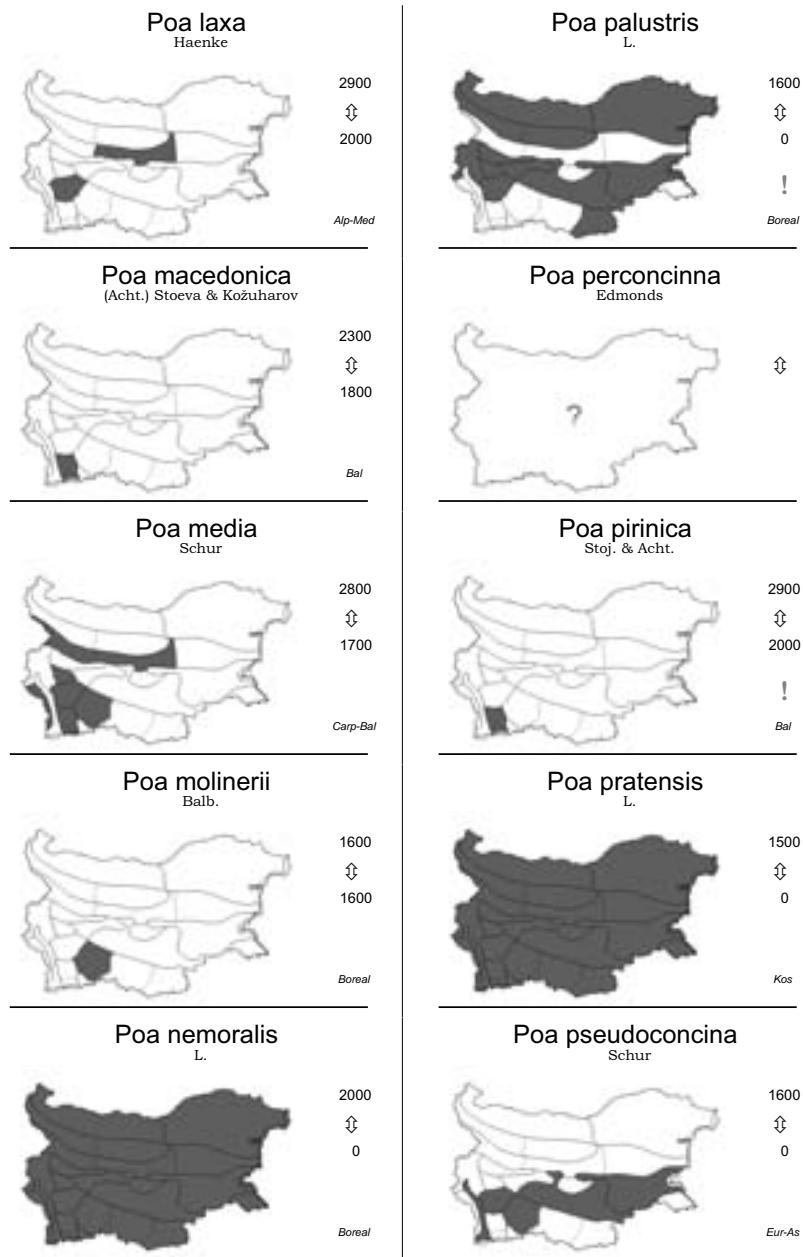
Eur-As

Poa jubata
A. Kern.

300

↓

0



Poa sterilis
M. Bieb.300
↔
0

Pont

Poa sylvicola
Guss.1500
↔
0

Eur-As

Poa timoleontis
Heidr. ex Boiss.500
↔
0

Cas

Poa trivialis
L.1000
↔
0

Boreal

Polycarpon diphyllum
Cav.400
↔
0

subMed

Polycarpon tetraphyllum
(L.) L.1000
↔
0

Eur-Med

Polycnemum arvense
L.1000
↔
0

Eur-Sib

Polycnemum heuffelii
Lang.200
↔
0

subMed

Polycnemum majus
A. Braun1000
↔
0

Eur-As

Polygala acarnanica
(Chodat) Kožuharov & Petrova1800
↔
1800

!

Bal

Polygala alpestris
Rchb.

1600

↓

1400

!

subMed

Polygala amarella
Crantz

2200

↓

900

!

Eur

Polygala anatolica
Boiss. & Heldr.

1600

↓

0

Med

Polygala carniolica
A. Kern.

1500

↓

500

Bal

Polygala comosa
Schkuhr

2000

↓

0

subMed

Polygala hospita
Heuff.

800

↓

300

Pann-Bal

Polygala major
Jacq.

2000

↓

0

Eur-Sib

Polygala mediterranea
(Chodat) Dalla Torre & Sarnth.

1700

↓

0

subMed

Polygala monspeliaca
L.

700

↓

0

Med

Polygala oxyptera
Rchb.

1700

↓

0

Eur

Polygala rhodopea
(Velen.) Janch.



1600



500

Bal

Polygala sibirica
L.



300



0

Pont-Sib

Polygala supina
Schreb.



700



0

subMed

Polygala vulgaris
L.



1700



0

Eur-Med

Polygonatum latifolium
(Jacq.) Desf.



2000



0

Boreal

Polygonatum multiflorum
(L.) All.



1000



0

Boreal

Polygonatum odoratum
(Mill.) Druce



2000



1000

Eur-Sib

Polygonatum verticillatum
(L.) All.



2900



2000

Eur-As

Polygonum arenastrum
Bureau



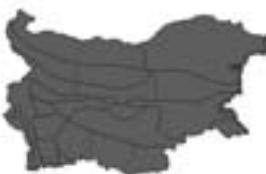
2300



0

Kos

Polygonum aviculare
L.



1200



0

Kos

Polygonum cognatum
Meisn.



300
◻
0

Polygonum rurivagum
Jord. ex Boreau



1000
◻
0

Polygonum maritimum
L.



0
◻
0

Polypodium cambricum
L.



◻
!
Kos

Polygonum mesembryicum
Chrtk



0
◻
0

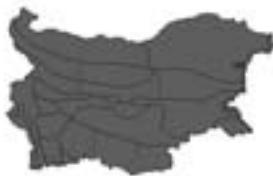
Pont

Polypodium interjectum
Shivas



◻

Polygonum patulum
M. Bieb.



800
◻
0

Boreal

Polypodium mantoniae
Rothm.



◻
Hybr

Polygonum pulchellum
Loisel.



1000
◻
0

subMed

Polypodium vulgare
L.



2000
◻
0

Boreal

Polypogon monspeliensis
(L.) Desf.200
◻
0

Kos

Polypogon viridis
(Gouan) Breistr.

◻

Polystichum aculeatum
(L.) Roth2000
◻
0

Boreal

Polystichum lonchitis
(L.) Roth2700
◻
1100

Boreal

Polystichum setiferum
(Forssk.) Moore1500
◻
0

Kos

Populus alba
L.1000
◻
0

Eur-As

Populus canescens
(Aiton) Sm.1000
◻
0

Eur-Med

Populus nigra
L.700
◻
0

Eur-As

Populus tremula
L.1900
◻
0

subBoreal

Portulaca oleracea
L.1000
◻
0

Adv

Potamogeton acutifolius
Link800
↓
200

Kos

Potamogeton alpinus
Baile.1600
↓
0*Potamogeton berchtoldii*
Fieb.

↓

Potamogeton crispus
L.1000
↓
0

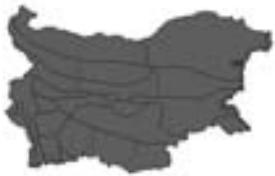
Kos

Potamogeton friesii
Rupr.200
↓
0
!
Kos*Potamogeton gramineus*
L.200
↓
0

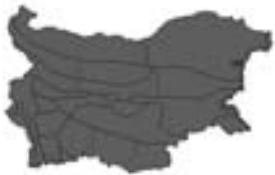
Boreal

Potamogeton lucens
L.1500
↓
0

Boreal

Potamogeton natans
L.1500
↓
0

Boreal

Potamogeton nodosus
Poir.1000
↓
0

Boreal

Potamogeton pectinatus
L.600
↓
0

Kos

Potamogeton perfoliatus
L.1000
◻
0

Kos

Potamogeton polygonifolius
Pourret500
◻
0

Kos

Potamogeton paelongus
Wulfen2000
◻
200

Boreal

Potamogeton pusillus
L.200
◻
0

Kos

Potamogeton trichoides
Cham. & Schlecht.200
◻
0

Eur-As

Potentilla alba
L.2000
◻
700

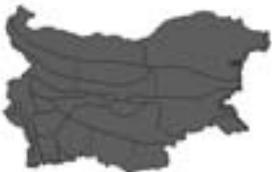
Pann-Pont

Potentilla anserina
L.300
◻
100

Kos

Potentilla apennina
Ten.2800
◻
2000

Ap-Bal

Potentilla argentea
L.1700
◻
0

SPont

Potentilla astracanica
Jacq.1000
◻
100

Pont-Med

Potentilla bornmuelleri
Borbás

1000

↓

50

Pont-Bal

Potentilla chrysanthia
Trevir.

1100

↓

1000

!

Pont-Bal

Potentilla cinerea
Chaix ex Vill.

2200

↓

0

Eur

Potentilla crantzii
(Crantz) Beck ex Fritsch

2700

↓

1800

Arct-Alp

Potentilla detommasii
Ten.

2000

↓

400

subMed

Potentilla emili-popii
Nyár.

300

↓

150

!

Bal

Potentilla erecta
(L.) Raeusch.

2800

↓

0

subBoreal

Potentilla fruticosa
L.

1600

↓

1400

!

Boreal

Potentilla haynaldiana
Janka

2800

↓

1400

Carp-Bal

Potentilla inclinata
Vill.

1000

↓

0

Eur-As

Potentilla laciniosa
Waldst. & Kit. ex Nestl.



1500

↔

0

subMed

Potentilla micrantha
Ramond ex DC.



2000

↔

300

Eur-subMed

Potentilla mollicrinis
(Borbás) Stankov



1000

↔

0

Pont-Med

Potentilla montenegrina
Pant.



1700

↔

1500

!

Bal

Potentilla neglecta
Baumg.



1900

↔

0

subBoreal

Potentilla nicici
Adamović



700

↔

600

!

Bal

Potentilla obscura
Willd.



1700

↔

0

Eur

Potentilla palustris
(L.) Scop.



1600

↔

1400

!

Boreal

Potentilla patula
Waldst. & Kit.



1000

↔

200

Eur

Potentilla pedata
Willd.



1200

↔

0

Med

Potentilla pilosa
Willd.

1800



0

Eur

Potentilla pindicola
(Nyman) Hausskn.

600



150

Pont-Med

Potentilla piroensis
(Borbás) Markova

500



150

Bal

Potentilla regis-borisii
Stoj.

2000



300

Bal

Potentilla reptans
L.

1800



0

Kos

Potentilla rupestris
L.

2000



500

Boreal

Potentilla sulphurea
Lam.

1800



0

subMed

Potentilla supina
L.

1000



150

subBoreal

Potentilla ternata
C. Koch

2600



1400

Carp-Bal

Prangos ferulacea
(L.) Lindl.

300



0

!

Med-OT

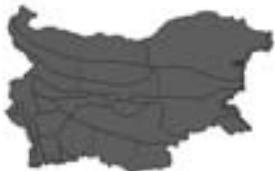
Prenanthes purpurea
L.

2300

↓

1000

Eur-Med

Primula acaulis
(L.) L.

900

↓

0

!

Eur

Primula deorum
Velen.

2800

↓

1900

!

Bul

Primula elatior
(L.) Hill

2800

↓

2200

Eur

Primula farinosa
L.

2600

↓

1600

Eur

Primula frondosa
Janka

2000

↓

900

!

Bul

Primula halleri
J. F. Gmel.

2800

↓

2250

!

Alp-Carp-Bal

Primula minima
L.

2900

↓

2000

Alp-Carp-Bal

Primula veris
L.

2500

↓

0

Eur-Med

Pritzelago alpina
(L.) Kuntze

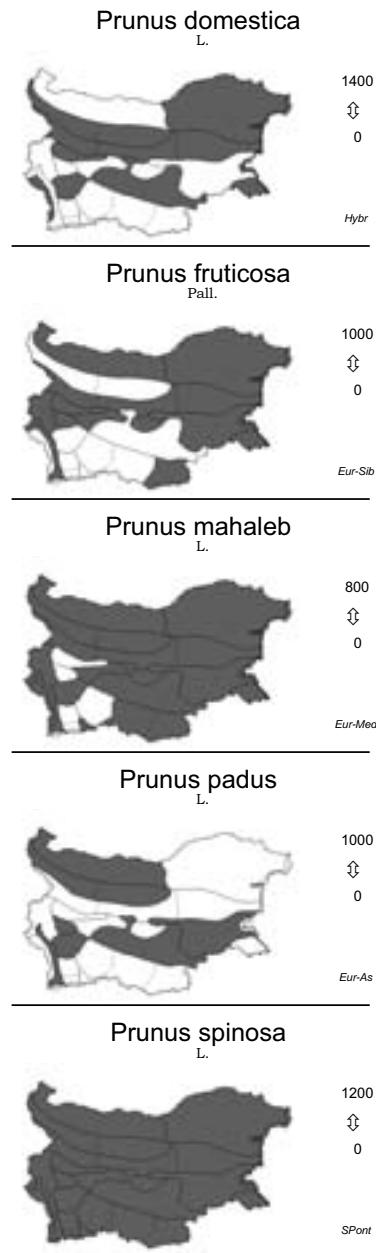
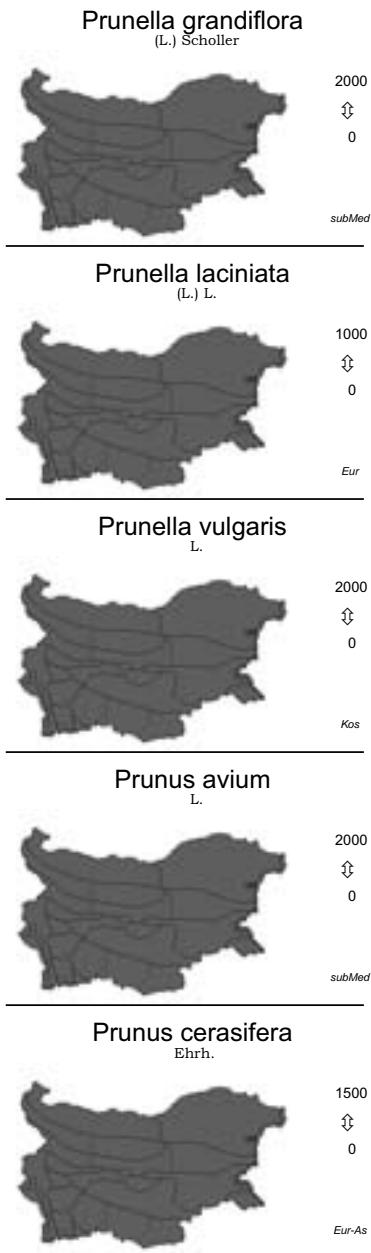
2500

↓

200

!

Alp-Bal



Pseudorchis albida
(L.) A. & D. Löve



2700

□

1200

Arct-Alp

Pseudotsuga menziesii
(Mirb.) Franco



0

□

0

NAm(Adv)

Psilurus incurvus
(Gouan) Schinz & Thell.



500

□

0

subMed

Pteridium aquilinum
(L.) Kuhn



1800

□

0

Kos

Pterocephalus papposus
(L.) Coult.



1000

□

0

Med

Ptilostemon afer
(Jacq.) Greuter



1500

□

0

Med

Puccinellia festuciformis
(Host) Parl.



50

□

0

Sib

Puccinellia hauptiana
(Trin.) Krecz.



200

□

0

Puccinellia convoluta
(Hornem.) P.Fourn.



500

□

0

subMed-Sib

Puccinellia distans
(L.) Parl.



200

□

0

Boreal

Puccinellia limosa
(Schur) Holmb.



200

0

Pont-Pann

Puccinellia salinaria
(Simonk.) Holmb.

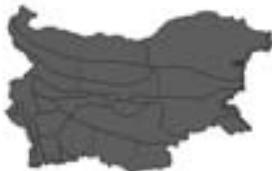


0

0

Med-Sib

Pulicaria dysenterica
(L.) Bernh.



1000

0

Eur-Med

Pulicaria vulgaris
Gaertn.



1000

0

Eur-As

Pulmonaria angustifolia
L.



2900

300

subMed

Pulmonaria mollis
Wulfen ex Hornem.



2900

0

300

Eur

Pulmonaria obscura
Dumort.



1000

0

subMed

Pulmonaria officinalis
L.



2900

0

Eur

Pulmonaria rubra
Schott



2900

0

600

Carp-Bal

Pulsatilla halleri
(All.) Willd.



1400

300

!

Alp-Carp-Bal

Pulsatilla montana
(Hoppe) Rchb.

700

↔

0

Eur

Pulsatilla pratensis
(L.) Mill.

800

↔

0

Eur

!

Pulsatilla slaviankae
(Zimm.) Jordanov & Kožuharov

1500

↔

1000

!

Bal

Pulsatilla vernalis
(L.) Mill.

2200

↔

1700

!

Eur

Pycreus flavescens
(L.) Rchb.

1000

↔

0

Kos

Pycreus glaber
(L.) Hayek

1000

↔

0

Eur-As

Pycreus globosus
(All.) Rchb.

150

↔

150

Kos

Pycreus glomeratus
(L.) Hayek

200

↔

0

Eur-As

Pycreus longus
(L.) Hayek

1000

↔

0

Kos

Pycreus rotundus
(L.) Hayek

1300

↔

0

Kos

Pycreus serotinus
(Rottb.) Hayek

500

↔

0

Eur-As

Pyracantha coccinea
M. Roem.

500

↔

50

!

Pont-Med

Pyrola chlorantha
Sw.

2100

↔

1300

Boreal

Pyrola media
Sw.

1900

↔

1200

Eur-Sib

Pyrola minor
L.

2900

↔

1000

Boreal

Pyrola rotundifolia
L.

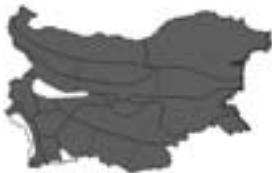
2000

↔

1750

!

Boreal

Pyrus amygdaliformis
Vill.

1200

↔

0

Med

Pyrus bulgarica
Khutath. & Sachok.

1000

↔

0

Bal

Pyrus elaeagrifolia
Pall.

1500

↔

0

Med

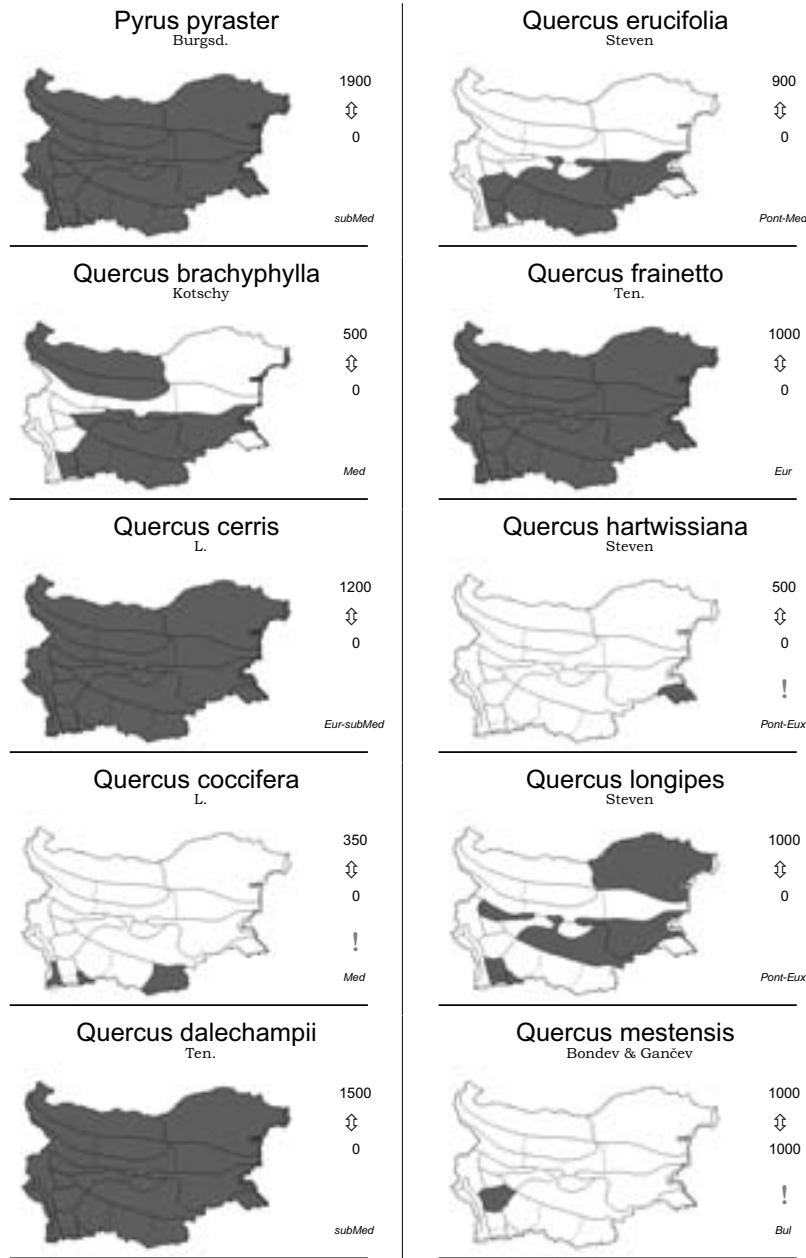
Pyrus nivalis
Jacq.

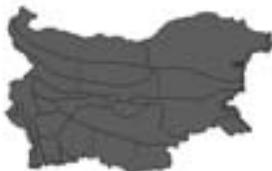
1200

↔

1000

Eur-As



Quercus pedunculiflora
C. Koch

800

↔

0

Pont-Med

Quercus petraea
(Mattuschka) Liebl.

1300

↔

0

Eur

Quercus polycarpa
Schur

1200

↔

0

SEux

Quercus pubescens
Willd.

