

## THE FLORA AND VEGETATION OF THE MUREȘ (MAROS) VALLEY

CONSTANTIN DRĂGULESCU

### Introduction

Having its springs in the Oriental Carpathians, running across the Transylvanian Plateau, separating the Occidental Carpathians from the Meridional ones and finally flowing through the plain from western Romania and eastern Hungary, the Mureș and its valley include several various ecotopes with a rich flora and diverse vegetation.

Although some botanical investigations were done in the Mureș Valley by J. Lerchenfeld and P. Sigerus as early as the 18th century (Herb. Sibiu), the first pieces of botanical information were given by J. Chr. G. Baumgarten (1816), P. Kitaibel (1863), E. Schur (1866), E. Porcius (1878), A. Cserni (1879), L. Walz (1878), J. Csató (1896), A. Halász (1889) and particularly by M. Fuss (1866) and L. Simonkai (1886, 1893).

During the 20th century floristic and phytocenological research was conducted by E. I. Nyárády (1914, 1931), I. Prodan (1928), L. Timár (1952, 1957), R. Soó (1938, 1940, 1943), St. Csűrös (1956, 1970), E. Pop (1960), Al. Borza, V. Lupșa (1964-1965, 1968), I. Gergely (1964), Fl. Rațiu (1968, 1969, 1971, 1972), I. Pop (1978, 1979), E. Täuber (1973, 1986), R. Samu (1982) and others. "Flora R.P.R.", respectively "Flora R.S.R.", collating the results of these botanists, returned 915 species of cormophytes in the Mureș Valley.

This study presents an enumeration of the flora and vegetation which grows in the Mureș river valley, from its spring (Izvorul Mureșului) to its confluence with the Tisza River (Szeged).

### Methods

In order to offer a floristic-phytocenologic and ecological characterization as detailed as possible of this river, and, also to reduce the dimensions of our study especially of the chorological informations (the river runs through more than 100 localities), we divided the whole water course of the river into five segments (sectors), pointed out in the study by roman numerals I through V: I. Izvorul Mureșului- Toplița, respectively the Depression of Giurgeu (Gheorgheni); II. Toplița-Deda, which corresponds to the Mureș Strait between the Mts. of Călimani and Gurghiu; III. Deda-Alba Iulia or the central-Transylvanian water course of the Mureș; IV Alba Iulia-Lipova or the Mureș Corridor between the Occidental Carpathians (Metalliferous and Zărand Mts.) and the Meridional Carpathians (Sureanu Mts., Poiana Ruscă Mts.); V. Lipova-Szeged, the flatland course of the river.

These segments distinguish themselves not only by discharge and water speed of the river, but also by its level of pollution, by zooanthropic influences on woody and grassy

vegetation which grows on both banks of the waterway, by the geological structure, the geomorphology of the valley, etc.

Relying on the consulted bibliography and after our site investigations, we drew up a card index of species and plant associations. The index was set up according to the phylogenetic system used in "Flora R.S.R." from which we also adopted the names of the species with the underlined corrections in volume XIII. Each plant species is accompanied by its ecological indices (humidity, temperature and soil reaction), the life strategy (life form), the floristic element (geoclement) and the waterway segment where it grows. The value of the ecological indices is given according to R. Soó (1964-1980) and V. Sanda et al. (1983).

Classification of the life forms follows C. Raunkiaer's system, developed by J. Braun-Blanquet (1951). The determination of the floristic elements was carried out according to the works of R. Soó (1964-1980) and V. Sanda et al. (1983).

For vegetation analysis we adopted J. Braun-Blanquet's method, adjusted for conditions in Romania and Hungary. The classification of the plant associations is in accordance with the systems of E. Oberdorfer (1970,1977) and R. Soó (1964-1980). By each plant association, the waterway segment is marked where they occur.

#### *Abbreviations in the text*

Life-forms: Ph- phanerophyte (MPh- megaphanerophyte, mPh- mezophanerophyte, nPh- nanophanerophyte); Ch- chamaephyte; H- hemicytophyte; G- geophyte; T- therophyte (Th- annual, TH- biennial); Hh- helohydrotophyte; Ep- epiphyte.