1500

↔

0

Eur-subMed

Quercus robur
L.

500

↔

0

subMed

Quercus thracica
Stef. & Nedjalkov

300

↔

300

!

Bul (Hybr)

Quercus trojana
Webb

1000

↔

900

Bal

Quercus virginiana
(Ten.) Ten.

1000

↔

0

subMed

Queria hispanica
L.

1000

↔

0

subMed

Radiola linoides
Roth

1200

↔

0

Eur-As

Ramonda serbica
Pančić

1000

↓

600

!

Bal

Ranunculus acris
L.

2000

↓

0

Kos

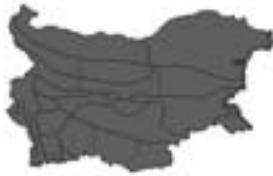
Ranunculus aquatilis
L.

2300

↓

0

Kos

Ranunculus arvensis
L.

1000

↓

0

Eur-Med

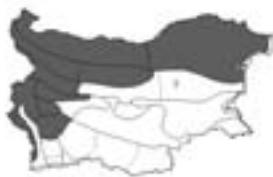
Ranunculus auricomus
L.

1000

↓

0

Eur-Med

Ranunculus bulbosus
L.

2000

↓

1000

Eur

Ranunculus carinthiacus
Hoppe

2500

↓

1500

Eur

Ranunculus cassubicus
L.

800

↓

0

Eur

Ranunculus chius
DC.

700

↓

0

Pont-Med

Ranunculus circinatus
Sibth.

↓

Ranunculus crenatus
Waldst. & Kit.



2600

↓

1600

Alp-Carp-Bal

Ranunculus fallax
(Wimm. & Grab.) A. Kern.



1500

↓

0

Eur

Ranunculus ficaria
L.



2000

↓

0

Eur-Sib

Ranunculus flammula
L.



1700

↓

500

Eur-Med

Ranunculus fontanus
C. Presl



2000

↓

0

Med

Ranunculus gracilis
E. D. Clarke



800

↓

0

Med

Ranunculus hayekii
Dörf.



1700

↓

1400

Bal

Ranunculus illyricus
L.



1500

↓

0

Eur-subMed

Ranunculus incomparabilis
Janka



2300

↓

1300

Bal

Ranunculus lanuginosus
L.



1500

↓

0

Eur

Ranunculus lateriflorus
DC.

800

◻

0

Med-CAs

Ranunculus neapolitanus
Ten.

1000

◻

0

Med

Ranunculus lingua
L.

1500

◻

0

Eur-As

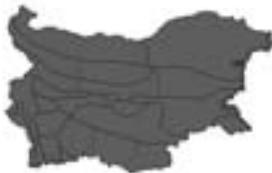
Ranunculus nemorosus
DC.

2000

◻

0

Eur

Ranunculus millefoliatus
Vahl

800

◻

0

subMed

Ranunculus ophioglossifolius
Vill.

1700

◻

0

subMed

Ranunculus montanus
Willd.

◻

Ranunculus oxyspermus
M. Bieb.

1000

◻

0

Med-CAs

Ranunculus muricatus
L.

800

◻

0

Med

Ranunculus pedatus
Waldst. & Kit.

600

◻

0

Eur-As

Ranunculus peltatus
Schrank

2300

↔
0

Kos

Ranunculus penicillatus
(Dumort.) Bab.

1000

↔
0

Ranunculus platanifolius
L.

2200

↔
1200

Eur

Ranunculus polyanthemos
L.

2000

↔
0

Eur-subMed

Ranunculus pseudomontanus
Schur

1700

↔
1500

Eur

Ranunculus psilostachys
Griseb.

1600

↔
0

subMed

Ranunculus repens
L.

2000

↔
0

subMed

Ranunculus rionii
Lagger

50

↔
0

Eur-As

Ranunculus rumelicus
Griseb.

1200

↔
300

Mod

Ranunculus sardous
Crantz

1000

↔
0

Eur-Med

Ranunculus sartorianus
Boiss. & Heldr.



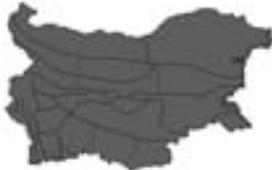
2500

↓

1000

subMed

Ranunculus sceleratus
L.



1000

↓

0

Eur-Med

Ranunculus serbicus
Vis.



1500

↓

0

Ap-Bal

Ranunculus sphaerospermus
Boiss. & Blanche



100

↓

0

Med-Bal

Ranunculus sprunerianus
Boiss.



1500

↓

500

subMed

Ranunculus stojanovii
Delip.



1250

↓

200

!

Bul

Ranunculus strigulosus
Schur



1200

↓

500

Pont-subMed

Ranunculus trichophyllus
Chaix



2500

↓

300

Kos

Ranunculus velutinus
Ten.



800

↓

0

Med

Ranunculus villosus
DC.

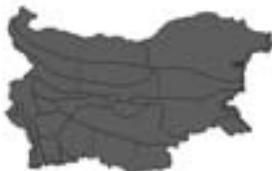


500

↓

0

subMed

Raphanus raphanistrum
L.

1500



0

Eur-Sib

Reseda lutea
L.

900



0

subBoreal

Rapistrum perenne
(L.) All.

500



0

Eur

Reseda luteola
L.

800



0

Eur-Med

Rapistrum rugosum
(L.) All.

500



0

Med-CAs

Rhagadiolus stellatus
(L.) Gaertn.

500



0

Med

Reichardia picroides
(L.) Roth

200



0

Med

Rhamnus alpinus
L.

1400



600

Med

Reseda inodora
Rchb.

500



0

Eur-Med

Rhamnus catharticus
L.

1200



0

Eur-As

Rhamnus rhodopeus
Velen.



500
↓
200

Bal

Rhamnus saxatilis
Jacq.



1200
↓
0

Eur-Med

Rheum rhaboticum
L.



2400
↓
1500

Bul

Rhinanthus alpinus
Baumg.



2900
↓
2000

Alp-Carp-Bal

Rhinanthus angustifolius
C. C. Gmel.



2000
↓
1000

Eur

Rhinanthus gracilis
Schur



1500
↓
1500

Rhinanthus javorkae
São



2900
↓
2000

Bul

Rhinanthus minor
L.



2000
↓
0

Eur-Sib

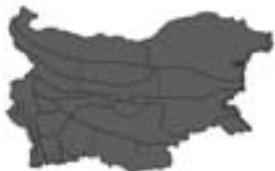
Rhinanthus rumelicus
Velen.



2900
↓
1000

Eur-Med

Rhinanthus wagneri
Degen

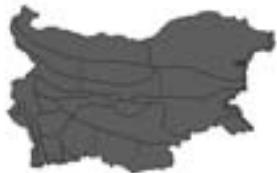


2900
↓
1000

subMed

Rhodax alpestris
(Jacq.) Fuss2500
↓
1400

Alp-Med

Rhodax canus
(L.) Fuss2800
↓
50

Pont

Rhodiola rosea
L.2600
↓
1800

Boreal

Rhododendron myrtifolium
Schott & Kotschy2500
↓
2000

Carp-Bal

Rhododendron ponticum
L.300
↓
150

Eux

Rhus coraria
L.700
↓
0

Med-As

Rhynchoscyrus elephas
(L.) Griseb.2000
↓
1000

!

subMed

Ribes alpinum
L.2000
↓
1200

Eur

Ribes multiflorum
Kit. ex Roem. & Schult.1200
↓
900

Ap-Bal

Ribes nigrum
L.1800
↓
1600

Arct-Alp

Ribes petraeum
Wulfen

2100

↓

1200

subMed

Ribes uva-crispa
L.

1500

↓

750

subMed

Rindera umbellata
(Waldst. & Kit.) Bunge

500

↓

0

Pont

Robinia pseudoacacia
L.

1000

↓

0

NAm (Adv)

Rochelia disperma
(L. f.) K. Koch

200

↓

100

Med-CAs

Roemeria hybrida
(L.) DC.

500

↓

0

Med-CAs

Romulea bulbocodium
(L.) Sebast. & Mauri

500

↓

0

!

Med

Romulea linaresii
Parl.

300

↓

0

!

EMed

Rorippa amphibia
(L.) Besser

500

↓

0

Eur-As

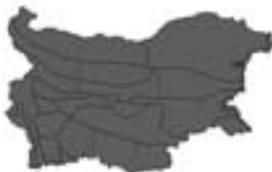
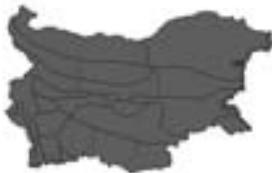
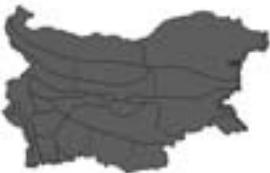
Rorippa armoratioides
(Tausch) Fuss

500

↓

0

Hybr

Rorippa austriaca
(Crantz.) Besser1000
◻
0*Rorippa thracica*
(Griseb.) Fritsch1600
◻
0*Rorippa palustris*
(L.) Besser1000
◻
0*Rosa agrestis*
Savi1000
◻
0*Rorippa prolifera*
(Heuff.) Neirr.1000
◻
0*Rosa arvensis*
Huds.1000
◻
50*Rorippa pyrenaica*
(L.) Rchb.1000
◻
0*Rosa caesia*
Sm.2000
◻
300*Rorippa sylvestris*
(L.) Besser1000
◻
0*Rosa canina*
L.2000
◻
0

Rosa caryophyllacea
Besser1000
◻
02000
◻
1000*Rosa glauca*
Pourret

subMed

Rosa corymbifera
Borkh.1000
◻
01200
◻
800

Eur

Rosa dumalis
Bechst.1500
◻
0

subMed

Eur-As

Rosa heckeliana
Tratt.

Eur

Rosa jundzillii
Besser1800
◻
0

Eur

Rosa elliptica
Tausch1500
◻
5001200
◻
0

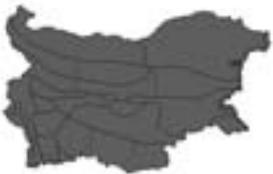
subMed

subMed

Rosa gallica
L.1000
◻
01500
◻
400

Eur-Med

Eur-Med

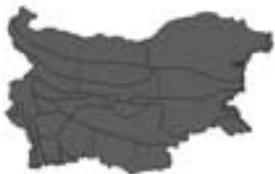
Rosa micrantha
Borrer ex Sm.

subMed



Eur-Med

Rosa myriacantha
DC.ex Lam. & DC.



1500



300

subMed

Rosa nitidula
Besser



1000



0

Eur

Rosa obtusifolia
Desv.



1200



0

Eur

Rosa oxyodon
Boiss.



1600



1000

Med

Rosa pendulina
L.



2500



1000

subMed

Rosa pimpinellifolia
L.



1500



1000

subMed

Rosa pulverulenta
M. Bieb.



2000



800

Med

Rosa pumila
Jacq.



1600



100

subMed

Rosa tomentosa
Sm.



1200



100

subMed

Rosa turcica
Rouy



1600

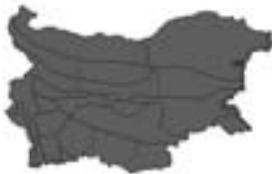


0

Med

Rosa villosa
L.1500
◻
1000

subMed

Rosa vosagiaca
Desp.2000
◻
500

subMed

Rubia tinctorum
L.1000
◻
0

Med

Rubus anoplocladus
Sudre1500
◻
600

Eur

Rubus apiculatus
Weihe & Nees1100
◻
500

Eur

Rubus caesius
L.1600
◻
0

Eur-As

Rubus canescens
DC.1800
◻
0

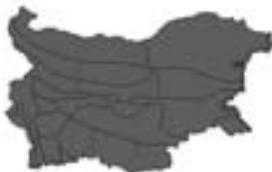
Eur-Med

Rubus cerasifolius
Sudre1100
◻
7001800
◻
200

Eur

Rubus condensatus
P. J. Müll.1400
◻
900*Rubus crassus*
Holuby

Rubus discolor
Weihe & Nees



1400

↔

0

subMed

Rubus euryanthemus
W. Watson



1500

↔

1400

Eur

Rubus finitimus
Sudre



1000

↔

700

Eur

Rubus fragariiflorus
P. J. Müll.



1600

↔

800

Eur

Rubus geniculatus
Kaltenb.



300

↔

0

Eur

Rubus glandulosus
Bellardi



1400

↔

1000

subMed

Rubus guentheri
Weihe & Nees



1400

↔

900

Eur

Rubus hebecaulis
Sudre



500

↔

300

Eur

Rubus hercynicus
G. Braun ex Focke



1000

↔

900

!

Eur

Rubus hirtus
Waldst. & Kit.



1400

↔

800

subMed

Rubus humifusus
Weihe & Nees



500

400

Eur

Rubus idaeus
L.



2200

100

subBoreal

Rubus incultus
Wirtg. ex Focke



1500

400

Eur

Rubus koehleri
Weihe & Nees



600

400

Eur

Rubus lloydianus
Genev.



1600

0

Eur

Rubus macrophyllus
Weihe & Nees



600

600

!

Eur

Rubus macrostachys
P. J. Müll.



700

400

Eur

Rubus melanoxylon
P. J. Müll. & Wirtg. ex Genev.



1800

1500

Eur

Rubus minutidentatus
Sudre



1400

800

Eur

Rubus minutiflorus
P. J. Müll.



1400

800

Eur

Rubus miostilus
Boulay

1200

↓

800

subMed

Rubus oblongoobovatus
Markova

1400

↓

1400

Bul

Rubus pectinatus
Sudre & Grav.

1000

↓

900

Eur

Rubus posoniensis
Sabr.

1200

↓

700

Eur

Rubus radula
Weihe ex Boenn.

1100

↓

800

Eur

Rubus rivularis
Wirtg. & P. J. Müll.

1000

↓

200

Eur

Rubus sanguineus
Friv.

600

↓

0

Pont-Med

Rubus saxatilis
L.

1900

↓

1000

Eur-As

Rubus scaber
Weihe & Nees

1500

↓

900

Eur

Rubus schleicheri
Weihe ex Tratt.

1400

↓

900

Eur

Rubus serpens
Weihe ex Lej. & Court.



1400

↓

800

Eur

Rubus spinosulus
Sudre



1000

↓

900

Eur

Rubus tereticaulis
P. J. Mull.



1400

↓

800

Eur

Rubus thysanthus
Focke



1200

↓

200

Eur

Rubus thysiflorus
Weihe & Nees



700

↓

700

!

Eur

Rubus trachyadenes
Sudre



1400

↓

800

Eur

Rubus vepallidus
Sudre



1100

↓

800

Eur

Rumex acetosa
L.



2300

↓

0

Boreal

Rumex acetosella
L.



2500

↓

0

Eur-subMed

Rumex alpinus
L.



2200

↓

1400

Alp-Carp-Bal

Rumex aquaticus
L.1800
◻
0

Eur-As

Rumex arifolius
All.2100
◻
1500

subBoreal

Rumex confertus
Willd.500
◻
0

Eur-As

Rumex conglomeratus
Murr.2000
◻
0

Eur-As

Rumex crispus
L.1000
◻
0

Boreal

Rumex cristatus
DC.100
◻
0*Rumex dentatus*
L.300
◻
0

Med-CAs

Rumex hydrolapathum
Huds.400
◻
0

Eur-Med

Rumex kernerii
Borbás1500
◻
0

subMed

Rumex maritimus
L.50
◻
0

Eur-As

Rumex obtusifolius
L.

2000

↔
0

Eur-Med

Rumex palustris
Sm.300
↔
0

Eur-As

Rumex patientia
L.300
↔
0

Eur-As

Rumex pulcher
L.2000
↔
0

Eur-As

Rumex sanguineus
L.1000
↔
0

Eur-Med

Rumex scutatus
L.2700
↔
1800

subMed

Rumex stenophyllum
Ledeb.200
↔
0

Eur-As

Rumex tenuifolius
(Wallr.) A. Löve1000
↔
0

Eur

Rumex thyrsiflorus
Fingerh.1000
↔
0

Eur-As

Rumex tuberosus
L.1500
↔
0

Boreal

Ruppia cirrhosa
(Petagna) Grande



0
↔
0

Kos

Ruppia maritima
L.



0
↔
0

Kos

Ruscus aculeatus
L.



1000
↔
0

SPont

Ruscus hypoglossum
L.



1000
↔
0

Pont

Ruta graveolens
L.



400
↔
0

Pont-Med

Sagina apetala
Ard.



600
↔
0

subMed

Sagina maritima
Don



0
↔
0

Eur-Med

Sagina nodosa
(L.) Fenzl



↔

Sagina procumbens
L.



2100
↔
0

Boreal

Sagina saginoides
(L.) Karst.



2900
↔
1500

Boreal

Sagittaria latifolia
Willd.

0

↔

0

Adv

Sagittaria sagittifolia
L.

800

↔

0

Eur-As

Salicornia europaea
L.

0

↔

0

Eur-As

Salicornia ramosissima
Woods

200

↔

0

Eur

Salix alba
L.

1000

↔

0

Eur-As

Salix appendiculata
Vill.

2700

↔

2500

Alp-Bal

Salix aurita
L.

1600

↔

1200

Eur

Salix caprea
L.

2500

↔

0

subBoreal

Salix cinerea
L.

1600

↔

0

Eur-As

Salix eleagnos
Scop.

1000

↔

0

subMed

Salix fragilis
L.1700
◻
0

Eur-As

Salix hastata
L.2500
◻
2500

Eur-As

Salix herbacea
L.2900
◻
2400

Boreal

Salix lapponum
L.2600
◻
1500

Eur-Sib

Salix pentandra
L.1700
◻
1700

Eur-Sib

Salix purpurea
L.1600
◻
0

Eur-Med-CAs

Salix reticulata
L.2900
◻
2500

Arct-Alp

Salix retusa
L.2900
◻
2500

!

Alp

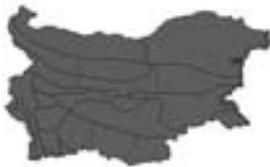
Salix rosmarinifolia
L.650
◻
650

!

Eur-As

Salix silesiaca
Willd.2500
◻
1200

Carp-Bal

Salix triandra
L.1600
◻
0

subBoreal

Salix waldsteiniana
Willd.2500
◻
1500

Alp-Carp-Bal

Salix xanticola
Christensen500
◻
0
!

Bal

Salsola rutenica
Iljin600
◻
0

Poni-CAs

Salsola soda
L.200
◻
0

Eur-As

Salvia aethiopsis
L.1000
◻
0

Eur-As

Salvia amplexicaulis
Lam.2000
◻
0

Bal-Dac

Salvia argentea
L.1000
◻
0

Med

Salvia austriaca
Jacq.500
◻
0

Eur

Salvia forskahlei
L.800
◻
100

SEUx

Salvia glutinosa
L.2500
◻
1000

Eur-As

Salvia nemorosa
L.2000
◻
0

Eur-OT

Salvia nutans
L.1000
◻
0

Eur-Sib

Salvia officinalis
L.300
◻
0

Adv

Salvia pinnata
L.160
◻
160

Med

Salvia pratensis
L.1000
◻
0

Eur-Med

Salvia ringens
Sm.1000
◻
0

Bal

Salvia scabiosifolia
Lam.200
◻
200

Pont

Salvia sclarea
L.1000
◻
0

Med-As

Salvia tomentosa
Mill.1000
◻
0

subMed

Salvia verbenaca
L.

1000



200

subMed

Salvia verticillata
L.

1400



0

subMed

Salvia virgata
Jacq.

1000



0

Med-CAs

Salvia viridis
L.

1000



0

Pont-Med

Salvinia natans
(L.) All.

2000



0

!

Boreal

Sambucus deborensis
(Košanin) Košanin

1500



50

Bal

Sambucus ebulus
L.

1700



0

Eur-Med

Sambucus nigra
L.

1700



0

Eur-Med

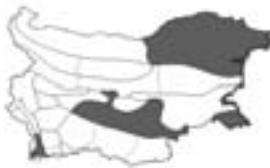
Sambucus racemosa
L.

1900



0

Boreal

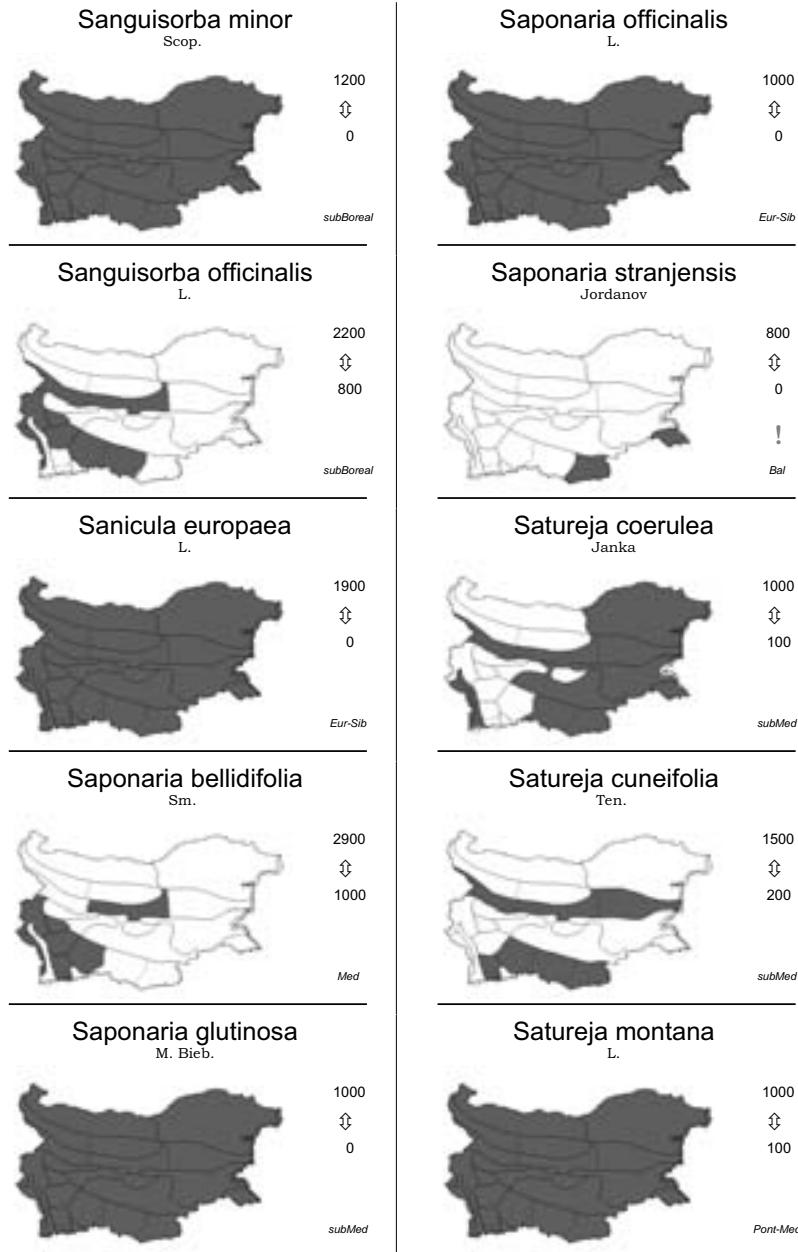
Samolus valerandii
L.

200



0

Kos



Satureja pilosa
Velen.

1500

↓
200

Bal

Satureja rumelica
Velen.

400

↓
100

Bul

Saussurea discolor
(Willd.) DC.

2800

↓
2500

!

Alp

Saxifraga adscendens
L.

2900

↓
1600

Boreal

Saxifraga aizoides
L.

1250

↓
1250

Boreal

Saxifraga androsacea
L.

2900

↓
2200

!

Eur-Sib

Saxifraga bryoides
L.

2900

↓
1800

Alp-Med

Saxifraga bulbifera
L.

1500

↓
100

subMed

Saxifraga carpatica
Rchb.

2700

↓
2350

Carp-Bal

Saxifraga exarata
Vill.

2900

↓
2000

Eur-Anat

Saxifraga ferdinandi-coburgi
Kellerer & Sünd.2900
↓
900

Bal

Saxifraga graeca
Boiss.1900
↓
100

Ap-Bal

Saxifraga luteo-viridis
Schott & Kotschy2900
↓
900

Carp-Bal

Saxifraga marginata
Sternb.2000
↓
900

Alp-Carp-Bal

!

Saxifraga mollis
Sm.500
↓
0

Bal-Anat

!

Saxifraga oppositifolia
L.2900
↓
2300

Arct-Alp

Saxifraga paniculata
Mill.2500
↓
800

Eur-Am

Saxifraga pedemontana
All.2900
↓
2000

Alp-Ap-Carp-Ba

Saxifraga retusa
Gouan2900
↓
2500

Alp-Ap-Carp-Ba

Saxifraga rotundifolia
L.1900
↓
0

subMed

Saxifraga sancta
Griseb.

2900



2000

Bal

Saxifraga sempervivum
C. Koch

1800



400

Bal

Saxifraga spruneri
Boiss.

2900



1900

Bal

Saxifraga stellaris
L.

2500



1800

Boreal

Saxifraga stribrnyi
(Velen.) Podp.

2200



500

Bal

Saxifraga tridactilites
L.

1200



0

subBoreal

Scabiosa argentea
L.

1000



0

Bal-Anat

Scabiosa atropurpurea
L.

1000



0

Med

Scabiosa balcanica
Velen.

2900



2000

Bal

Scabiosa columbaria
L.

2900



1000

Eur-Med

Scabiosa cosmoides
Boiss.



1000
↓
0

Bal-Anat

Scabiosa hispidula
Boiss.



1000
↓
0

Med

Scabiosa lucida
Vill.



2900
↓
2000

Alp-Carp

Scabiosa micrantha
Desf.



1000
↓
0

Pont-Med

Scabiosa ochroleuca
L.



2900
↓
1000

Eur-Sib

Scabiosa rhodopensis
Stoj. & Stef.



1500
↓
500

Bal

Scabiosa rotata
M. Bieb.



1000
↓
0

Med

Scabiosa sicula
L.



1000
↓
0

Med

Scabiosa trinifolia
Friv.



2900
↓
0

Bal

Scabiosa webbiana
D. Don



2900
↓
1800

Bal

Scandix australis
L.**Scandix pecten-veneris**
L.**Schivereckia doerfleri**
(Wettst.) Bornm.**Schoenoplectus lacustris**
(L.) Palla**Schoenoplectus litoralis**
(L.) Palla**Schoenoplectus mucronatus**
(L.) Palla**Schoenoplectus tabernemontanii**
(C. C. Gmel.) Palla**Schoenoplectus triquetus**
(L.) Palla**Schoenus ferrugineus**
L.**Schoenus nigricans**
L.

Scilla autumnalis
L.

1000



0

Pont-subMed

Scilla bifolia
L.

2000



1000

Pont-subMed

Scilla bithynica
Boiss.

1000



0

Pont

Scirpus sylvaticus
L.

1500



0

subBoreal

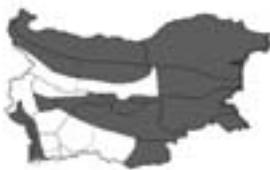
Scleranthus annuus
L.

1600



0

Eur-Sib

Scleranthus collinus
Hornung ex Opiz

300



0

subMed

Scleranthus dichotomus
Schur

1500



0

subMed

Scleranthus neglectus
Rochel ex Baumg.

2900



1000

subMed

Scleranthus perennis
L.

1500



0

Eur-Med

Scleranthus polycarpos
L.

1000



0

subMed

Scleranthus uncinatus
Schur



2700

◻

1000

subMed

Sclerochloa dura
(L.) P. Beauv.



800

◻

0

Eur-As

Scolymus hispanicus
L.



1000

◻

0

Med

Scolymus maculatus
L.



500

◻

0

Med

Scorpiurus subvillosus
L.



0

◻

0

Pont-Med

Scorzonera austriaca
Willd.



1600

◻

0

Eur-Sib

Scorzonera cana
(C. A. Mey.) Hoffm.



1000

◻

0

Med

Scorzonera hispanica
L.



1000

◻

0

Med

Scorzonera laciniata
L.



1000

◻

0

Med

Scorzonera lanata
(L.) Hoffm.



1000

◻

0

Med

Scorzonera mollis
M. Bieb.1000
◻
0

Med

Scorzonera parviflora
Jacq.300
◻
0
!
Med*Scorzonera purpurea*
L.2800
◻
2000
subMed

subMed

Scrophularia aestivalis
Griseb.2500
◻
1000
Bal

Bal

Scrophularia bulgarica
(Stoj.) Peev2500
◻
1000
Bul

Bul

Scrophularia canina
L.1000
◻
0

Eur-Med

Scrophularia nodosa
L.1500
◻
0

subBoreal

Scrophularia scopolii
Hoppe ex Pers.1800
◻
0

Eur-Med

Scrophularia umbrosa
Dumort.1000
◻
0

Eur-As

Scutellaria albida
L.500
◻
0

subMed

Scutellaria alpina
L.

2700

□

900

Alp-Med

Scutellaria altissima
L.

1200

□

0

Eur

Scutellaria columnae
All.

1500

□

0

subMed

Scutellaria galericulata
L.

2000

□

0

Boreal

Scutellaria hastifolia
L.

1000

□

0

Eur-Sib

Scutellaria orientalis
L.

1000

□

0

Pont-Med

Scutellaria velenovskyi
Rech. f.

500

□

200

Pont-Med

Secale montanum
Guss.

2500

□

1500

Med

Secale rhodopaeum
Delip.

1500

□

900

Bul

Secale sylvestre
Host

100

□

0

Eur-As

Securigera securidaca
(L.) Degen & Dörfel.



100
◻
0

Med

Sedum acre
L.



2000
◻
0

Eur-Med

Sedum aetnense
Tineo



400
◻
0

Pont-Med

Sedum album
L.



2500
◻
0

subMed

Sedum alpestre
Vill.



2500
◻
1250

subMed

Sedum annum
L.



2200
◻
0

Eur-Sib

Sedum anopetalum
DC.



1800
◻
0

subMed

Sedum atratum
L.



2900
◻
1700

Alp-Carp-Bal

Sedum caespitosum
(Cav.) DC.



800
◻
0

Med

Sedum cepaea
L.



2000
◻
800

subMed

Sedum confertiflorum
Boiss.



300
↔
300

Bal-Anat

Sedum dasypHYLLUM
L.



1200
↔
0

subMed

Sedum hispanicum
L.



1500
↔
0

Eur-Med

Sedum kostovii
Stef.



2000
↔
0
!

Bul

Sedum magellense
Ten.



2000
↔
1500
!
Med

Sedum maximum
(L.) Suter



1500
↔
0

subBorel

Sedum pallidum
M. Bieb.



1000
↔
0

Med

Sedum rubens
L.



800
↔
0

Eur-Med

Sedum sexangulare
L.



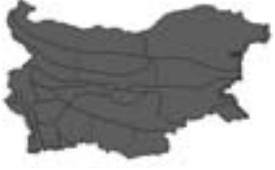
500
↔
500
!

Eur

Sedum stefco
Stef.



1000
↔
0
!
Bal

Sedum tenuifolium (Sm.) Strobl		Selaginella selaginoides (L.) Link	
	800 ↔ 0 <i>subMed</i>		2800 ↔ 2200 <i>Boreal</i>
Sedum tuberiferum Stoj. & Stef.	1500 ↔ 0 <i>Bal</i>	Selinum carvifolia (L.) L.	1600 ↔ 1000 <i>Eur-Sib</i>
			
Sedum urvillei DC.	1000 ↔ 0 <i>Eur</i>	Sempervivum ciliosum Craib	1000 ↔ 0 ! <i>Bal</i>
			
Sedum zollikoferi F. Hernm. & Stef.	1700 ↔ 800 ! <i>Bul</i>	Sempervivum erythraeum Velen.	2700 ↔ 1000 <i>Bal</i>
			
Selaginella helvetica (L.) Spring	2400 ↔ 400 <i>subBoreal</i>	Sempervivum leucanthum Pančić	2000 ↔ 800 <i>Bul</i>
			

Sempervivum marmoreum
Griseb.



2700
↓
300

subMed

Sempervivum zeleborii
Schott



700
↓
0

subMed

Senecio abrotanifolius
L.



2800
↓
1500

Carp-Bal

Senecio aquaticus
Hill



0
↓
0

Eur

Senecio doria
L.



2000
↓
0

Eur

Senecio doronicum
(L.) L.



2700
↓
1800

Carp-Bal

Senecio erucifolius
L.



2900
↓
1000

Eur-As

Senecio jacobaea
L.



2900
↓
1000

Eur-Med

Senecio macedonicus
Griseb.



2500
↓
1500

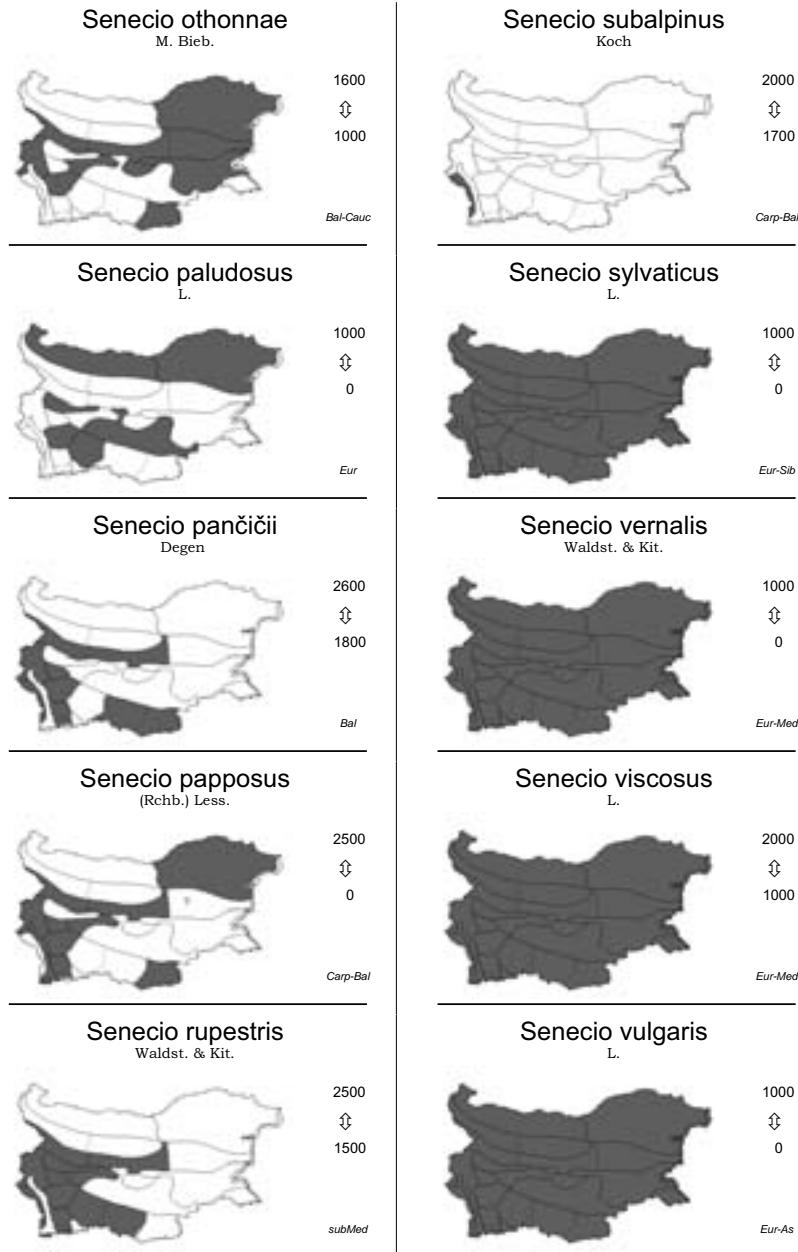
Bal

Senecio nemorensis
L.



2800
↓
1500

Boreal



Serapias vomeracea
(Burm.) Briq.



400

↔

0

!

Med

Serratula bulgarica
Acht. & Stoj.



1000

↔

0

!

Carp-Bal

Serratula radiata
(Waldst. & Kit.) M. Bieb.



1000

↔

0

SPont

Serratula tinctoria
L.



1500

↔

1000

Eur-Sib

Seseli annuum
L.



1700

↔

900

Eur-As

Seseli bulgaricum
P. W. Ball



1800

↔

1000

Bul

Seseli degenii
Urum.



800

↔

600

!

Bul

Seseli libanotis
(L.) Koch



1600

↔

500

Eur-Sib

Seseli pallasi
Besser



1000

↔

0

Eur

Seseli peucedanoides
(M. Bieb.) Koso-Pol.



1700

↔

900

Med-OT

Seseli rhodopaeum
Velen.



1800
♂
200

Bul

Seseli rigidum
Waldst. & Kit.



2500
♂
0

subMed

Seseli tortuosum
L.



500
♂
0

subMed

Sesleria alba
Sm.



100
♂
0

Sesleria argentea
(Savi) Savi



200
♂
0

Sesleria automnalis
(Scop.) F. W. Schultz



200
♂
0

Sesleria bielzii
Schur



2900
♂
1000

Carp-Bal

Sesleria caerulea
(L.) Ard.



1000
♂
0

Eur

Sesleria coeruleans
Friv.



1000
♂
0

Carp-Bal

Sesleria comosa
Velen.



2900
♂
1000

Bal

Sesleria filifolia
Hoppe

800

↓

500

Bal

Sesleria korabensis
(Kumm. & Jav.) Deyl

2900

↓

1500

!

Bal

Sesleria latifolia
(Adamović) Degen

1500

↓

0

Bal

Sesleria rigida
Heuffel ex Rchb.

1500

↓

0

Carp-Bal

Sesleria robusta
Schott, Nym. & Kotschi

2000

↓

1000

360

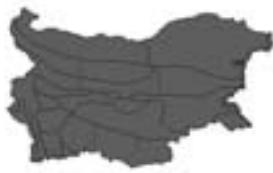
Sesleria uliginosa
Opiz

400

↓

200

CEur

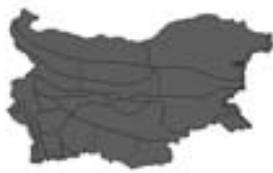
Setaria italica
(L.) P. Beauv.

400

↓

0

subBoreal

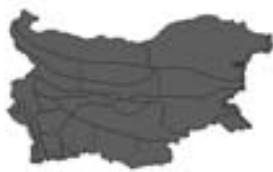
Setaria pumila
(Poir.) Schult.

800

↓

0

Kos

Setaria verticillata
(L.) P. Beauv.

800

↓

0

Kos

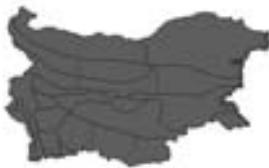
Setaria viridis
(L.) P. Beauv.

800

↓

0

Boreal

Sherardia arvensis
L.1500
◻
0

Med

Sibbaldia parviflora
Willd.2000
◻
2000

Anat-Bal

Sibbaldia procumbens
L.2800
◻
2000

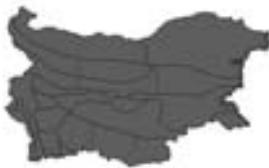
Boreal

Sicyos angulatus
L.400
◻
0

NAm (Adv)

Sideritis lanata
L.500
◻
200

Med

Sideritis montana
L.1500
◻
0

subMed

Sideritis scardica
Griseb.2000
◻
1000

Bal

Sideritis syriaca
L.400
◻
0

Med

Sieglungia decumbens
(L.) Bernh.100
◻
0

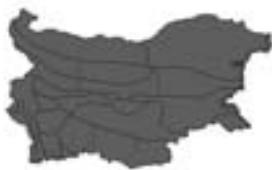
Eur-Med

Silaum silaus
(L.) Schinz & Thell.1800
◻
800

Eur

Silene acaulis
(L.) Jacq.2900
⇓
2200

Arct-Alp

Silene alba
(Mill.) E. Krause1500
⇓
0

Eur-Sib

Silene alpina
(Lam.) E. Thomas1000
⇓
800*Silene armeria*
L.1500
⇓
300

Eur

Silene asterias
Griseb.2900
⇓
1000

Bal

Silene balcanica
(Urum.) Hayek2900
⇓
1500

Bal

Silene borysthеника
(Gruner) Walters200
⇓
0

Pont-Sib

Silene bupleuroides
Chater & Walters2400
⇓
0

Pont-subMed

Silene caliacrae
Jordanov & Panov50
⇓
0

Bul

Silene chlorantha
(Willd.) Ehrh.700
⇓
0

Eur-Sib

Silene ciliata
Pourret

2400

□

1800

Alp-Med

Silene compacta
Fisch.

800

□

0

Med

Silene conica
L.

1100

□

0

subMed-As

Silene cretica
L.

500

□

0

Med

Silene csereii
Baumg.

1100

□

300

Bal-Dac

Silene densiflora
D'Urv.

500

□

0

subMed

Silene dichotoma
Ehrh.

700

□

0

Eur-Med

Silene dioica
(L.) Clairv.

1000

□

0

Eur-As

Silene euxina
(Rupr.) Hand.-Mazz.

0

□

0

Pont

Silene exaltata
Friv.

□

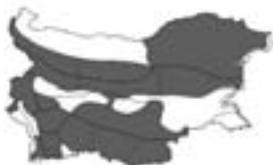
Silene fabariooides
Hausskn.



2200
♂
500

Bal

Silene flavescens
Waldst. & Kit.



1600
♂
0

Carp-Bal

Silene frivaldszkyana
Hampe



1100
♂
0

Bal

Silene gallica
L.



600
♂
0

Kos

Silene gallinii
Rchb.



1200
♂
0

subMed

Silene gigantea
L.



1300
♂
0

Bal

Silene graeca
Boiss. & Spruner



800
♂
0

!

Bal

Silene heuffelii
Söö



1500
♂
0

Bal-Dac

Silene italicica
(L.) Pers.



1600
♂
0

Eur-Med

Silene lerchenfeldiana
Baumg.



2600
♂
200

Carp-Bal

Silene lydia
Boiss.

1000

↓

500

!

EMed

Silene moldavica
(Klokov) Šourkova

100

↓

0

Pont-Bal

Silene noctiflora
L.

1200

↓

0

Eur-Sib

Silene nutans
L.

1500

↓

0

Eur-As

Silene otites
(L.) Wibel

1000

↓

0

Eur-Med

Silene pusilla
Waldst. & Kit.

2600

↓

1300

Alp-Med

Silene radicosa
Boiss. & Heldr.

1800

↓

1800

Silene roemeri
Friv.

2700

↓

300

Bal

Silene saxifraga
L.

2900

↓

1000

Alp-Med

Silene sendtneri
Boiss.

1500

↓

0

Bal

Silene skorpilii
Velen.600
0
0

Bal

Silene stojanovii
Panov2900
0
1000

Bul

Silene subconica
Friv.1400
0
0

subMed

Silene supina
M. Bieb.1200
0
0

Pont-Med

Silene thymifolia
Sm.0
0
0

Bal

Silene trojanensis
(Velen.) Jordanov & Panov2300
0
1000

Bul

Silene velcevii
Jordanov & Panov400
0
200

!

Bul

Silene velenovskyana
Jordanov & Panov2900
0
1000

Bal

Silene viridiflora
L.2000
0
0

Med

Silene vulgaris
(Moench) Garcke2600
0
0

Eur-As

Silene waldsteinii
Griseb.

2400

↓

600

Bal

Silene wolgensis
(Hornem.) Otth

500

↓

0

Pont

Silybum marianum
(L.) Gaertn.

1000

↓

0

Med

Sinapis arvensis
L.

1200

↓

0

Med

Sison amomum
L.

600

↓

0

Eur-Med

Sisymbrium altissimum
L.

1000

↓

0

Pont-subMed

Sisymbrium irio
L.

300

↓

0

subBoreal

Sisymbrium loeselii
L.

1000

↓

0

Eur-As

Sisymbrium officinale
(L.) Scop.

1100

↓

0

Eur-Sib

Sisymbrium orientale
L.