Floristic elements: Cosm- cosmopolitan; Cp- circumpolar; Eua- Eurasian; E- European; Ec- Central-European; Atl-M- Atlantic-Mediterranean; M- Mediterranean; MP- Mediterranean-pontic; P- Pontic; Pn- Pannonic; B- Balcanic; D- Dacic; Carp-Carpathic; Alp- Alpin; Cauc- Caucasian; Anat- Anatholian; Adv- adventive.

Ecological indexes: H- humidity; T- temperature; R- soil reaction.

I, II, III, IV, V- waterway segments of Mureş.

The mark (!) indicates that plant (or association) was noticed by the author.

## **Results**

### *The flora of the Mureş Valley*

After volumes I-XIII of "Flora R.S.R." had been issued, 472 species were newly identified by us and also published by different botanists. Our research, correlated to the data published by other authors (see References), point out 1316 species of higher plants (cormophytes) plus 71 hybrids (altogether 1387 items), to which must be added 60 subspecies, 231 varieties and 168 forms. These taxa belong to 502 genera of 117 families. Among genera *Carex* (53 species), *Hieracium* (32 species), *Euphorbia* (25 species), *Centaurea*, *Ranunculus* (22-22 species), *Veronica* (21 species), *Rumex*, *Trifolium* (19-19 species), *Silene* (17 species), *Chenopodium*, *Cirsium* (14-14 species), *Juncus*, *Salix*, *Viola* (13-13 species), *Potentilla*, *Senecio* (12-12 species), *Potamogeton* (11 species), *Rorippa* and *Vicia* (11-11 species) are better represented. The families richest in species are Asteraceae

(206 species), Poaceae (100 species), Cyperaceae (68 species), Brassicaceae (67 species), Caryophyllaceae (65 species), Fabaceae (64 species), Rosaceae (54 species), Lamiaceae, Ranunculaceae (52-52 species), Scrophulariaceae (51 species), Apicaceae (49 species), Liliaceae (37 species), Chenopodiaceae (32 species) and Polygonaceae (31 species).

From all the 1846 referred taxa, 220 spp. are considered to be rare or protected plants, such as *Botrichium multifidum*, *Marsilea quadrifolia*, *Taxus baccata*, *Betula humilis*, *Betula* × *warnstorffii*, *Silene* × *grecescui*, *Euphorbia* × *csatoi*, *Trollius europaeus*, *Nymphaea alba*, *Nuphar luteum*, *Elatine alsinastrum*, *Sempervivum heuffelii*, *Ribes heteromorphum*, *Spiraea salicifolia*, *Trapa natans*, *Vitis silvestris*, *Pleurospermum austriacum*, *Cnidium dubium*, *Lysimachia thyrsiflora*, *Pedicularis sceptrum-carolinum*, *Plantago schwarzenbergiana*, *Nymphoides peltata*, *Bryonia dioica*, *Achillea* × *girgioensis*, *Petasites* × *celakovsky*, *Ligularia sibirica*, *Centaurea* × *nyaradiana*, *Hieracium* × *auriculoides*, *Typha laxmannii*, *Lilium martagon*, *Fritillaria melcagris*, *F. montana*, *Scilla autumnalis*, *Streptopus amplexifolius*, *Tamus communis*, *Iris nyaradyana*, *Traunsteinera globosa*, *Calla palustris*, *Arum maculatum*. The 1316 species from the following list were analysed by ecological preferences (humidity, temperature, soil reaction), life strategies (life forms) and the floristic element to which they belong in order to give a characterization of the flora of the Mureş Valley from spring to mouth, as accurate and detailed as possible.

### *The flora*

#### LYCOPODIACEAE

1. *Lycopodium annotinum* L.: I-II (22, 23); Ch, Cp; H4T2.5R2

#### EQUISETACEAE

2. *Equisetum arvense* L.: I-V; G, Cosm; H3T3R0  
- f. *obtusatum* Kluge: IV-V (43,!)
3. *E. fluviatile* L. (*E. limosum* L.): I-III (6,23,31,22,14,!); Hh,Cp; H5T3R0
4. *E. hiemale* L.: II (14); G, Cp; H3.5T2.5R4
5. *E. × littorale* Kuhl. (*arvense* × *fluviatile*): III (5,14);
6. *E. palustre* L.: I-V; G, Cp; H5T2R0
7. *E. pratense* Ehrh.: II (14); G, Cosm; H3.5T2.5R4
8. *E. ramosissimum* Desf.: III-V (14,5,36,40,25,18); G, Cosm; H2T0R0  
- f. *simplex* (Doll)Milde: III (14)
9. *E. silvaticum* L.: I (14,23,30,!); G, H3.5T2R0
10. *E. telmateja* Ehrh. (*E. maximum* Lam.): II-IV (22,14,!); G, Cp; H3.5T2R0

#### OPHIOGLOSSACEAE

11. *Ophioglossum vulgatum* L.: I (14), V (37,40,14); G, Cp; H4T3R0
12. *Botrychium lunaria* (L.)Sw.: I (14); G, Cosm; H2.5T2R0
13. *B. multifidum* (S.G.Gmel.)Rupr.: I (14); G, Cp; H2.5T2R0

#### HYPOLEPIDACEAE

14. *Pteridium aquilinum* (L.)Kuhn: II-V (22,14,25,40,!); G, Cosm; H3T3R0

#### ASPLENIACEAE

15. *Asplenium adiantum-nigrum* L.: III-IV (14,29,25,43); H, E; H2.5T3R3

- f. *argutum* Henil.: IV (14,25)

16. *A. ruta-muraria* L.: IV V (14,37,40,!); H, Cp; H1.5T3R5

17. *A. septentrionale* (L.)Hoffm.: II (14), IV (14,25); H, Cp; H1T3R2

18. *A. trichomanes* L.: II (22,!); IV (14,37,25,5,!); H, Cp; H3T0R4

19. *Phyllitis scolopendrium* (L.)Newman: II (14,!), IV (14); G, Cp; H3.5T3R5

#### ATHYRIACEAE

20. *Athyrium filix-femina* (L.)Roth: I-II (14,22,23,30,!), IV (14,37,25,!); H, Cosm; H4T2.5R0

21. *Cystopteris fragilis* (L.)Bernh.: II (22,!), IV (14,37,25); H, Cosm; H3.5T0R0

- ssp. *fragilis* f. *anthriscifolia* (Hoffm.)Koch: IV (14) and f. *angustata* Koch: IV (14,37,25)

- ssp. *alpina* Hartm. (*C. regia* (L.)Presl.): IV (14)

22. *C. sudetica* A. Br. et Milde: II (22); H, Eua; H3.5T2R0

23. *Matteuccia struthiopteris* (L.)Tod.: II (22,!), IV (25); H,Cp; H4T2R0

#### ASPIDIACEAE

24. *Polystichum braunii* (Spenn.)Fee: II (14,22); H, Cp; H3.5T2.5R3

25. *P. sctiferum* (Forsk.)Woynar: IV (14,25); H, Cosm; H3.5T0R4

26. *Dryopteris carthusiana* (Vill.)H.P Fuchs (*D. spinulosa* O.F. Mull.): I (23); H, Cp; H4T3.5R0

27. *D. cristata* (L.)A. Gray: I (14,23,!); H, Cp; H3.5T2R3

28. *D. filix-mas* (L.)Schott: I-V; H, Cosm; H4T3R0

#### THELYPTERIDACEAE

29. *Thelyperis palustris* Schott (*Dryopteris thelypteris* (L.)A. Gray): I (23); Hh, Cp; H4T0R3

30. *T. phegopteris* (L.)Slasson (*Phegopteris polypodioides* Fee): I-II (22,23); G, Cp; H3.5T2R2