1000

↓

0

Eur-As

Sisymbrium polyceratum
L.

1000

↓
0

Med

Sisymbrium polymorphum
(Murr.) Roth

500

↓
0

!

Eur-As

Sisymbrium strictissimum
L.

850

↓
0

Eur

Sisyrinchium montanum
Greene

100

↓
0

Adv

Sium latifolium
L.

800

↓
0

Boreal

Sium sisarum
L.

500

↓
0

!

Eur-As

Smilax excelsa
L.

1000

↓
0

subMed

Smyrnium perfoliatum
L.

1200

↓
0

Eur-Med

Smyrnium rotundifolium
Mill.

500

↓
0

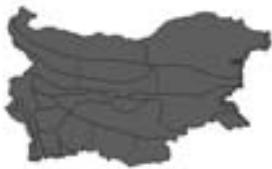
Med

Solanum alatum
Moench

900

↓
0

subMed

Solanum dulcamara
L.

900

↔

0

Eur-As

Solanum luteum
Mill.

1000

↔

0

subMed

Solanum nigrum
L.

1000

↔

0

Kos

Solanum schultesii
Opiz

800

↔

0

Pont

Soldanella chrysosticta
Kress

2700

↔

1500

Carp-Bal

Soldanella pindicola
Hausskn.

2000

↔

1500

Soldanella pusilla
Baumg.

2900

↔

2200

Alp-Carp-Bal

Soldanella rhodopaea
F. K. Mey.

2900

↔

1400

Bal

Solidago canadensis
L.

500

↔

0

Adv

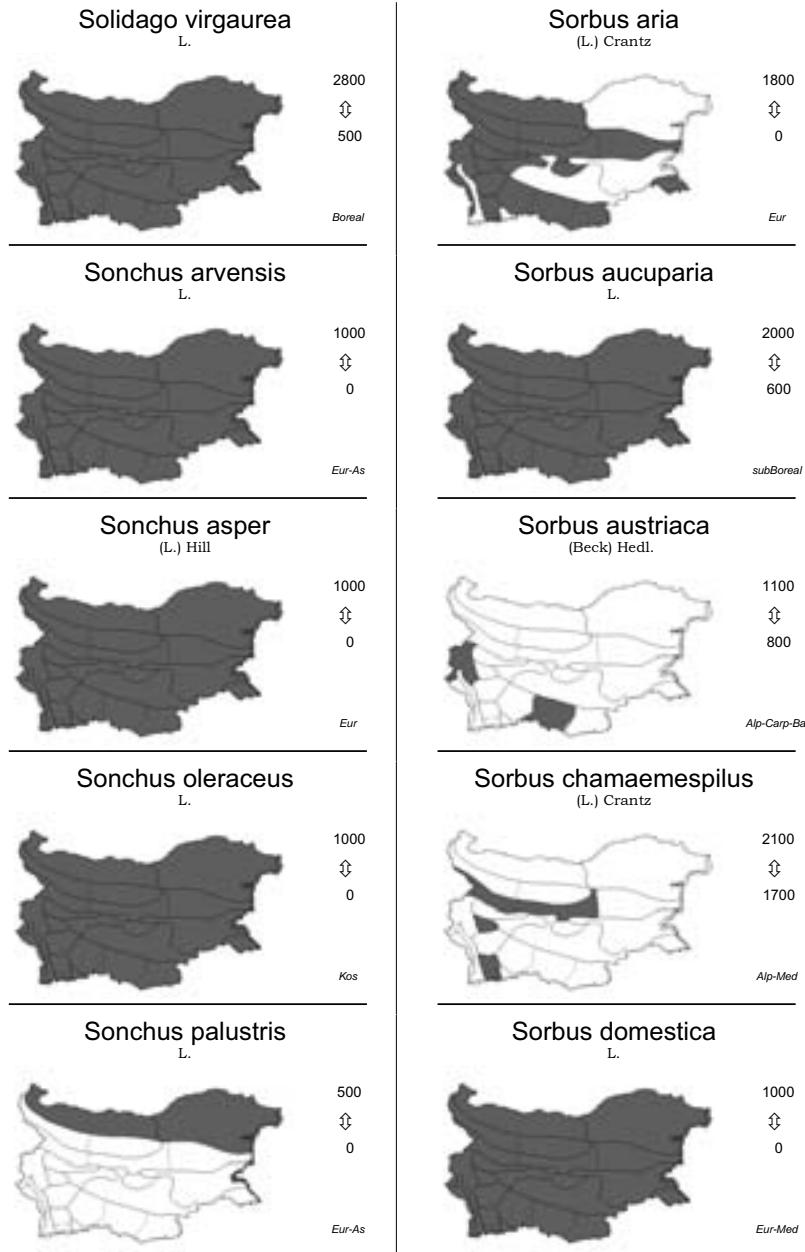
Solidago gigantea
Aiton

1000

↔

0

NAm (Cult)



Sorbus graeca
(Spach) Kotschy1300
↓
500

Poni-Med

Sorbus torminalis
(L.) Crantz1700
↓
0

Poni-Med

Sorbus umbellata
(Desf.) Fritsch1600
↓
600

subMed

Sorghum halepense
(L.) Pers.1000
↓
0

subMed-As

Sparganium angustifolium
Michx.1800
↓
1000

subBoreal

Sparganium emersum
Rehmann1000
↓
0

Boreal

Sparganium erectum
L.1000
↓
0

Boreal

Sparganium minimum
Wallr.1600
↓
0

Boreal

Spartium junceum
L.1000
↓
0

Med (Adv)

Spergula arvensis
L.1800
↓
0

Kos

Spergula pentandra
L.

1000

↔

0

subMed

Spergularia marina
(L.) Griseb.

500

↔

0

subBoreal

Spergularia media
(L.) C. Presl

500

↔

0

Eur-As

Spergularia rubra
(L.) J. & C. Presl

2000

↔

0

subBoreal

Spiraea chamaedryfolia
L.

1800

↔

1000

Pont-As

Spiraea crenata
L.

500

↔

0

!

Pont

Spiraea hypericifolia
L.

300

↔

300

!

Pont-Sib

Spiraea media
F. W. Schmidt

2000

↔

500

Pont-Sib

Spiraea salicifolia
L.

1200

↔

1200

!

Boreal

Spiranthes spiralis
(L.) Chevall.

1000

↔

0

!

subMed

Spirodela polyrhiza
(L.) Schleid.



1000
◻
0

Kos

Sporobolus indicus
(L.) R. Br.



100
◻
0

Am (Adv)

Stachys alpina
L.



2000
◻
900

Alp-Carp

Stachys angustifolia
M. Bieb.



2000
◻
0

Pont-Med

Stachys anisochila
Vis. & Pančić



◻

373

Stachys annua
(L.) L.



1400
◻
0

Eur-As

Stachys arenariaeformis
Rouy



200
◻
0

!

Bal-Dac

Stachys atherocalyx
C. Koch



1000
◻
0

Pont-Med

Stachys cassia
(Boiss.) Boiss.



1000
◻
100

Pont-Med

Stachys cretica
L.



1000
◻
0

Pont-Med

Stachys germanica
L.

1600

↔
0

Eur-subMed

Stachys leucoglossa
Griseb.

2000

↔
200

Bal

Stachys maritima
Gouan

0

↔
0

Med

Stachys milanii
Petrović

1000

↔
100

Bal

Stachys obliqua
Waldst. & Kit.

800

↔
0

Bal-Anat

Stachys palustris
L.

1000

↔
0

Boreal

Stachys plumosa
Griseb.

1000

↔
100

Bal

Stachys recta
L.

1500

↔
0

Eur-Med

Stachys serbica
Pančić

1200

↔
150

Bal

Stachys sylvatica
L.

2000

↔
0

Eur-As

Stachys thymphaea
Hausskn.

2200

↓

1000

Ap-Bal

Staphylea pinnata
L.

1000

↓

500

Eur-Med

Stefanoffia daucoides
(Boiss.) H. Wolff

300

↓

0

Bal-Anat

Stellaria alsine
Grimm

1500

↓

0

Boreal

Stellaria cupaniana
(Jord. & Fourr.) Bég.

1500

↓

0

Stellaria graminea
L.

1900

↓

0

Eur-As

Stellaria holostea
L.

2000

↓

0

Eur-Sib

Stellaria media
(L.) Vill.

1500

↓

0

Kos

Stellaria neglecta
Weihe

300

↓

0

Eur-As

Stellaria nemorum
L.

2300

↓

0

Eur

Stellaria pallida
(Dumort.) Piré



1500

◻
0

subMed-CAs

Stellaria palustris
Retz.



1000

◻
0

Eur-As

Stephorhamphus tuberosus
(Jacq.) Grossh.



1000

◻
0

Med

Sternbergia colchiciflora
Waldst. & Kit.



1200

◻
0

Eur-Pont

Stipa balcanica
(Martinovský) Kožuharov



2000

◻
800

Bal

Stipa borysththenica
Klokov ex Prokudin

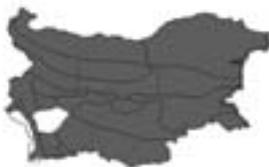


1000

◻
0

Pont

Stipa capillata
L.



1000

◻
0

Pont-Med

Stipa crassicalmis
P. A. Smirn.



500

◻
0

CAs

Stipa epilosa
Martinovský



1400

◻
0

Stipa eriocaulis
Borbás



1000

◻
0

Stipa lessingiana
Trin. & Rupr.

100

◻

0

Eur-As

Stipa pennata
L.

100

◻

0

Eur

Stipa pontica
P. A. Smirn.

200

◻

0

Pont

Stipa pulcherrima
Koch

1500

◻

0

Pont-Med

Stipa tirsia
Steven

700

◻

0

Eur-As

Stratiotes aloides
L.

100

◻

100

!

Eur-Sib

Streptopus amplexifolius
(L.) DC.

2000

◻

1500

Boreal

Suaeda altissima
(L.) Pall.

200

◻

0

Eur-As

Suaeda heterophylla
(Kar. & Kir.) Bunge

50

◻

0

!

Pont-CAs

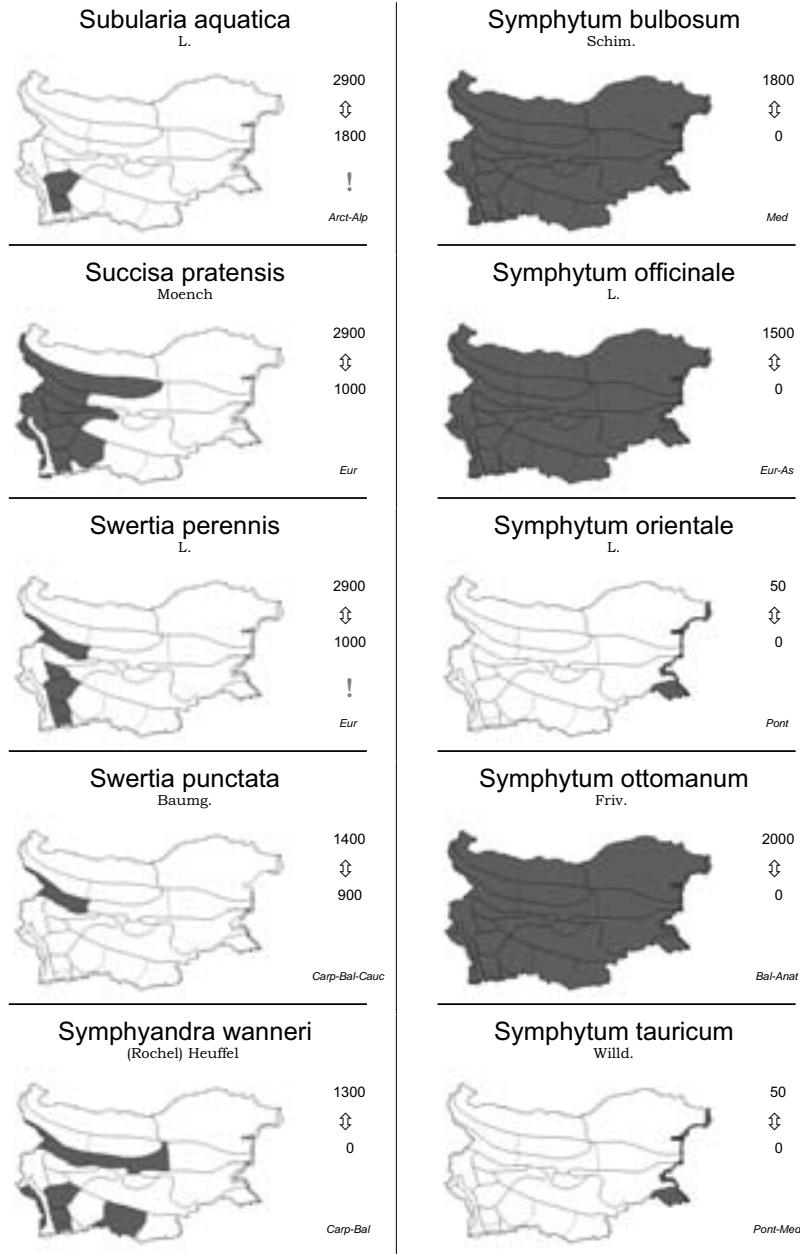
Suaeda maritima
(L.) Dumort.

300

◻

0

Kos



Sympythium tuberosum

L.



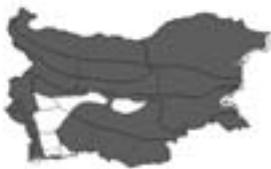
2200

◻
0

Eur-Med

Syringa vulgaris

L.



1300

◻
0

Carp-Bal

Taeniatherum caput-medusae

(L.) Nevski



1000

◻
0

Eur-As

Taeniatherum crinitum

(Schreb.) Nevski



1000

◻
0

Pont-CAs

Tamarix ramosissima

Ledeb.



300

◻
0

Eur-As

Tamarix tetrandra

Pall. ex M. Bieb.



500

◻
0

Med

Tamus communis

L.



1200

◻
0

subMed

Tanacetum achilleifolium

(M. Bieb.) Sch.Bip.



100

◻
0

Pont-Med

Tanacetum corymbosum

(L.) Sch.Bip.



2000

◻
0

Eur-Med

Tanacetum macrophyllum

(Waldst. & Kit.) Sch.Bip.



2000

◻
0

Eur

Tanacetum millefolium
(L.) Tzvelev



100

◻

0

Pont

Tanacetum parthenium
(L.) Sch.Bip.



2000

◻

0

Eur-OT

Tanacetum vulgare
L.



2000

◻

0

Eur-Sib

Taraxacum aequilobiforme
v. Soest



◻

Taraxacum ambitiosum
Kirschner & Štěpánek



0

◻

0

Bul

Taraxacum apenninum
(Ten.) Ten.



2800

◻

0

Taraxacum apiculatoides
Malecka



0

◻

0

Taraxacum bessarabicum
(Hornem.) Hand.-Mazz.



500

◻

0

Pont-CAs

Taraxacum bithynicum
DC.



2900

◻

2500

Med

Taraxacum borovezum
Doll



1900

◻

1300

Bul

Taraxacum carinthiacum

v. Soest



1700



1700

Taraxacum crassum

H. Öllg. & Trávníček



1300



1200

Taraxacum crocellum

v. Soest

*Taraxacum erytrospermum*

Andrz. ex Besser



2000



1000

Eur

Taraxacum floribundum

Doll



1500



1200

Bul

Taraxacum fontanosquameum

v. Soest



2500



2500

Bal

Taraxacum fontanum

Hand.-Mazz.

*Taraxacum glaucolivaceum*

Kirschner & Štěpánek



1000



800

Bul

Taraxacum hamosium

Doll



2000



1500

Bul

Taraxacum helveticum

v. Soest



2800



2000

Taraxacum hoppeanum
Griseb.



2000

0
0

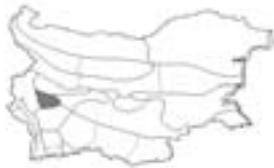
Bal-Dac

Taraxacum hybernum
Steven

200
0

Pont

Taraxacum insolitum
Kirschner, C. E. Sonck & Štěpánek

0
0

Taraxacum lenticum
Kirschner & Štěpánek

0
0

Bul

Taraxacum lividum
(Waldst. & Kit.) Peterm.

1000
800

382

Taraxacum malowitzum
Doll



2500

0
1700

Bul

Taraxacum mattmarkense
v. Soest



0

Taraxacum megalorrhizon
(Forssk.) Hand.-Mazz.

2000
500

Med

Taraxacum melancholicum
Kirschner & Štěpánek

0
0

Bul

Taraxacum metriocallosum
v. Soest

2000
1000

Taraxacum nigricans
(Kit.) Rehb.



2900

□

1500

Carp-Bal

Taraxacum obuncum
Kirschner & Štěpánek



0

□

0

Bul

Taraxacum ochrospermum
v. Soest



□

Taraxacum officinale
L.



2800

□

1000

Eur-Med

Taraxacum ooststroombii
v. Soest



□

Taraxacum paludosiforme
Doll



2500

□

2000

Bul

Taraxacum palustre
(Lyons) Symons



2800

□

800

Pont

Taraxacum panalpinum
v. Soest



2800

□

1700

Taraxacum plovdivense
Doll



400

□

0

Bul

Taraxacum poliochloroides
Doll



1000

□

1000

Bul

Taraxacum pseudofontanum
v. Soest

2800

↓

1700

Taraxacum pseudo-vernelense
Doll

2600

↓

2000

Bul

Taraxacum reiectum
Sonck

1200

↓

0

Taraxacum reophilum
v. Soest

↓

Taraxacum rhaeticum
v. Soest

2500

↓

1500

Taraxacum rivale
Doll

1300

↓

1300

Bul

Taraxacum saasense
v. Soest

2800

↓

2000

Taraxacum scaturiginosum
G. E. Haglund

1200

↓

800

Taraxacum serotinum
(Waldst. & Kit.) Poir.

2000

↓

1000

Pont

Taraxacum silvicolum
v. Soest

↓

Taraxacum silvrettense

v. Soest



↔

Taraxacum sitnjakovense

Doll



1700

↔

1700

1000

↔

1000

Bul

Taraxacum suspectum

Kirschner & Štěpánek



1000

↔

1000

Taraxacum sophiae

Kirschner & Štěpánek



1200

↔

800

0

↔

0

Soest

*Taraxacum strictum*

Kirschner & Štěpánek



0

↔

0

1700

↔

200

L.



!

Eur-NAm

Taraxacum subudum

Kirschner & Štěpánek



1200

↔

500

1000

↔

0

Teesdalia coronopifolia

(J. P. Bergeret) Thell.



SubMed-CAs

Telekia speciosa
(Schreb.) Baumg.



2000

↔
0

subMed

Tetragonolobus maritimus
(L.) Roth



0

↔
0

!

subMed

Teucrium botrys
L.



300

↔
0

!

Teucrium chamaedrys
L.



1500

↔
0

subMed

Teucrium lamiifolium
D'Urv.



500

↔
0

Med

Teucrium montanum
L.



1900

↔
0

subMed

Teucrium polium
L.



2000

↔
0

Pont-Med

Teucrium scordium
L.



1500

↔
0

subMed

Thalictrum aquilegifolium
L.



2300

↔
0

Eur-As

Thalictrum flavum
L.



200

↔
0

Eur-As

Thalictrum foetidum
L.

700

↓

700

!

Eur-As

Thalictrum lucidum
L.

1100

↓

0

Eur

Thalictrum minus
L.

2600

↓

0

Eur-Sib

Thalictrum simplex
L.

1800

↓

0

Eur-As

Theligonum cynocrambe
L.

1000

↓

500

!

Med-CAs

Thelypteris phegopteris
(L.) Sloss.

1900

↓

1200

Boreal

Thelypteris thelypteroides
(F. Michx.) Holub

1000

↓

0

!

Boreal

Thesium alpinum
L.

2500

↓

1500

Eur-Med

Thesium arvense
Horv.

1100

↓

0

Med-CAs

Thesium bavarum
Schrank

2500

↓

500

subMed

Thesium divaricatum
Jan ex Mert & Koch



1600
◻
0

Eur-Med

Thesium dollineri
Murb.



1000
◻
0

Pont

Thesium linophyllum
L.



2000
◻
800

subMed

Thesium procumbens
C. A. Mey



0
◻
0

1200
◻
0

Pont

Thesium simplex
Velen.



1200
◻
0

Bal-Dac

Thlaspi alliaceum
L.



1700
◻
0

subMed

Thlaspi arvense
L.



1700
◻
0

Eur-As

Thlaspi bellidifolium
Griseb.



2900
◻
2000

Bal

Thlaspi goesingense
Halász



1200
◻
0

Pont

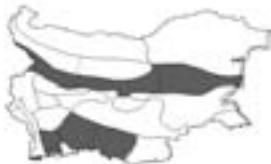
Thlaspi kovatsii
Heuff.



2000
◻
0

Pont-Med

Thlaspi ochroleucum
Boiss. & Heldr.



2000

↓

1000

Med

Thlaspi perfoliatum
L.



1000

↓

0

Eur-Med

Thlaspi praecox
Wulfen



2900

↓

1000

subMed

Thlaspi viridisepalum
(Podp.) Greuter & Burdet



2000

↓

1000

Bal

Thymelaea bulgarica
Cheschk.



1500

↓

0

Bal

Thymelaea gussonei
Boreau



200

↓

0

Thymelaea passerina
(L.) Coss. & Germ.



1000

↓

0

Pont

Thymus albanus
Heinr. Braun



2700

↓

1200

Bal

Thymus atticus
Čelak.



900

↓

0

Bal

Thymus bracteosus
Vis. ex Benth.



1000

↓

0

!

Med

Thymus callieri
Borbás ex Velen.



1200

↓

0

Pont

Thymus comptus
Friv.



700

↓

200

Bal

Thymus glabrescens
Willd.



2200

↓

0

Eur



2900

↓

100

subMed

Thymus leucotrichus
Halácsy



450

↓

300

Med

Thymus longedentatus
(Degen & Urum.) Ronniger



400

↓

100

Bal

Thymus longicaulis
C. Presl



2200

↓

500

Med

Thymus moesiacus
Velen.



2500

↓

100

Bal-Anat

Thymus pannonicus
All.



1300

↓

0

Eur

Thymus perinicus
(Velen.) Jalas



2900

↓

1900

!

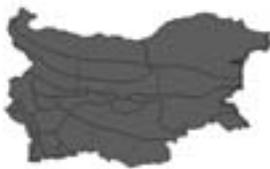
Bul

Thymus pulegioides
L.

2000

◻
0

Eur

Thymus sibthorpii
Benth.

2000

◻
0

Bal-Dac

Thymus stojanovii
Degen

2400

◻
1200

Bul

Thymus striatus
Vahl

1800

◻
0

subMed

Thymus thracicus
Velen.

2900

◻
300

subMed

Thymus vandasii
Velen.

2900

◻
900

Eur-Med

Thymus zygioides
Griseb.

700

◻
0

subMed

Tilia cordata
Mill.

1500

◻
0

Eur

Tilia platyphyllos
Scop.

1600

◻
500

Eur

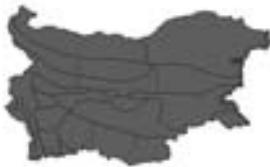
Tilia rubra
DC.

1000

◻
0

Pont

Tilia tomentosa
Moench



1500
◻
800

Eur-Med

Tolpis barbata
(L.) Gaertn.



1000
◻
0

Med

Tordylium apulum
L.



500
◻
0

Med

Tordylium maximum
L.



1000
◻
0

subMed

Torilis arvensis
(Hudson) Link



900
◻
0

Eur-As

Torilis heterophylla
Guss.



400
◻
0

Pont-Med

Torilis japonica
(Houtt.) DC.



1200
◻
0

Eur-As

Torilis leptophylla
(L.) Rchb. f.



800
◻
0

Med-CAs

Torilis nodosa
(L.) Gaertn.



600
◻
0

Eur-As

Torilis ucranica
Spreng.



600
◻
0

SPont

Tozzia carpatica
Waloszcz.



2900

↓

1000

Alp-Med

Trachelium rumelianum
Hampe



1500

↓

250

Bal

!

Trachomitum venetum
(L.) Woodson



0

↓

0

Pont-Med

!

Trachynia distachya
(L.) Link



600

↓

0

Med-As

Trachystemon orientalis
(L.) G. Don



1000

↓

0

SEUx

Tragopogon balcanicum
Velen.



1000

↓

0

Bal

Tragopogon crocifolius
L.



800

↓

800

Med

Tragopogon dubius
Scop.



1000

↓

0

Eur-Med

Tragopogon floccosus
Waldst. & Kit.



200

↓

0

Pann

Tragopogon orientalis
L.



1000

↓

0

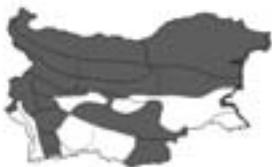
Eur-Med

Tragopogon porrifolius
L.

1000

↓
0

Med

Tragopogon pratensis
L.

1000

↓
0

Eur-Med

Tragopogon pterodes
Pančić

1500

↓
0

Bal

Tragopogon strybrnyi
Hayek

1000

↓
0

Bul

Tragus racemosus
(L.) All.

1300

↓
0

subBoreal

Trapa natans
L.

500

↓
0

!

Eur-As

Traunsteinera globosa
(L.) Rchb.

2000

↓
1200

!

Pont-Med

Tremastelma palaestinum
(L.) Janch.

1000

↓
0

Med

Tribulus terrestris
L.

800

↓
0

Eur-As

Trichophorum caespitosum
(L.) Hartm.

2500

↓
1600

Boreal

Trifolium affine
C. Presl



1300

◻
0

Trifolium alexandrinum
L.



600

◻
0

Trifolium alpestre
L.

2000
◻
600

Trifolium angustifolium
L.

1000
◻
0

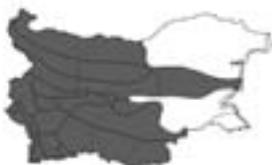
Med

Trifolium arvense
L.

1300
◻
0

Eur-Sib

Trifolium aureum
Pollich



2200

◻
0

Eur-Sib

Trifolium badium
Schreb.

2500
◻
1500

Alp-Med

Trifolium bocconei
Savi

500
◻
0

subMed

Trifolium campestre
Schreb

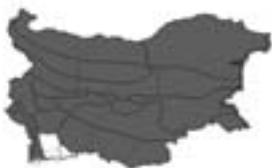
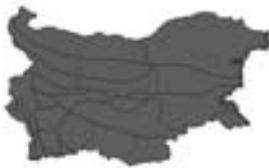
1000
◻
0

Eur-Med

Trifolium cherleri
L.

700
◻
0

Med

Trifolium dalmaticum
Vis.800
↓
0*Trifolium globosum*
L.500
↓
0*Trifolium diffusum*
Ehrh.1500
↓
0*Trifolium glomeratum*
L.500
↓
0*Trifolium dubium*
Sibth.1300
↓
0*Trifolium heldreichianum*
Hausskn.1600
↓
0*Trifolium echinatum*
M. Bieb.700
↓
0*Trifolium hirtum*
All.1000
↓
0*Trifolium fragiferum*
L.1000
↓
0*Trifolium hybridum*
L.1800
↓
0

Trifolium incarnatum
L.

1200

◻
0

subMed

Trifolium lappaceum
L.

900

◻
0

Med

Trifolium latinum
Sebast.

600

◻
0

Med

Trifolium leucanthum
M. Bieb.

500

◻
0

Pont-Med

Trifolium ligusticum
Balb. ex Loisel.

500

◻
0

Med

Trifolium medium
L.

1800

◻
0

Eur-As

Trifolium michelianum
Savi

1300

◻
0

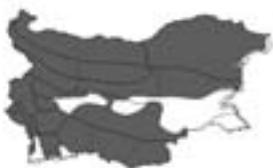
subMed

Trifolium micranthum
Viv.

1000

◻
0

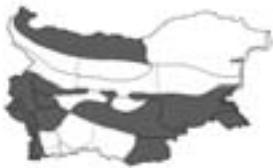
Eur-Med

Trifolium montanum
L.

2000

◻
0

SPont

Trifolium nigrescens
Viv.

1000

◻
0

Pont-Med

Trifolium ochroleucon
Huds.



1600

◻
0

Eur

Trifolium pallescens
Schreb.

1800
◻
800

subMed

Trifolium pallidum
Waldst. & Kit.

1600
◻
0

subMed

Trifolium pannonicum
Jacq.

1500
◻
0

subMed

Trifolium patens
Schreb.

2200
◻
0

subMed

Trifolium phleoides
Pourret ex Willd.



700

◻
0

!

Pont-Med

Trifolium physodes
Steven ex M. Bibb.

500
◻
0

Med

Trifolium pignantii
Fauché & Chaub.

1500
◻
0

Bal

Trifolium pratense
L.

2200
◻
0

subBoreal

Trifolium purpureum
Loisel.

1100
◻
0

Med

Trifolium repens
L.2800
↔
0

Eur-Sib

Trifolium resupinatum
L.800
↔
0

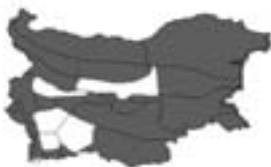
Med

Trifolium retusum
L.1200
↔
0

Med

Trifolium rubens
L.800
↔
0

Pont-Med

Trifolium scabrum
L.800
↔
0

Med-As

Trifolium sebastianii
Savi300
↔
0

Med

Trifolium setiferum
Boiss.800
↔
0

Med

Trifolium smyrnaeum
Boiss.900
↔
0

Med

Trifolium spadiceum
L.2200
↔
0

subMed

Trifolium speciosum
Willd.800
↔
0

Pont-Med

Trifolium spumosum
L.100
◻
0

Med

Trifolium squamosum
L.500
◻
0

Poni-Med

Trifolium squarrosum
L.500
◻
0

Med

Trifolium striatum
L.1000
◻
0

Eur-Med

Trifolium strictum
L.800
◻
0

Eur-Sib

Trifolium subterraneum
L.500
◻
0

subMed

Trifolium suffocatum
L.500
◻
0

subMed

Trifolium tenuifolium
Ten.800
◻
0

Med

Trifolium trichopterum
Pančić1600
◻
0

Bal

Trifolium velenovskyi
Vandas2000
◻
800

Bal

Triglochin maritima
L.

0

↔

0

!

Kos

Triglochin palustris
L.

1800

↔

0

Boreal

Trigonella coerulea
(L.) Ser.

600

↔

0

Eur-Med

Trigonella corniculata
L.

500

↔

0

Med

Trigonella foenum-graecum
L.

700

↔

0

Adv

Trigonella gladiata
Steven ex M. Bieb.

500

↔

0

subMed

Trigonella monspeliaca
L.

800

↔

0

subMed

Trigonella orthoceras
Kar. & Kir.

150

↔

0

Pont-Sib

Trigonella procumbens
(Besser) Rchb.

1000

↔

0

Pont-Med

Trigonella spicata
Sm.

200

↔

0

Pont-Med

Trigonella striata
L.800
↔
0

Pont-Bal

Trinia glauca
(L.) Dumort.2000
↔
0
!

subMed

Trinia ramosissima
(Fisch. ex Trev.) Koch1200
↔
0

Eur

Trisetum flavescens
(L.) P. Beauv.2400
↔
0

Boreal

Triticum baeoticum
Boiss.500
↔
0

Pont

Triticum monococcum
L.300
↔
0

subMed (Adv)

Trollius europaeus
L.2900
↔
1900
!

Boreal

Tuberaria guttata
(L.) Fourr.700
↔
0

subMed

Tulipa aureolina
Delip.100
↔
0
!

Bul

Tulipa australis
Link1500
↔
0

subMed

Tulipa pirinica
Delip.

1300

↔

800

!

Bul

Tulipa rhodopea
Velen.

1800

↔

0

!

Bul

Tulipa splendens
Delip.

200

↔

0

!

Bul

Tulipa thracica
Davidov

0

↔

0

!

Bal

Tulipa urumoffii
Hayek

1000

↔

0

!

Bul

Turgenia latifolia
(L.) Hoffm.

1300

↔

0

Eur-As

Turgeniopsis foeniculacea
(Fenzl) Boiss.

300

↔

0

!

Med

Tussilago farfara
L.

1500

↔

0

Eur-As

Typha angustifolia
L.

1000

↔

0

Kos

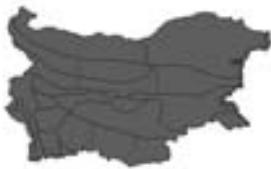
Typha domingensis
(Pers.) Steud.

500

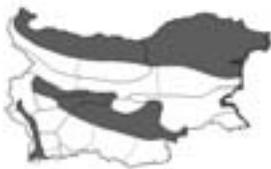
↔

0

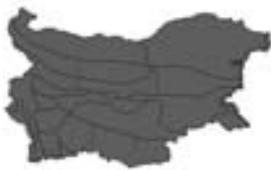
SEur

Typha latifolia
L.1500
↔
0

Kos

Typha laxmanii
Lepech.300
↔
0

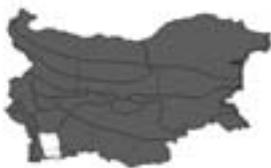
Med-As

Typha shuttleworthii
Koch & Sond.1500
↔
0
!

Kos

Tyrimnus leucographus
(L.) Cass.1000
↔
0

Med

Ulmus glabra
Huds.1500
↔
500

Eur-Med

Ulmus laevis
Pall.700
↔
0

Eur-Med

Ulmus minor
Mill.700
↔
0

Eur-Med

Umbilicus erectus
DC.1500
↔
0

Med

Umbilicus horizontalis
(Guss.) DC.300
↔
0

Med

Umbilicus rupestris
(Salisb.) Dandy800
↔
0

subMed

Urospermum picroides
(L.) Scop. ex F. W. Schmidt



Urtica dioica
L.



Urtica pilulifera
L.



Urtica urens
L.



Utricularia australis
R. Br.



Utricularia minor
L.



Utricularia vulgaris
L.



Vaccaria hispanica
(Mill.) Rasch.



Vaccinium arctostaphylos
L.



Vaccinium myrtillus
L.



Vaccinium uliginosum
L.

2500

↓

1700

Boreal

Vaccinium vitis-idaea
L.

2000

↓

700

Boreal

Valeriana dioscoridis
Sm.

400

↓

0

Pont-Med

Valeriana montana
L.

1800

↓

1300

Alp-Carp-Bal

Valeriana officinalis
L.

2200

↓

100

Eur-Sib

Valeriana simplicifolia
(Rchb.) Kabath

1400

↓

1300

!

Eur

Valeriana tripteris
L.

2400

↓

900

Eur

Valeriana tuberosa
L.

1500

↓

700

Med-CAs

Valerianella carinata
Loisel.

1300

↓

0

Eur-Med

Valerianella coronata
(L.) DC.

900

↓

0

Eur-Med

Valerianella costata
(Steven) Betcke



900

◻

0

Pont-Med

Valerianella dentata
(L.) Poll.



1000

◻

0

Eur-Med

Valerianella discoidea
(L.) Loisel.



300

◻

0

Med

Valerianella eriocarpa
Desv.



500

◻

0

Med

Valerianella kotschyi
Boiss.



300

◻

0

Pont-CAs

Valerianella lasiocarpa
(Steven) Betcke



700

◻

500

subMed

Valerianella locusta
(L.) Laterr.



900

◻

0

Eur-Med

Valerianella microcarpa
Loisel.



700

◻

0

Eur-Med

Valerianella muricata
(Steven ex M. Bieb.) Loudon



500

◻

0

Med-CAs

Valerianella pontica
Lipsky



300

◻

0

Pont

Valerianella pumila
(L.) DC.



900
◻
0

Pont-Med

Valerianella rimosa
Bast.



900
◻
0

Eur

Valerianella turgida
(Steven) Betscke



1000
◻
0

subMed

Vallisneria spiralis
L.



100
◻
0

Boreal

Velezia rigida
L.



1000
◻
0

subMed

Ventenata dubia
(Leers) Coss.



1000
◻
0

Pont-Med

Veratrum lobelianum
Bernh.



2900
◻
1000

Eur-As

Veratrum nigrum
L.



1500
◻
0

Eur-As

Verbascum abietinum
Borbás



1200
◻
200

Bul-Dac

Verbascum adamovičii
Velen.



2000
◻
100

Bal

Verbascum adrianopolitanum
Podp.



1000
↔
0
!
Bal

Verbascum anisophyllum
Murb.



900
↔
400
!
Bul

Verbascum banaticum
Schrad.



1000
↔
0
Bal-Dac

Verbascum blattaria
L.



1000
↔
0
Eur-Sib

Verbascum boeveae
Stef.-Gat.



1600
↔
1600
!
Bul

Verbascum bugulifolium
Lam.



100
↔
0
!
Bal-Anat

Verbascum chaixii
Vill.



1000
↔
0
Pann-Bal

Verbascum crenatifolium
Boiss.



800
↔
0
Pont-Med

Verbascum davidoffii
Murb.



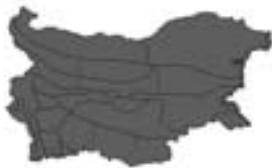
2100
↔
1300
!
Bul

Verbascum decorum
Velen.



600
↔
200
!
Bul

Verbascum densiflorum
Bertol.



2000

↔

0

subMed

Verbascum dieckianum
Borbás & Degen



100

↔

0

Bal

Verbascum eriophorum
Godr.



1000

↔

400

!

Bal

Verbascum formanekii
Borbás ex Formánek



1000

↔

300

Bal

Verbascum glabratum
Friv.



1800

↔

200

Carp-Bal

Verbascum humile
Janka



1800

↔

100

Bal

Verbascum jankaeanum
Pančić



1900

↔

1400

!

Bul

Verbascum jordanovii
Stef.-Gat.



1000

↔

700

!

Bul

Verbascum juruk
Stef.



300

↔

300

!

Bul

Verbascum lagurus
Fisch. & C. A. Mey.



800

↔

300

Pont-Med

Verbascum lanatum
Schrad.



2000
♂
200

Alp-Med

Verbascum longifolium
Ten.



2800
♂
1500

Eur-Med

Verbascum lychnitis
L.



1800
♂
200

Ap-Bal

Verbascum minutiflorum
Stef.



1000
♂
0

!
Bul

Verbascum nigrum
L.



1000
♂
0

Pont-CAS

Verbascum niveum
Ten.



1000
♂
200

Ap-Bal

Verbascum nobile
Velen.



600
♂
100

Bal

Verbascum orientale
(L.) All.



500
♂
0

Pont-Sib

Verbascum ovalifolium
Donn ex Sims



1000
♂
0

Pont-Bal

Verbascum phlomoides
L.



2000
♂
0

Eur

Verbascum phoeniceum
L.



1000

↔

0

Eur-Sib

Verbascum pseudonobile
Stoj. & Stef.



400

↔

50

!

Bal

Verbascum pulverulentum
Vill.



1500

↔

0

subMed

Verbascum purpureum
(Janka) Hub.-Mor.



200

↔

0

!

Pont

Verbascum rorippifolium
(Halácsy) I. K. Ferguson



800

↔

100

Bal

Verbascum rupestre
(Davidov) I. K. Ferguson



600

↔

0

!

Bal

Verbascum sinuatum
L.



1000

↔

0

Med

Verbascum spathulisepalum
Greuter & Rech. f.



300

↔

300

!

Bal

Verbascum speciosum
Schrad.



1800

↔

0

Eur-Med

Verbascum thracicum
Velen.



500

↔

50

!

Bal-Anat

Verbascum tzar-borisii
(Davidov ex Stoj.) Stef.-Gat.



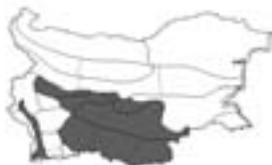
100
◻
50
!
Bul

Verbascum urumoffii
Stoj. & Acht.



1000
◻
600
!
Bul

Verbascum xanthophoeniceum
Griseb.



1200
◻
0
Bal-Anat

Verbena officinalis
Voss.



1000
◻
0
Kos

Verbena supina
L.



200
◻
0
subBoreal

Veronica acinifolia
L.



1000
◻
0
subMed

Veronica alpina
L.



2900
◻
2000
Eur-Jap-Ch

Veronica anagalis-aquatica
L.



200
◻
0
Boreal

Veronica arvensis
L.



1500
◻
0
Eur-Sib

Veronica austriaca
L.



1600
◻
0
Eur-Med

Veronica aznavourii

Dörf.



200

↓

0

Bal

Veronica catenata

Pennell



500

↓

0

Eur-As

Veronica barrelieri

Schott ex Roem. & Schult.



1900

↓

0

Pont-Bal

Veronica chamaedrys

L.



2700

↓

0

Eur-As

Veronica baumgartenii

Roem. & Schult.



2200

↓

2000

Carp-Bal

Veronica cymbalaria

Bernh.



800

↓

0

Med

Veronica beccabunga

L.



2100

↓

0

Eur-As

Veronica euxina

Turrill



200

↓

0

Bul

Veronica bellidioides

L.



2600

↓

1800

Alp-Med

Veronica filiformis

Sm.



300

↓

200

Adv

Veronica fruticans
Jacq.



2500
↓
2300

Alp (Adv)

Veronica fruticulosa
L.



2600
↓
2400

Alp (Adv)

Veronica glauca
Sm.



200
↓
200

Bal

Veronica grisebachii
Walters



500
↓
500

Bal-Anat

Veronica hederifolia
L.



800
↓
0

Eur-Med

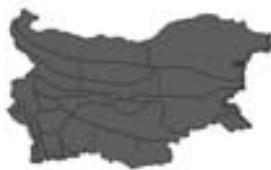
Veronica kellererii
Degen & Urum.



2900
↓
2500

Bul

Veronica krumovii
(Peev) Peev



800
↓
0

Bul

Veronica longifolia
L.



500
↓
0

Eur-CAs

Veronica montana
L.



1700
↓
700

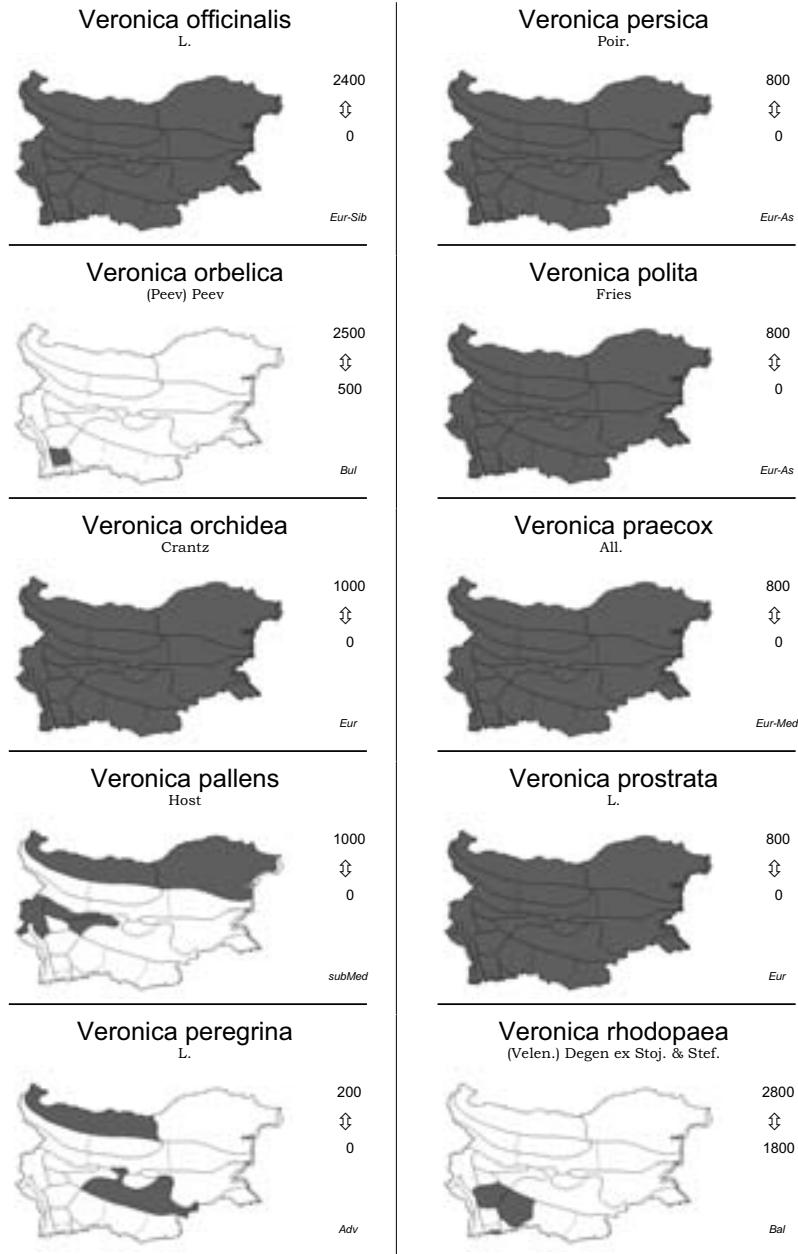
Eur

Veronica multifida
L.



200
↓
0

Pont-Med



Veronica scardica
Griseb.1500
↔
0

Pont-Med

Veronica scutellata
L.1500
↔
0

Eur

Veronica serpyllifolia
L.2500
↔
0

Boreal

Veronica spuria
L.1000
↔
0

Pont-CAs

Veronica sublobata
M. A. Fisch.800
↔
0

Eur

Veronica teucrium
L.1200
↔
0

Eur-Sib

Veronica trichadena
Jord. & Fourr.200
↔
0

Med

Veronica triloba
(Opiz) A. Kern.800
↔
0

subMed

Veronica triphyllos
L.700
↔
0

Eur-Med

Veronica turrilliana
Stoj. & Stef.500
↔
0

!Bal

Veronica urticifolia
Jacq.



1900

↔

500

Eur

Veronica verna
L.



1500

↔

0

Eur-Sib

Veronica vindobonensis
(M. A. Fisch.) M. A. Fisch.



2200

↔

0

Eur

Viburnum lantana
L.



1500

↔

0

Eur-Med

Viburnum opulus
L.



1500

↔

0

Eur-Sib

Vicia abbreviata
Spreng.



1700

↔

1500

!

Bal

Vicia amphicarpa
Dorthes



1300

↔

0

!

Med

Vicia angustifolia
Grufberg



1000

↔

0

Eur-As

Vicia articulata
Hornem.



300

↔

0

subMed

Vicia bythinica
(L.) L.



500

↔

0

subMed

Vicia cassubica
L.1800
◻
0

Eur-Med

Vicia cordata
Wulfen500
◻
0

Med

Vicia cracca
L.2000
◻
0

Eur-As

Vicia dalmatica
A. Kern.2400
◻
0

subMed

Vicia dumetorum
L.1500
◻
200

Med

Vicia grandiflora
Scop.1500
◻
0

subMed

Vicia hirsuta
(L.) Gray1200
◻
0

Eur-Med

Vicia hybrida
L.500
◻
0

Med-CAs

Vicia incana
Gouan1900
◻
1100

Eur

Vicia incisa
M. Bieb.100
◻
0

Pont

Vicia jordanovii
Velchev1000
◻
0

Bul

Vicia laeta
Ces.300
◻
0

Med-subMed

Vicia lathyroides
L.1000
◻
0

Eur-Med

Vicia lutea
L.300
◻
0

subMed

Vicia melanops
Sm.1000
◻
0

subMed

Vicia narbonensis
L.600
◻
0

Eur-As

Vicia onobrychioides
L.1400
◻
100

Med

Vicia pannonica
Crantz1500
◻
0

Eur-Med

Vicia peregrina
L.1500
◻
0

Eur-As

Vicia pisiformis
L.500
◻
0

Eur

Vicia sativa
L.

500

↔
0

Eur-Med

Vicia sepium
L.

2200

↔
300

Eur-As

Vicia serratifolia
Jacq.

500

↔
0

Pont-Med

Vicia sparsiflora
Ten.

500

↔
0

Eur

Vicia tenuifolia
Roth

1500

↔
0

Eur-As

Vicia tetrasperma
(L.) Schreb.

1200

↔
0

Eur-Med

Vicia truncatula
M. Bieb.

1500

↔
1300

!

Pont-Med

Vicia varia
Host

900

↔
0

Eur-Med

Vicia villosa
Roth

1500

↔
0

Eur-CAs

Vinca herbacea
Waldst. & Kit.

1500

↔
0

Eur-Med

Vinca major
L.

500

↔

0

Eur-Med

Vinca minor
L.

1000

↔

0

Eur-Med

Vincetoxicum fuscatum
(Hornem.) Rchb. f.

1000

↔

0

Med

Vincetoxicum hirundinaria
Medicus

1500

↔

0

Eur-Sib

Vincetoxicum speciosum
Boiss.

700

↔

0

Med

Viola aetolica
Boiss. & Heldr.

1500

↔

800

Bal

Viola alba
Besser

1200

↔

100

Eur-Med

Viola ambigua
Waldst. & Kit.

1100

↔

200

Eur-Sib

Viola arvensis
Murr.

1500

↔

0

Eur

Viola balcanica
Delip.

2000

↔

1400

!

Bul

Viola biflora
L.

2800

↓

1700

Boreal

Viola elatior
Fr.

700

↓

0

Eur-As

Viola canina
L.

2200

↓

1000

Boreal

Viola ganiatsasii
Erben

1500

↓

500

Bal

Viola crinita
(Delip.) Delip.

2100

↓

1500

Bul

Viola gracilis
Sm.

2100

↓

1800

Bal-Anat

Viola dacica
Borbás

2300

↓

1500

Pont-Med

Viola grisebachiana
Vis.

2800

↓

1300

Bal

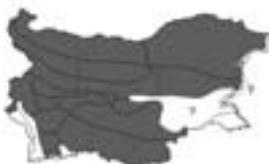
Viola delphinantha
Boiss.

1700

↓

950

Bal

Viola hirta
L.

1300

↓

300

Eur-As

Viola jordanii
Harry1000
◻
200

Eur-Med

Viola kitaibeliana
Schult.1200
◻
0

Eur-Med

Viola macedonica
Boiss. & Heldr.2000
◻
500

Bal

Viola mirabilis
L.1000
◻
0

Eur-As

Viola montana
L.2000
◻
500

Eur-As

Viola odorata
L.1000
◻
0

Eur-Med

Viola orbelica
Pančić2000
◻
1200

!

Bul

Viola palustris
L.1600
◻
1300

!

Eur-NAm

Viola parvula
Tineo1200
◻
1000

Med

Viola perennis
Becker2800
◻
1500

!

Bal

Viola persicifolia
Schreb.

1200

↔

1200

!

Eur-Sib

Viola pumila
Chaix

900

↔

650

!

Eur-As

Viola pyrenaica
Ramond ex DC.

2000

↔

1700

!

Eur

Viola reichenbachiana
Jord. ex Boreau

2000

↔

100

Eur-As

Viola rhodopeia
Becker

2400

↔

1300

Bul

Viola riviniana
Rchb.

1500

↔

150

subMed

Viola rupestris
F. W. Schmidt

1800

↔

800

Eur-Sib

Viola serresiana
Erben

↔

Viola sieheana
Becker

1000

↔

300

Pont-Med

Viola speciosa
Pant.

1900

↔

1300

!

Bal

Viola stojanowii
Becker

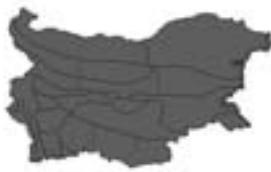
1800

↓

1500

!

Bal

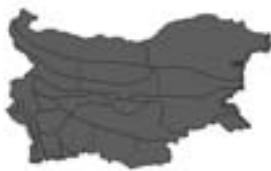
Viola suavis
M. Bieb.

900

↓

0

Eur-As

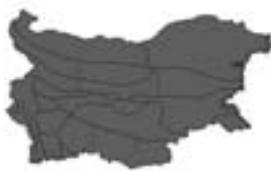
Viola tricolor
L.

1800

↓

200

Eur-As

Viscaria vulgaris
Röhl.

1500

↓

0

Eur-Sib

Viscum album
L.

2000

↓

0

Eur-As

Vitex agnus-castus
L.

400

↓

0

Med-CAs

Vitis sylvestris
C. C. Gmel.

500

↓

0

subMed

Vulpia ambigua
(Le Gall) More

300

↓

0

Vulpia bromoides
(L.) Gray

800

↓

0

Med-OT

Vulpia ciliata
Dumort.

500

↓

0

Med-CAs

Vulpia fasciculata
(Forssk.) Samp.



100

◻
0

Med-Atl

Vulpia muralis
(Kunth) Nees



300

◻
0

Med

Vulpia myurus
(L.) C. C. Gmel.



2000

◻
0

subBoreal

Vulpia unilateralis
(L.) Stace



300

◻
0

Med-Ch

Waldsteinia geoides
Willd.



1200

◻
400

Pann-Bal

Wolfenia arrhiza
(L.) Horkel ex Wimm.



300

◻
0

Kos

Xanthium italicum
Moretti



1000

◻
0

NAm (Adv)

Xanthium spinosum
L.



1000

◻
0

Kos

Xanthium strumarium
L.



1000

◻
0

Eur

Xeranthemum annuum
L.



1000

◻
0

subMed

Xeranthemum cylindraceum
Sm.



500

◻

0

subMed

Xeranthemum inapertum
(L.) Mill.



100

◻

0

Poni-Med

Zannichellia palustris
L.



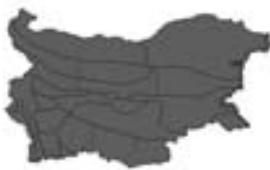
500

◻

0

Kos

Ziziphora capitata
L.



1000

◻

0

Med

Zostera marina
L.



0

◻

0

Kos

Zostera noltii
Hornem.



0

◻

0

Alt-Med

Zygophyllum fabago
L.



100

◻

0

Eur-As

Ametepamypa / References

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LIST OF THE GENERA AND THEIR FAMILIES СПИСЪК НА РОДОВЕТИ И ТЕХНИТЕ СЕМЕЙСТВА

Abies - <i>Pinaceae</i>	Anthemis - <i>Asteraceae</i>
Abutilon - <i>Malvaceae</i>	Anthericum - <i>Liliaceae</i>
Acalypha - <i>Euphorbiaceae</i>	Anthoxanthum - <i>Poaceae</i>
Acanthus - <i>Acanthaceae</i>	Anthriscus - <i>Apiaceae</i>
Acer - <i>Aceraceae</i>	Anthyllis - <i>Fabaceae</i>
Achillea - <i>Asteraceae</i>	Apera - <i>Poaceae</i>
Achnatherum - <i>Poaceae</i>	Aphanes - <i>Rosaceae</i>
Acinos - <i>Lamiaceae</i>	Apium - <i>Apiaceae</i>
Aconitum - <i>Ranunculaceae</i>	Aquilegia - <i>Ranunculaceae</i>
Acorellus - <i>Cyperaceae</i>	Arabidopsis - <i>Brassicaceae</i>
Acorus - <i>Araceae</i>	Arabis - <i>Brassicaceae</i>
Actaea - <i>Ranunculaceae</i>	Arbutus - <i>Ericaceae</i>
Adenostyles - <i>Asteraceae</i>	Arceutobium - <i>Loranthaceae</i>
Adiantum - <i>Adiantaceae</i>	Arctium - <i>Asteraceae</i>
Adonis - <i>Ranunculaceae</i>	Arctostaphylos - <i>Ericaceae</i>
Adoxa - <i>Adoxaceae</i>	Aremonia - <i>Rosaceae</i>
Aegilops - <i>Poaceae</i>	Arenaria - <i>Caryophyllaceae</i>
Aegopodium - <i>Apiaceae</i>	Argusia - <i>Boraginaceae</i>
Aeluropus - <i>Poaceae</i>	Aristolochia - <i>Aristolochiaceae</i>
Aesculus - <i>Hippocastanaceae</i>	Armeria - <i>Plumbaginaceae</i>
Aethionema - <i>Brassicaceae</i>	Arrhenatherum - <i>Poaceae</i>
Aethusa - <i>Apiaceae</i>	Artemisia - <i>Asteraceae</i>
Agrimonie - <i>Rosaceae</i>	Arum - <i>Araceae</i>
Agropyron - <i>Poaceae</i>	Asarum - <i>Aristolochiaceae</i>
Agrostemma - <i>Caryophyllaceae</i>	Asclepias - <i>Asclepiadaceae</i>
Agrostis - <i>Poaceae</i>	Asparagus - <i>Liliaceae</i>
Aira - <i>Poaceae</i>	Asperugo - <i>Boraginaceae</i>
Ajuga - <i>Lamiaceae</i>	Asperula - <i>Rubiaceae</i>
Alcea - <i>Malvaceae</i>	Asphodeline - <i>Liliaceae</i>
Alchemilla - <i>Rosaceae</i>	Asphodelus - <i>Liliaceae</i>
Aldrovanda - <i>Droseraceae</i>	Asplenium - <i>Aspleniaceae</i>
Alisma - <i>Alismataceae</i>	Aster - <i>Asteraceae</i>
Alkanna - <i>Boraginaceae</i>	Asteriscus - <i>Asteraceae</i>
Alliaria - <i>Brassicaceae</i>	Asterolinon - <i>Primulaceae</i>
Allium - <i>Liliaceae</i>	Astracantha - <i>Fabaceae</i>
Alnus - <i>Betulaceae</i>	Astragalus - <i>Fabaceae</i>
Alopecurus - <i>Poaceae</i>	Astrantia - <i>Apiaceae</i>
Althaea - <i>Malvaceae</i>	Astrodaucus - <i>Apiaceae</i>
Alyssoides - <i>Brassicaceae</i>	Asyneuma - <i>Campanulaceae</i>
Alyssum - <i>Brassicaceae</i>	Athyrium - <i>Athyriaceae</i>
Amaranthus - <i>Amaranthaceae</i>	Atriplex - <i>Chenopodiaceae</i>
Ambrosia - <i>Asteraceae</i>	Atropa - <i>Solanaceae</i>
Amelanchier - <i>Rosaceae</i>	Aubrieta - <i>Brassicaceae</i>
Ammannia - <i>Lythraceae</i>	Aurinia - <i>Brassicaceae</i>
Ammophila - <i>Poaceae</i>	Avena - <i>Poaceae</i>
Amygdalus - <i>Rosaceae</i>	Avenula - <i>Poaceae</i>
Anacamptis - <i>Orchidaceae</i>	Azolla - <i>Azollaceae</i>
Anagallis - <i>Primulaceae</i>	Ballota - <i>Lamiaceae</i>
Anchusa - <i>Boraginaceae</i>	Barbarea - <i>Brassicaceae</i>
Andrachne - <i>Euphorbiaceae</i>	Bartsia - <i>Scrophulariaceae</i>
Androsace - <i>Primulaceae</i>	Bassia - <i>Chenopodiaceae</i>
Andrzeiowska - <i>Brassicaceae</i>	Beckmannia - <i>Poaceae</i>
Anemone - <i>Ranunculaceae</i>	Bellardia - <i>Scrophulariaceae</i>
Anethum - <i>Apiaceae</i>	Bellardiochloa - <i>Poaceae</i>
Angelica - <i>Apiaceae</i>	Bellevalia - <i>Liliaceae</i>
Antennaria - <i>Asteraceae</i>	Bellis - <i>Asteraceae</i>

Berberis - <i>Berberidaceae</i>	Caucalis - <i>Apiaceae</i>
Berteroia - <i>Brassicaceae</i>	Celtis - <i>Ulmaceae</i>
Berula - <i>Apiaceae</i>	Centaurea - <i>Asteraceae</i>
Beta - <i>Chenopodiaceae</i>	Centaurium - <i>Gentianaceae</i>
Betula - <i>Betulaceae</i>	Centranthus - <i>Valerianaceae</i>
Bidens - <i>Asteraceae</i>	Cephalanthera - <i>Orchidaceae</i>
Bifora - <i>Apiaceae</i>	Cephalaria - <i>Dipsacaceae</i>
Bilderdykia - <i>Polygonaceae</i>	Cephalorrhynchus - <i>Asteraceae</i>
Biserrula - <i>Fabaceae</i>	Cerastium - <i>Caryophyllaceae</i>
Bistorta - <i>Polygonaceae</i>	Ceratocarpus - <i>Chenopodiaceae</i>
Blackstonia - <i>Gentianaceae</i>	Ceratocephalus - <i>Ranunculaceae</i>
Blechnum - <i>Blechnaceae</i>	Ceratophyllum - <i>Ceratophyllaceae</i>
Blysmus - <i>Cyperaceae</i>	Cercis - <i>Fabaceae</i>
Bolboschoenus - <i>Cyperaceae</i>	Cerinthe - <i>Boraginaceae</i>
Bombycilaena - <i>Asteraceae</i>	Ceterach - <i>Aspleniaceae</i>
Botrychium - <i>Ophioglossaceae</i>	Chaenorhinum - <i>Scrophulariaceae</i>
Brachiaria - <i>Poaceae</i>	Chaerophyllum - <i>Apiaceae</i>
Brachypodium - <i>Poaceae</i>	Chamaecytisus - <i>Fabaceae</i>
Brassica - <i>Brassicaceae</i>	Chamaespantium - <i>Fabaceae</i>
Briza - <i>Poaceae</i>	Chamomilla - <i>Asteraceae</i>
Bromus - <i>Poaceae</i>	Cheilanthes - <i>Sinopteridaceae</i>
Broussonetia - <i>Moraceae</i>	Chelidonium - <i>Papaveraceae</i>
Bruckenthalia - <i>Ericaceae</i>	Chenopodium - <i>Chenopodiaceae</i>
Bryonia - <i>Cucurbitaceae</i>	Chondrilla - <i>Asteraceae</i>
Bufonia - <i>Caryophyllaceae</i>	Chorispora - <i>Brassicaceae</i>
Buglossoides - <i>Boraginaceae</i>	Chrozophora - <i>Euphorbiaceae</i>
Bunias - <i>Brassicaceae</i>	Chrysopogon - <i>Poaceae</i>
Bunium - <i>Apiaceae</i>	Chrysosplenium - <i>Saxifragaceae</i>
Bupleurum - <i>Apiaceae</i>	Cicer - <i>Fabaceae</i>
Butomus - <i>Butomaceae</i>	Cicerbita - <i>Asteraceae</i>
Cachrys - <i>Apiaceae</i>	Cichorium - <i>Asteraceae</i>
Cakile - <i>Brassicaceae</i>	Cicuta - <i>Apiaceae</i>
Calamagrostis - <i>Poaceae</i>	Cionura - <i>Asclepiadaceae</i>
Calamintha - <i>Lamiaceae</i>	Circaeа - <i>Onagraceae</i>
Caldesia - <i>Alismataceae</i>	Cirsium - <i>Asteraceae</i>
Calendula - <i>Asteraceae</i>	Cistus - <i>Cistaceae</i>
Calepina - <i>Brassicaceae</i>	Citrullus - <i>Cucurbitaceae</i>
Callitrichie - <i>Callitrichaceae</i>	Cladium - <i>Cyperaceae</i>
Calluna - <i>Ericaceae</i>	Cleistogenes - <i>Poaceae</i>
Caltha - <i>Ranunculaceae</i>	Clematis - <i>Ranunculaceae</i>
Calystegia - <i>Convolvulaceae</i>	Cleome - <i>Capparidaceae</i>
Camelina - <i>Brassicaceae</i>	Clinopodium - <i>Lamiaceae</i>
Campanula - <i>Campanulaceae</i>	Clypeola - <i>Brassicaceae</i>
Campborosma - <i>Chenopodiaceae</i>	Cnicus - <i>Asteraceae</i>
Cannabis - <i>Cannabaceae</i>	Cnidium - <i>Apiaceae</i>
Capsella - <i>Brassicaceae</i>	Coeloglossum - <i>Orchidaceae</i>
Caragana - <i>Fabaceae</i>	Colchicum - <i>Liliaceae</i>
Cardamine - <i>Brassicaceae</i>	Colutea - <i>Fabaceae</i>
Cardaminopsis - <i>Brassicaceae</i>	Comandra - <i>Santalaceae</i>
Cardaria - <i>Brassicaceae</i>	Conium - <i>Apiaceae</i>
Carduus - <i>Asteraceae</i>	Conringia - <i>Brassicaceae</i>
Carex - <i>Cyperaceae</i>	Consolida - <i>Ranunculaceae</i>
Carlina - <i>Asteraceae</i>	Convallaria - <i>Liliaceae</i>
Carpesium - <i>Asteraceae</i>	Convolvulus - <i>Convolvulaceae</i>
Carpinus - <i>Betulaceae</i>	Conyzа - <i>Asteraceae</i>
Carthamus - <i>Asteraceae</i>	Corallorrhiza - <i>Orchidaceae</i>
Carum - <i>Apiaceae</i>	Coriandrum - <i>Apiaceae</i>
Castanea - <i>Fagaceae</i>	Corispermum - <i>Chenopodiaceae</i>
Catabrosa - <i>Poaceae</i>	Cornus - <i>Cornaceae</i>

Coronilla - <i>Fabaceae</i>	Dracocephalum - <i>Lamiaceae</i>
Coronopus - <i>Brassicaceae</i>	Dracunculus - <i>Araceae</i>
Corothamnus - <i>Fabaceae</i>	Drosera - <i>Droseraceae</i>
Corrigiola - <i>Caryophyllaceae</i>	Dryas - <i>Rosaceae</i>
Cortusa - <i>Primulaceae</i>	Dryopteris - <i>Aspidiaceae</i>
Corydalis - <i>Papaveraceae</i>	Duchesnea - <i>Rosaceae</i>
Corylus - <i>Betulaceae</i>	Ecballium - <i>Cucurbitaceae</i>
Corynephorus - <i>Poaceae</i>	Echinaria - <i>Poaceae</i>
Cotinus - <i>Anacardiaceae</i>	Echinochloa - <i>Poaceae</i>
Cotoneaster - <i>Rosaceae</i>	Echinocystis - <i>Cucurbitaceae</i>
Crambe - <i>Brassicaceae</i>	Echinophora - <i>Apiaceae</i>
Crassula - <i>Crassulaceae</i>	Echinops - <i>Asteraceae</i>
Crataegus - <i>Rosaceae</i>	Echium - <i>Boraginaceae</i>
Crepis - <i>Asteraceae</i>	Edraianthus - <i>Campanulaceae</i>
Cressa - <i>Convolvulaceae</i>	Elatine - <i>Elatinaceae</i>
Crithmum - <i>Apiaceae</i>	Eleagnus - <i>Eleagnaceae</i>
Crocus - <i>Iridaceae</i>	Eleocharis - <i>Cyperaceae</i>
Crucianella - <i>Rubiaceae</i>	Eleusine - <i>Poaceae</i>
Cruciata - <i>Rubiaceae</i>	Elodea - <i>Hydrocharitaceae</i>
Crupina - <i>Asteraceae</i>	Elymus - <i>Poaceae</i>
Crypsis - <i>Poaceae</i>	Elyna - <i>Cyperaceae</i>
Cryptogramma - <i>Cryptogrammaceae</i>	Empetrum - <i>Empetraceae</i>
Cucubalus - <i>Caryophyllaceae</i>	Ephedra - <i>Ephedraceae</i>
Cuscuta - <i>Cuscutaceae</i>	Epilobium - <i>Onagraceae</i>
Cyclamen - <i>Primulaceae</i>	Epimedium - <i>Berberidaceae</i>
Cymbalaria - <i>Scrophulariaceae</i>	Epipactis - <i>Orchidaceae</i>
Cynanchum - <i>Asclepiadaceae</i>	Epipogium - <i>Orchidaceae</i>
Cynodon - <i>Poaceae</i>	Equisetum - <i>Equisetaceae</i>
Cynoglossum - <i>Boraginaceae</i>	Eragrostis - <i>Poaceae</i>
Cynosurus - <i>Poaceae</i>	Eranthis - <i>Ranunculaceae</i>
Cyperus - <i>Cyperaceae</i>	Erianthus - <i>Poaceae</i>
Cypripedium - <i>Orchidaceae</i>	Erica - <i>Ericaceae</i>
Cystopteris - <i>Athyriaceae</i>	Erigeron - <i>Asteraceae</i>
Cytinus - <i>Rafflesiaceae</i>	Eriolobus - <i>Rosaceae</i>
Dactylis - <i>Poaceae</i>	Eriophorum - <i>Cyperaceae</i>
Dactylorhiza - <i>Orchidaceae</i>	Erodium - <i>Geraniaceae</i>
Danthonia - <i>Poaceae</i>	Erophila - <i>Brassicaceae</i>
Danthoniastrum - <i>Poaceae</i>	Eruca - <i>Brassicaceae</i>
Daphne - <i>Thymelaeaceae</i>	Eryngium - <i>Apiaceae</i>
Dasypyrum - <i>Poaceae</i>	Erysimum - <i>Brassicaceae</i>
Datura - <i>Solanaceae</i>	Erythronium - <i>Liliaceae</i>
Daucus - <i>Apiaceae</i>	Euclidium - <i>Brassicaceae</i>
Delphinium - <i>Ranunculaceae</i>	Eupatorium - <i>Asteraceae</i>
Deschampsia - <i>Poaceae</i>	Euphorbia - <i>Euphorbiaceae</i>
Descurainia - <i>Brassicaceae</i>	Euphrasia - <i>Scrophulariaceae</i>
Desmazeria - <i>Poaceae</i>	Evonymus - <i>Celastraceae</i>
Dianthus - <i>Caryophyllaceae</i>	Fagus - <i>Fagaceae</i>
Dichanthium - <i>Poaceae</i>	Falcaria - <i>Apiaceae</i>
Dichostylis - <i>Cyperaceae</i>	Fallopia - <i>Polygonaceae</i>
Dictamnus - <i>Rutaceae</i>	Ferula - <i>Apiaceae</i>
Digitalis - <i>Scrophulariaceae</i>	Ferulago - <i>Apiaceae</i>
Digitaria - <i>Poaceae</i>	Festuca - <i>Poaceae</i>
Diphastiastrum - <i>Lycopodiaceae</i>	Festucopsis - <i>Poaceae</i>
Diplotaxis - <i>Brassicaceae</i>	Festulolium - <i>Poaceae</i>
Dipsacus - <i>Dipsacaceae</i>	Fibigia - <i>Brassicaceae</i>
Dittrichia - <i>Asteraceae</i>	Ficus - <i>Moraceae</i>
Doronicum - <i>Asteraceae</i>	Filaginella - <i>Asteraceae</i>
Dorycnium - <i>Fabaceae</i>	Filago - <i>Asteraceae</i>
Draba - <i>Brassicaceae</i>	Filipendula - <i>Rosaceae</i>

Fimbristylis	- Cyperaceae
Foeniculum	- Apiaceae
Fragaria	- Rosaceae
Frangula	- Rhamnaceae
Frankenia	- Frankeniaceae
Fraxinus	- Oleaceae
Fritillaria	- Liliaceae
Fumana	- Cistaceae
Fumaria	- Papaveraceae
Gagea	- Liliaceae
Galanthus	- Amaryllidaceae
Galega	- Fabaceae
Galeopsis	- Lamiaceae
Galilea	- Cyperaceae
Galinsoga	- Asteraceae
Galium	- Rubiaceae
Gastridium	- Poaceae
Gaudinia	- Poaceae
Genista	- Fabaceae
Gentiana	- Gentianaceae
Gentianella	- Gentianaceae
Geranium	- Geraniaceae
Geum	- Rosaceae
Gladiolus	- Iridaceae
Glaucium	- Papaveraceae
Glechoma	- Lamiaceae
Glinus	- Molluginaceae
Globularia	- Globulariaceae
Glyceria	- Poaceae
Glycyrrhiza	- Fabaceae
Gnaphalium	- Asteraceae
Goniolimon	- Plumbaginaceae
Goodyera	- Orchidaceae
Gratiola	- Scrophulariaceae
Groenlandia	- Potamogetonaceae
Gymnadenia	- Orchidaceae
Gymnocarpium	- Aspidiaceae
Gypsophila	- Caryophyllaceae
Haberlea	- Gesneriaceae
Hainardia	- Poaceae
Halimione	- Chenopodiaceae
Hammarbya	- Orchidaceae
Haplophyllum	- Rutaceae
Hedera	- Araliaceae
Hedypnois	- Asteraceae
Hedysarum	- Fabaceae
Helianthemum	- Cistaceae
Helichrysum	- Asteraceae
Heliotropium	- Boraginaceae
Helleborus	- Ranunculaceae
Hepatica	- Ranunculaceae
Heptaptera	- Apiaceae
Heracleum	- Apiaceae
Herminium	- Orchidaceae
Herniaria	- Caryophyllaceae
Hesperis	- Brassicaceae
Hibiscus	- Malvaceae
Hieracium	- Asteraceae
Hierochloe	- Poaceae
Himantoglossum	- Orchidaceae
Hippocrepis	- Fabaceae
Hippomarathrum	- Apiaceae
Hippophae	- Elaeagnaceae
Hippuris	- Hippuridaceae
Holcus	- Poaceae
Holoschoenus	- Cyperaceae
Holosteum	- Caryophyllaceae
Homogyne	- Asteraceae
Hordelymus	- Poaceae
Hordeum	- Poaceae
Hornungia	- Brassicaceae
Hottonia	- Primulaceae
Huetia	- Apiaceae
Humulus	- Cannabaceae
Huperzia	- Lycopodiaceae
Hyacinthella	- Liliaceae
Hydrocharis	- Hydrocharitaceae
Hymenocarpus	- Fabaceae
Hymenolobus	- Brassicaceae
Hyoscyamus	- Solanaceae
Hypecoum	- Papaveraceae
Hypericum	- Hypericaceae
Hypocheiris	- Asteraceae
Hyssopus	- Lamiaceae
Iberis	- Brassicaceae
Ilex	- Aquifoliaceae
Impatiens	- Balsaminaceae
Imperata	- Poaceae
Inula	- Asteraceae
Iris	- Iridaceae
Isatis	- Brassicaceae
Isoetes	- Isoetaceae
Isolepis	- Cyperaceae
Isopyrum	- Ranunculaceae
Iva	- Asteraceae
Jasione	- Campanulaceae
Jasminum	- Oleaceae
Jovibarba	- Crassulaceae
Juglans	- Juglandaceae
Juncus	- Juncaceae
Juniperus	- Cupressaceae
Jurinea	- Asteraceae
Kernera	- Brassicaceae
Kickxia	- Scrophulariaceae
Knautia	- Dipsacaceae
Kochia	- Chenopodiaceae
Koeleria	- Poaceae
Lactuca	- Asteraceae
Lagoecia	- Apiaceae
Lagurus	- Poaceae
Lamium	- Lamiaceae
Lappula	- Boraginaceae
Lapsana	- Asteraceae
Laser	- Apiaceae
Laserpitium	- Apiaceae
Lathraea	- Scrophulariaceae
Lathyrus	- Fabaceae
Laurocerasus	- Rosaceae

Lavandula - <i>Lamiaceae</i>	Matthiola - <i>Brassicaceae</i>
Lavatera - <i>Malvaceae</i>	Matricaria - <i>Asteraceae</i>
Leersia - <i>Poaceae</i>	Medicago - <i>Fabaceae</i>
Legousia - <i>Campanulaceae</i>	Melampyrum - <i>Scrophulariaceae</i>
Lembotropis - <i>Fabaceae</i>	Melica - <i>Poaceae</i>
Lemma - <i>Lemnaceae</i>	Melilotus - <i>Fabaceae</i>
Lens - <i>Fabaceae</i>	Melissa - <i>Lamiaceae</i>
Leontice - <i>Berberidaceae</i>	Melittis - <i>Lamiaceae</i>
Leontodon - <i>Asteraceae</i>	Mentha - <i>Lamiaceae</i>
Leontopodium - <i>Asteraceae</i>	Menyanthes - <i>Menyanthaceae</i>
Leonurus - <i>Lamiaceae</i>	Mercurialis - <i>Euphorbiaceae</i>
Lepidium - <i>Brassicaceae</i>	Merendera - <i>Liliaceae</i>
Lerchenfeldia - <i>Poaceae</i>	Mespilus - <i>Rosaceae</i>
Leucanthemella - <i>Asteraceae</i>	Meum - <i>Apiaceae</i>
Leucanthemum - <i>Asteraceae</i>	Micromeria - <i>Lamiaceae</i>
Leucojum - <i>Amaryllidaceae</i>	Micropyrum - <i>Poaceae</i>
Leymus - <i>Poaceae</i>	Middendorfia - <i>Lythraceae</i>
Ligularia - <i>Asteraceae</i>	Milium - <i>Poaceae</i>
Ligusticum - <i>Apiaceae</i>	Mimulus - <i>Scrophulariaceae</i>
Ligustrum - <i>Oleaceae</i>	Minuartia - <i>Caryophyllaceae</i>
Lilium - <i>Liliaceae</i>	Misopates - <i>Scrophulariaceae</i>
Limodorum - <i>Orchidaceae</i>	Moehringia - <i>Caryophyllaceae</i>
Limonium - <i>Plumbaginaceae</i>	Moenchia - <i>Caryophyllaceae</i>
Limosella - <i>Scrophulariaceae</i>	Molinieriella - <i>Poaceae</i>
Linaria - <i>Scrophulariaceae</i>	Molinia - <i>Poaceae</i>
Lindernia - <i>Scrophulariaceae</i>	Mollugo - <i>Molluginaceae</i>
Linum - <i>Linaceae</i>	Moneses - <i>Pyrolaceae</i>
Liparis - <i>Orchidaceae</i>	Monotropa - <i>Monotropaceae</i>
Listera - <i>Orchidaceae</i>	Montia - <i>Portulacaceae</i>
Lithospermum - <i>Boraginaceae</i>	Morina - <i>Morinaceae</i>
Lloydia - <i>Liliaceae</i>	Morus - <i>Moraceae</i>
Logfia - <i>Asteraceae</i>	Muscaris - <i>Liliaceae</i>
Lolium - <i>Poaceae</i>	Myagrum - <i>Brassicaceae</i>
Lonicera - <i>Caprifoliaceae</i>	Mycelis - <i>Asteraceae</i>
Lophochloa - <i>Poaceae</i>	Myosotis - <i>Boraginaceae</i>
Loranthus - <i>Loranthaceae</i>	Myosoton - <i>Caryophyllaceae</i>
Lotononis - <i>Fabaceae</i>	Myosurus - <i>Ranunculaceae</i>
Lotus - <i>Fabaceae</i>	Myricaria - <i>Tamaricaceae</i>
Ludwigia - <i>Onagraceae</i>	Myriophyllum - <i>Haloragaceae</i>
Lunaria - <i>Brassicaceae</i>	Myrrhoites - <i>Apiaceae</i>
Lupinus - <i>Fabaceae</i>	Najas - <i>Najadaceae</i>
Luzula - <i>Juncaceae</i>	Narcissus - <i>Amaryllidaceae</i>
Lychnis - <i>Caryophyllaceae</i>	Nardus - <i>Poaceae</i>
Lycium - <i>Solanaceae</i>	Nasturtium - <i>Brassicaceae</i>
Lycopodiella - <i>Lycopodiaceae</i>	Neatostema - <i>Boraginaceae</i>
Lycopodium - <i>Lycopodiaceae</i>	Nectaroscordum - <i>Liliaceae</i>
Lycopsis - <i>Boraginaceae</i>	Neottia - <i>Orchidaceae</i>
Lycopus - <i>Lamiaceae</i>	Nepeta - <i>Lamiaceae</i>
Lysimachia - <i>Primulaceae</i>	Neslia - <i>Brassicaceae</i>
Lythrum - <i>Lythraceae</i>	Nicandra - <i>Solanaceae</i>
Mahonia - <i>Berberidaceae</i>	Nigella - <i>Ranunculaceae</i>
Malabayla - <i>Apiaceae</i>	Nigritella - <i>Orchidaceae</i>
Malcolmia - <i>Brassicaceae</i>	Nonea - <i>Boraginaceae</i>
Malus - <i>Rosaceae</i>	Nuphar - <i>Nymphaeaceae</i>
Malva - <i>Malvaceae</i>	Nymphaea - <i>Nymphaeaceae</i>
Malvella - <i>Malvaceae</i>	Nymphoides - <i>Menyanthaceae</i>
Maresia - <i>Brassicaceae</i>	Odontites - <i>Scrophulariaceae</i>
Marrubium - <i>Lamiaceae</i>	Oenanthe - <i>Apiaceae</i>
Marsilea - <i>Marsileaceae</i>	Oenothera - <i>Onagraceae</i>

Omalotheca - Asteraceae	Picris - Asteraceae
Onobrychis - Fabaceae	Pimpinella - Apiaceae
Ononis - Fabaceae	Pinguicula - Lentibulariaceae
Onopordum - Asteraceae	Pinus - Pinaceae
Onosma - Boraginaceae	Piptatherum - Poaceae
Ophioglossum - Ophioglossaceae	Pininia - Caryophyllaceae
Ophrys - Orchidaceae	Pistacia - Anacardiaceae
Opopanax - Apiaceae	Pisum - Fabaceae
Orchis - Orchidaceae	Plantago - Plantaginaceae
Origanum - Lamiaceae	Platanthera - Orchidaceae
Orlaya - Apiaceae	Platanus - Platanaceae
Ornithogalum - Liliaceae	Pleuropteropyrum - Polygonaceae
Ornithopus - Fabaceae	Pleurospermum - Apiaceae
Orobanche - Orobanchaceae	Plumbago - Plumbaginaceae
Orthilia - Pyrolaceae	Poa - Poaceae
Osmunda - Osmundaceae	Polycarpon - Caryophyllaceae
Ostrya - Betulaceae	Polycnemum - Chenopodiaceae
Osyris - Santalaceae	Polygala - Polygalaceae
Otanthus - Asteraceae	Polygonatum - Liliaceae
Oxalis - Oxalidaceae	Polygonum - Polygonaceae
Oxyria - Polygonaceae	Polypodium - Polypodiaceae
Oxytropis - Fabaceae	Polypogon - Poaceae
Paeonia - Paeoniaceae	Polystichum - Aspleniaceae
Paliurus - Rhamnaceae	Populus - Salicaceae
Pallenis - Asteraceae	Portulaca - Portulacaceae
Pancratium - Amaryllidaceae	Potamogeton - Potamogetonaceae
Papaver - Papaveraceae	Potentilla - Rosaceae
Parapholis - Poaceae	Prangos - Apiaceae
Parentucellia - Scrophulariaceae	Prenanthes - Asteraceae
Parietaria - Urticaceae	Primula - Primulaceae
Paris - Liliaceae	Pritzelago - Brassicaceae
Parnassia - Saxifragaceae	Prunella - Lamiaceae
Paronychia - Caryophyllaceae	Prunus - Rosaceae
Partenocissus - Vitaceae	Pseudorchis - Orchidaceae
Parvotritesum - Poaceae	Pseudotsuga - Pinaceae
Paspalum - Poaceae	Psilurus - Poaceae
Pastinaca - Apiaceae	Pteridium - Hypolepidaceae
Pedicularis - Scrophulariaceae	Pterocephalus - Dipsacaceae
Peganum - Zygophyllaceae	Ptilostemon - Asteraceae
Peplis - Lythraceae	Puccinellia - Poaceae
Periploca - Asclepiadaceae	Pulicaria - Asteraceae
Persicaria - Polygonaceae	Pulmonaria - Boraginaceae
Petasites - Asteraceae	Pulsatilla - Ranunculaceae
Petrorhagia - Caryophyllaceae	Pycreus - Cyperaceae
Petrosimonia - Chenopodiaceae	Pyracantha - Rosaceae
Peucedanum - Apiaceae	Pyrola - Pyrolaceae
Phaelurus - Poaceae	Pyrus - Rosaceae
Phalaris - Poaceae	Quercus - Fagaceae
Phillyrea - Oleaceae	Queria - Caryophyllaceae
Phleum - Poaceae	Radiola - Linaceae
Phlomis - Lamiaceae	Ramonda - Gesneriaceae
Pholiurus - Poaceae	Ranunculus - Ranunculaceae
Phragmites - Poaceae	Raphanus - Brassicaceae
Phyllitis - Aspleniaceae	Rapistrum - Brassicaceae
Physalis - Solanaceae	Reichardia - Asteraceae
Physospermum - Apiaceae	Reseda - Resedaceae
Phyteuma - Campanulaceae	Rhagadiolus - Asteraceae
Picea - Pinaceae	Rhamnus - Rhamnaceae
Picnomon - Asteraceae	Rheum - Polygonaceae

Rhinanthus	- Scrophulariaceae	Seseli	- Apiaceae
Rhodax	- Cistaceae	Sesleria	- Poaceae
Rhodiola	- Crassulaceae	Setaria	- Poaceae
Rhododendron	- Ericaceae	Sherardia	- Rubiaceae
Rhus	- Anacardiaceae	Sibaldia	- Rosaceae
Rhynchosciurus	- Scrophulariaceae	Sicyos	- Cucurbitaceae
Ribes	- Saxifragaceae	Sideritis	- Lamiaceae
Rindera	- Boraginaceae	Sieglungia	- Poaceae
Robinia	- Fabaceae	Silaum	- Apiaceae
Rochelia	- Boraginaceae	Silene	- Caryophyllaceae
Roemeria	- Papaveraceae	Silybum	- Asteraceae
Romulea	- Iridaceae	Sinapis	- Brassicaceae
Rorippa	- Brassicaceae	Sison	- Apiaceae
Rosa	- Rosaceae	Sisymbrium	- Brassicaceae
Rubia	- Rubiaceae	Sium	- Apiaceae
Rubus	- Rosaceae	Smilax	- Smilacaceae
Rumex	- Polygonaceae	Smyrnium	- Apiaceae
Ruppia	- Ruppiaceae	Solanum	- Solanaceae
Ruscus	- Liliaceae	Soldanella	- Primulaceae
Ruta	- Rutaceae	Solidago	- Asteraceae
Sagina	- Caryophyllaceae	Sonchus	- Asteraceae
Sagittaria	- Alismataceae	Sorbus	- Rosaceae
Salicornia	- Chenopodiaceae	Sorghum	- Poaceae
Salix	- Salicaceae	Sparganium	- Sparganiaceae
Salsola	- Chenopodiaceae	Spergula	- Caryophyllaceae
Salvia	- Lamiaceae	Spergularia	- Caryophyllaceae
Salvinia	- Salviniaceae	Spiraea	- Rosaceae
Sambucus	- Caprifoliaceae	Spiranthes	- Orchidaceae
Samolus	- Primulaceae	Spirodela	- Lemnaceae
Sanguisorba	- Rosaceae	Sporobolus	- Poaceae
Sanicula	- Apiaceae	Stachys	- Lamiaceae
Saponaria	- Caryophyllaceae	Staphylea	- Staphyleaceae
Sarothamnos	- Fabaceae	Stefanoffia	- Apiaceae
Satureja	- Lamiaceae	Stellaria	- Caryophyllaceae
Saussurea	- Asteraceae	Steptorhamphus	- Asteraceae
Saxifraga	- Saxifragaceae	Sternbergia	- Amaryllidaceae
Scabiosa	- Dipsacaceae	Stipa	- Poaceae
Scandix	- Apiaceae	Stratiotes	- Hydrocharitaceae
Schivereckia	- Brassicaceae	Streptopus	- Liliaceae
Schoenoplectus	- Cyperaceae	Suaeda	- Chenopodiaceae
Schoenus	- Cyperaceae	Subularia	- Brassicaceae
Scilla	- Liliaceae	Succisa	- Dipsacaceae
Scirpus	- Cyperaceae	Swertia	- Gentianaceae
Scleranthus	- Caryophyllaceae	Symphyandra	- Campanulaceae
Sclerochloa	- Poaceae	Sympyrum	- Boraginaceae
Scolymus	- Asteraceae	Syringa	- Oleaceae
Scorpiurus	- Fabaceae	Taeniatherum	- Poaceae
Scorzoneroides	- Asteraceae	Tamarix	- Tamaricaceae
Scrophularia	- Scrophulariaceae	Tamus	- Dioscoreaceae
Scutellaria	- Lamiaceae	Tanacetum	- Asteraceae
Secale	- Poaceae	Taraxacum	- Asteraceae
Securigera	- Fabaceae	Taxus	- Taxaceae
Sedum	- Crassulaceae	Teesdalia	- Brassicaceae
Selaginella	- Selaginellaceae	Telekia	- Asteraceae
Selinum	- Apiaceae	Tetragonolobus	- Fabaceae
Sempervivum	- Crassulaceae	Teucrium	- Lamiaceae
Senecio	- Asteraceae	Thalictrum	- Ranunculaceae
Serapia	- Orchidaceae	Thelionum	- Theligonaceae
Serratula	- Asteraceae	Thelypteris	- Thelypteridaceae

Thesium - <i>Santalaceae</i>	Utricularia - <i>Lentibulariaceae</i>
Thlaspi - <i>Brassicaceae</i>	Vaccaria - <i>Caryophyllaceae</i>
Thymelaea - <i>Thymelaeaceae</i>	Vaccinium - <i>Ericaceae</i>
Thymus - <i>Lamiaceae</i>	Valeriana - <i>Valerianaceae</i>
Tilia - <i>Tiliaceae</i>	Valerianella - <i>Valerianaceae</i>
Tolpis - <i>Asteraceae</i>	Vallisneria - <i>Hydrocharitaceae</i>
Tordylium - <i>Apiaceae</i>	Velezia - <i>Caryophyllaceae</i>
Torilis - <i>Apiaceae</i>	Venetenata - <i>Poaceae</i>
Tozzia - <i>Scrophulariaceae</i>	Veratrum - <i>Liliaceae</i>
Trachelium - <i>Campanulaceae</i>	Verbascum - <i>Scrophulariaceae</i>
Trachomitum - <i>Apocynaceae</i>	Verbena - <i>Verbenaceae</i>
Trachynia - <i>Poaceae</i>	Veronica - <i>Scrophulariaceae</i>
Trachystemon - <i>Boraginaceae</i>	Viburnum - <i>Caprifoliaceae</i>
Tragopogon - <i>Asteraceae</i>	Vicia - <i>Fabaceae</i>
Tragus - <i>Poaceae</i>	Vinca - <i>Apocynaceae</i>
Trapa - <i>Trapaceae</i>	Vincetoxicum - <i>Asclepiadaceae</i>
Traunsteinera - <i>Orchidaceae</i>	Viola - <i>Violaceae</i>
Tremastelma - <i>Dipsacaceae</i>	Viscaria - <i>Caryophyllaceae</i>
Tribulus - <i>Zygophyllaceae</i>	Viscum - <i>Loranthaceae</i>
Trichophorum - <i>Cyperaceae</i>	Vitex - <i>Verbenaceae</i>
Trifolium - <i>Fabaceae</i>	Vitis - <i>Vitaceae</i>
Triglochin - <i>Juncaginaceae</i>	Vulpia - <i>Poaceae</i>
Trigonella - <i>Fabaceae</i>	Waldsteinia - <i>Rosaceae</i>
Trinia - <i>Apiaceae</i>	Wolfia - <i>Lemnaceae</i>
Trisetum - <i>Poaceae</i>	Xanthium - <i>Asteraceae</i>
Triticum - <i>Poaceae</i>	Xeranthemum - <i>Asteraceae</i>
Trollius - <i>Ranunculaceae</i>	Xolanthes - <i>Cistaceae</i>
Tulipa - <i>Liliaceae</i>	Zannichellia - <i>Zannichelliaceae</i>
Turgenia - <i>Apiaceae</i>	Ziziphora - <i>Lamiaceae</i>
Turgeniopsis - <i>Apiaceae</i>	Zostera - <i>Zosteraceae</i>
Tussilago - <i>Asteraceae</i>	Zygophyllum - <i>Zygophyllaceae</i>
Typha - <i>Typhaceae</i>	Zyzyphus - <i>Rhamnaceae</i>
Tyrimnus - <i>Asteraceae</i>	
Ulmus - <i>Ulmaceae</i>	
Umbilicus - <i>Crassulaceae</i>	
Urospermum - <i>Asteraceae</i>	
Urtica - <i>Urticaceae</i>	

LIST OF THE FAMILIES AND THEIR GENERA
СПИСЪК НА СЕМЕЙСТВА И ВКЛЮЧЕНИТЕ В ТЯХ РОДОВЕ

Acanthaceae - Acanthus

Aceraceae - Acer

Adiantaceae - Adiantum

Adoxaceae - Adoxa

Alismataceae - Alisma, Caldesia, Sagittaria

Amaranthaceae - Amaranthus

Amaryllidaceae - Galanthus, Leucojum, Narcissus, Pancratium, Sternbergia

Anacardiaceae - Cotinus, Pistacia, Rhus

Apiaceae (Umbelliferae) - Aegopodium, Aethusa, Anethum, Angelica, Anthriscus, Apium, Astrantia, Astrodacus, Berula, Bifora, Bunium, Bupleurum, Cachrys, Carum, Caucalis, Chaerophyllum, Cicuta, Cnidium, Conium, Coriandrum, Crithmum, Daucus, Echinophora, Eryngium, Falcaria, Ferula, Ferulago, Foeniculum, Heptaptera, Heracleum, Hippomarathrum, Huetia, Lagoecia, Laser, Laserpitium, Ligusticum, Malabayla, Meum, Myrrhoides, Oenanthe, Opopanax, Orlaya, Pastinaca, Peucedanum, Physospermum, Pimpinella, Pleurospermum, Prangos, Sanicula, Scandix, Selinum, Seseli, Silaum, Sison, Sium, Smyrnium, Stefanoffia, Tordylium, Torilis, Trinia, Turgenia, Turgeniopsis

Apocynaceae - Trachomitum, Vinca

Aquifoliaceae - Ilex

Araceae - Acorus, Arum, Dracunculus

Araliaceae - Hedera

Aristolochiaceae - Aristolochia, Asarum

Asclepiadaceae - Asclepias, Cionora, Cynanchum, Periploca, Vincetoxicum

Aspidiaceae - Dryopteris, Gymnocarpium, Polystichum

Aspleniaceae - Asplenium, Ceterach, Phyllitis

Asteraceae (Compositae) - Achillea, Adenostyles, Ambrosia, Antennaria, Anthemis, Actium, Artemisia, Aster, Asteriscus, Bellis, Bidens, Bombycilaena, Calendula, Carduus, Carlina, Carpesium, Carthamus, Centaurea, Cephalorrhynchus, Chamomilla, Chondrilla, Cicerbita, Cichorium, Cirsium, Cnicus, Conyzza, Crepis, Crupina, Dittrichia, Doronicum, Echinops, Erigeron, Eupatorium, Filaginella, Filago, Galinsoga, Gnaphalium, Hedyotis, Helichrysum, Hieracium, Homogyne, Hypochaeris, Inula, Iva, Jurinea, Lactuca, Lapsana, Leontodon, Leontopodium, Leucanthemella, Leucanthemum, Ligularia, Logfia, Matricaria, Mycelis, Omalotheca, Onopordum, Otanthus, Pallenis, Petasites, Picnomon, Picris, Prenanthes, Pilostemon, Pulicaria, Reichardia, Rhagadiolus, Saussurea, Scolymus, Scorzonera, Senecio, Serratula, Silybum, Solidago, Sonchus, Steptoehamphus, Tanacetum, Taraxacum, Telekia, Tolpis, Tragopogon, Tussilago, Tyrimnus, Urospermum, Xanthium, Xeranthemum

Athyriaceae - Athyrium, Cystopteris

Azollaceae - Azolla

Balsaminaceae - Impatiens

Berberidaceae - Berberis, Epimedium, Leontice, Mahonia

Betulaceae - Alnus, Betula, Carpinus, Corylus, Ostrya

Blechnaceae - Blechnum

Boraginaceae - Alkanna, Anchusa, Argusia, Asperugo, Buglossoides, Cerinthe, Cynoglossum, Echium, Heliotropium, Lappula, Lithospermum, Lycopsis, Myosotis, Neatostema, Nonea, Onosma, Pulmonaria, Rindera, Rochelia, Symphytum, Trachystemon

Brassicaceae (Cruciferae) - Aethionema, Alliaria, Alyssoides, Alyssum, Andrzejowskia, Arabidopsis, Arabis, Aubrieta, Aurinia, Barbarea, Bertero, Brassica, Bunias, Cakile, Calepina, Camelina, Capsella, Cardamine, Cardaminopsis, Cardaria, Chorispora, Clypeola, Conringia, Coronopus, Crambe, Descurainia, Diplotaxis, Draba, Erophila, Eruca, Erysimum, Euclidium, Fibigia, Hesperis, Hornungia, Hymenolobus, Iberis, Isatis, Kernera, Lepidium, Lunaria, Malcolmia, Maresia,

- Matthiola, Myagrum, Nasturtium, Neslia, Pritzelago, Raphanus, Rapistrum,
 Rorippa, Schivereckia, Sinapis, Sisymbrium, Subularia, Teesdalia, Thlaspi
Butomaceae - Butomus
Callitrichaceae - Callitriche
Campanulaceae - Asyneuma, Campanula, Edraianthus, Jasione, Legousia, Phyteuma,
 Symphyandra, Trachelium
Cannabaceae - Cannabis, Humulus
Capparidaceae - Cleome
Caprifoliaceae - Lonicera, Sambucus, Viburnum
Caryophyllaceae - Agrostemma, Arenaria, Bufonia, Cerastium, Corrigiola, Cucubalus,
 Dianthus, Gypsophila, Herniaria, Holosteum, Lychnis, Minuartia, Moehringia,
 Moenchia, Myosoton, Paronychia, Petrorhagia, Pirinia, Polycarpon, Queria,
 Sagina, Saponaria, Scleranthus, Silene, Spergula, Spergularia, Stellaria,
 Vaccaria, Velezia, Viscaria
Celastraceae - Evonymus
Ceratophyllaceae - Ceratophyllum
Chenopodiaceae - Atriplex, Bassia, Beta, Camphorosma, Ceratocarpus, Chenopodium,
 Corispermum, Halimione, Kochia, Petrosimonia, Polycnemum, Salicornia,
 Salsola, Suaeda
Cistaceae - Cistus, Fumana, Helianthemum, Rhodax, Xolanthes
Convolvulaceae - Calystegia, Convolvulus, Cressa
Cornaceae - Cornus
Crassulaceae - Crassula, Jovibarba, Rhodiola, Sedum, Semperfivum, Umbilicus
Cryptogrammaceae - Cryptogramma
Cucurbitaceae - Bryonia, Citrullus, Ecballium, Echinocystis, Sicyos
Cupressaceae - Juniperus
Cuscutaceae - Cuscuta
Cyperaceae - Acorellus, Blysmus, Bolboschoenus, Carex, Cladium, Cyperus,
 Dichostylis, Eleocharis, Elyna, Eriophorum, Fimbristylis, Galilea, Holoschoenus,
 Isolepis, Pycreus, Schoenoplectus, Schoenus, Scirpus, Trichophorum
Dioscoreaceae - Tamus
Dipsacaceae - Cephalaria, Dipsacus, Knautia, Pterocephalus, Scabiosa, Succisa,
 Tremastelma
Droseraceae - Aldrovanda, Drosera
Elaeagnaceae - Eleagnus, Hippophae
Elatinaceae - Elatine
Empetraceae - Empetrum
Ephedraceae - Ephedra
Equisetaceae - Equisetum
Ericaceae - Arbutus, Arctostaphylos, Bruckenthalia, Calluna, Erica, Rhododendron,
 Vaccinium
Euphorbiaceae - Acalypha, Andrachne, Chrozophora, Euphorbia, Mercurialis
Fabaceae (Papilionaceae) - Anthyllis, Astracantha, Astragalus, Biserrula, Caragana,
 Cercis, Chamaecytisus, Chamaespartium, Cicer, Colutea, Coronilla,
 Corothamnus, Dorycnium, Galega, Genista, Glycyrrhiza, Hedysarum,
 Hippocrepis, Hymenocarpus, Lathyrus, Lembotropis, Lens, Lotononis, Lotus,
 Lupinus, Medicago, Melilotus, Onobrychis, Ononis, Ornithopus, Oxytropis,
 Pisum, Robinia, Sarothamnus, Scorpiurus, Securigera, Tetragonolobus,
 Trifolium, Trigonella, Vicia
Fagaceae - Castanea, Fagus, Quercus
Frankeniaceae - Frankenia
Gentianaceae - Blackstonia, Centaurium, Gentiana, Gentianella, Swertia
Geraniaceae - Erodium, Geranium
Gesneriaceae - Haberlea, Ramonda
Globulariaceae - Globularia
Haloragaceae - Myriophyllum
Hippocastanaceae - Aesculus
Hippuridaceae - Hippuris
Hydrocharitaceae - Elodea, Hydrocharis, Stratiotes, Vallisneria

- Hypericaceae** (*Guttiferae*) - Hypericum
- Hypolepidaceae** - Pteridium
- Iridaceae** - Crocus, Gladiolus, Iris, Romulea
- Isoetaceae** - Isoetes
- Juglandaceae** - Juglans
- Juncaceae** - Juncus, Luzula
- Juncaginaceae** - Triglochin
- Lamiaceae** (*Labiatae*) - Acinos, Ajuga, Ballota, Calamintha, Clinopodium, Dracocephalum, Galeopsis, Glechoma, Hyssopus, Lamium, Lavandula, Leonurus, Lycopus, Marrubium, Melissa, Melittis, Mentha, Micromeria, Nepeta, Origanum, Phlomis, Prunella, Salvia, Satureja, Scutellaria, Sideritis, Stachys, Teucrium, Thymus, Ziziphora
- Lemnaceae** - Lemna, Spirodela, Wolffia
- Lentibulariaceae** - Pinguicula, Utricularia
- Liliaceae** - Allium, Anthericum, Asparagus, Asphodeline, Asphodelus, Bellevalia, Colchicum, Convallaria, Erythronium, Fritillaria, Gagea, Hyacinthella, Lilium, Lloydia, Merendera, Muscari, Nectaroscordum, Ornithogalum, Paris, Polygonatum, Ruscus, Scilla, Streptopus, Tulipa, Veratrum
- Linaceae** - Linum, Radiola
- Loranthaceae** - Arceutobium, Loranthus, Viscum
- Lycopodiaceae** - Diphasiastrum, Huperzia, Lycopodiella, Lycopodium
- Lythraceae** - Ammannia, Lythrum, Middendorfia, Peplis
- Malvaceae** - Abutilon, Alcea, Althaea, Hibiscus, Lavatera, Malva, Malvella
- Marsileaceae** - Marsilea
- Menyanthaceae** - Menyanthes, Nymphoides
- Molluginaceae** - Glinus, Mollugo
- Monotropaceae** - Monotropa
- Moraceae** - Broussonetia, Ficus, Morus
- Morinaceae** - Morina
- Najadaceae** - Najas
- Nymphaeaceae** - Nuphar, Nymphaea
- Oleaceae** - Fraxinus, Jasminum, Ligustrum, Phillyrea, Syringa
- Onagraceae** - Circaeа, Epilobium, Ludwigia, Oenothera
- Ophioglossaceae** - Botrychium, Ophioglossum
- Orchidaceae** - Anacamptis, Cephalanthera, Coeloglossum, Corallorrhiza, Cypripedium, Dactylorhiza, Epipactis, Epipogium, Goodyera, Gymnadenia, Hammarbya, Herminium, Himantoglossum, Limodorum, Liparis, Listera, Neottia, Nigritella, Ophrys, Orchis, Platanthera, Pseudorchis, Serapias, Spiranthes, Traunsteinera
- Orobanchaceae** - Orobanche
- Osmundaceae** - Osmunda
- Oxalidaceae** - Oxalis
- Paeoniaceae** - Paeonia
- Papaveraceae** - Chelidonium, Corydalis, Fumaria, Glaucium, Hypocoum, Papaver, Roemeria
- Pinaceae** - Abies, Picea, Pinus, Pseudotsuga
- Plantaginaceae** - Plantago
- Platanaceae** - Platanus
- Plumbaginaceae** - Armeria, Goniolimon, Limonium, Plumbago
- Poaceae** (*Gramineae*) - Achnatherum, Aegilops, Aeluropus, Agropyron, Agrostis, Aira, Alopecurus, Ammophila, Anthoxanthum, Apera, Arrhenatherum, Avena, Avenula, Beckmannia, Bellardiochloa, Brachiaria, Brachypodium, Briza, Bromus, Calamagrostis, Catabrosa, Chrysopogon, Cleistogenes, Corynephorus, Cyparis, Cynodon, Cynosurus, Dactylis, Danthonia, Danthoniastrum, Dasypyrum, Deschampsia, Desmazeria, Dichanthium, Digitaria, Echinaria, Echinochloa, Eleusine, Elymus, Eragrostis, Erianthus, Festuca, Festucopsis, Festulolium, Gastridium, Gaudinia, Glyceria, Hainardia, Hierochloe, Holcus, Hordeolum, Hordeum, Imperata, Koeleria, Lagurus, Leersia, Lerchenfeldia, Leymus, Lolium, Lophochloa, Melica, Micropyrum, Milium, Molineriella, Molinia, Nardus, Parapholis, Parvotrisetum, Paspalum, Phacelurus, Phalaris, Phleum,

Pholiurus, *Phragmites*, *Piptatherum*, *Poa*, *Polypogon*, *Psilurus*, *Puccinellia*,
Sclerochloa, *Secale*, *Sesleria*, *Setaria*, *Sieglungia*, *Sorghum*, *Sporobolus*, *Stipa*,
Taeniatherum, *Trachynia*, *Tragus*, *Trisetum*, *Triticum*, *Ventenata*, *Vulpia*

Polygalaceae - *Polygala*

Polygonaceae - *Bilderdykia*, *Bistorta*, *Fallopia*, *Oxyria*, *Persicaria*, *Pleuropteropyrum*,
Polygonum, *Rheum*, *Rumex*

Polypodiaceae - *Polypodium*

Portulacaceae - *Montia*, *Portulaca*

Potamogetonaceae - *Groenlandia*, *Potamogeton*

Primulaceae - *Anagallis*, *Androsace*, *Asterolinon*, *Cortusa*, *Cyclamen*, *Hottonia*,
Lysimachia, *Primula*, *Samolus*, *Soldanella*

Pyrolaceae - *Moneses*, *Orthilia*, *Pyrola*

Rafflesiaceae - *Cytinus*

Ranunculaceae - *Aconitum*, *Actaea*, *Adonis*, *Anemone*, *Aquilegia*, *Caltha*,
Ceratocephalus, *Clematis*, *Consolida*, *Delphinium*, *Eranthis*, *Helleborus*,
Hepatica, *Isopyrum*, *Myosurus*, *Nigella*, *Pulsatilla*, *Ranunculus*, *Thalictrum*,
Trollius

Resedaceae - *Reseda*

Rhamnaceae - *Frangula*, *Paliurus*, *Rhamnus*, *Zizyphus*

Rosaceae - *Agrimonia*, *Alchemilla*, *Amelanchier*, *Amygdalus*, *Aphanes*, *Aremonia*,
Cotoneaster, *Crataegus*, *Dryas*, *Duchesnea*, *Eriolobus*, *Filipendula*, *Fragaria*,
Geum, *Laurocerasus*, *Malus*, *Mespilus*, *Potentilla*, *Prunus*, *Pyracantha*, *Pyrus*,
Rosa, *Rubus*, *Sanguisorba*, *Sibbaldia*, *Sorbus*, *Spiraea*, *Waldsteinia*

Rubiaceae - *Asperula*, *Crucianella*, *Cruiciata*, *Galium*, *Rubia*, *Sherardia*

Ruppiaceae - *Ruppia*

Rutaceae - *Dictamnus*, *Haplophyllum*, *Ruta*

Salicaceae - *Populus*, *Salix*

Salviniacae - *Salvinia*

Santalaceae - *Comandra*, *Osyris*, *Thesium*

Saxifragaceae - *Chrysosplenium*, *Parnassia*, *Ribes*, *Saxifraga*

Scrophulariaceae - *Bartsia*, *Bellardia*, *Chaenorhinum*, *Cymbalaria*, *Digitalis*,
Euphrasia, *Gratiola*, *Kickxia*, *Lathraea*, *Limosella*, *Linaria*, *Lindernia*,
Melampyrum, *Mimulus*, *Misopates*, *Odontites*, *Parentucellia*, *Pedicularis*,
Rhinanthus, *Rhynchocorys*, *Scrophularia*, *Tozzia*, *Verbascum*, *Veronica*

Selaginellaceae - *Selaginella*

Sinopteridaceae - *Cheilanthes*

Smilacaceae - *Smilax*

Solanaceae - *Atropa*, *Datura*, *Hyoscyamus*, *Lycium*, *Nicandra*, *Physalis*, *Solanum*

Sparganiaceae - *Sparganium*

Staphyleaceae - *Staphylea*

Tamaricaceae - *Myricaria*, *Tamarix*

Taxaceae - *Taxus*

Theligonaceae - *Theligonum*

Thelypteridaceae - *Thelypteris*

Thymelaeaceae - *Daphne*, *Thymelaea*

Tiliaceae - *Tilia*

Trapaceae - *Trapa*

Typhaceae - *Typha*

Ulmaceae - *Celtis*, *Ulmus*

Urticaceae - *Parietaria*, *Urtica*

Valerianaceae - *Centranthus*, *Valeriana*, *Valerianella*

Verbenaceae - *Verbena*, *Vitex*

Violaceae - *Viola*

Vitaceae - *Parthenocissus*, *Vitis*

Zannichelliaceae - *Zannichelia*

Zosteraceae - *Zostera*

Zygophyllaceae - *Peganum*, *Tribulus*, *Zygophyllum*

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