#### POLYPODIACEAE

31. *Polypodium vulgare* L.: II (22,!), IV (25); G, Cp; H3.5T3R4

#### MARSILEACEAE

32. *Marsilea* (*Marselia*) *quadrifolia* L.: IV (14,25,38); Hh, Eua (M); H6T3R0

#### SALVINIACEAE

33. *Salvinia natans* (L.)All.: IV V (37,25,38,14,!); Hh, Eua; H6T3R3

#### TAXACEAE

34. *Taxus baccata* L.: II (14,22); mPh, E; H3T3.5R4

#### PINACEAE

35. *Abies alba* Mill.: II (22); MPh, Ec; H4T3R0

36. *Picea abies* (L.)Karst.: I-II (22,14,!); MPh, E; H0T0R0

37. *Pinus silvestris* L.: I-II (22,14); MPh, Eua; H0T0R0

#### CUPRESSACEAE

38. *Juniperus communis* L.: I (6,23,30,!), IV (25); mPh, Cp; H2T0R0

#### EPHEDRACEAE

39. *Ephedra distachya* L.: III (14,4,5); mPh, Eua (C); H2T4.5R4.5

#### BETULACEAE

40. *Betula humilis* Schrank: I (23,31,32); mPh, Eua; H5T2.5R1

41. *B. x hybrida* Bechst. (*pubescens* x *pendula*): I (14,23,!);

42. *B. pendula* Roth (*B. verrucosa* Ehrh.): I-II (6,23,22,!), III (29), IV (5,25); MPh-mPh, Eua; H3T2R2

43. *B. pubescens* Ehrh.: I-II (14,23,6,30,31,32,!); MPh-mPh, Eua; H0T0R0

- f. *glabra* (Fieck.)Georgescu: I (14)

44. *B. x warnstorffii* C.K.Schneid. (*humilis* x *pubescens*): I (23);

45. *Alnus glutinosa* (L.)Gaertn.: I-V; Mph-mPh, Eua; H5T3R3

46. *A. incana* (L.)Mnch.: I-IV (30,22,14,!); MPh-mPh, Eua; H4T2R4

#### CORYLACEAE

47. *Carpinus betulus* L.: II-IV (14,22,29,5,!), V (40); MPh-mPh, E; H3T3R3

48. *Corylus avellana* L.: I-IV; mPh, E; H3T3R3

#### FAGACEAE

49. *Fagus sylvatica* L.: II (22,!); MPh-mPh, E; H3T3R0

50. *Quercus cerris* L.: IV V (14,37,25,24,27,!); MPh-mPh, M; H2T3.5R3

- f. *austriaca* (Willd.)Hegi: V (40)

51. *Q. frainetto* Ten.: IV (14,37,25); MPh, B; H2T4R3

52. *Q. petraea* (Matt.)Liebl.ssp. *petraea*: II-IV (22,29,5,25,!); MPh-mPh, E; H2.5T3R0

53. *Q. pubescens* Willd.: IV (14,25), III (14); MPh, M; H1.5T4R5

- var. *undulata* (Kit.)Schwz.: IV (43)

54. *Q. robur* L.: II-V; MPh, E; H3.5T3R0

- var. *tardiflora* Cernaiev: V (14,40)

- var. *puberula* (Lasch)Schwz.: V (40)

55. *Q. virgiliana* (Ten.) Ten.: I V (14,5); MPh, M; H2T4R4

#### SALICACEAE

56. *Populus alba* L.: III-V (14,24,18,!); MPh-mPh, Eua; H3.5T3R3  
 57. *P. x canescens* Sm. (*alba* x *tremula*): V (18,40,!);  
 58. *P. nigra* L.: III-V (14,25,27,40,!); MPh, Eua; H4T3R4  
 59. *P. tremula* L.: I-V; MPh-mPh, Eua; H3T2R2  
 60. *Salix alba* L.: I-V; Mph-mPh, Eua; H5T3R4  
 61. *S. aurita* L.: I (14); mPh, H4.5T0R2  
 62. *S. caprea* L.: III-V (23,27,5,!); mPh, Eua; H3T3R3  
 63. *S. cinerea* L.: I-V; mPh, Eua; H3T3R3  
 64. *S. daphnoides* Vill.: III (14); mPh, E; H4.5T2.5R4.5  
 65. *S. fragilis* L.: I-V; mPh-MPh, Eua; H4.5T3R4  
 66. *S. pentandra* L.: I-III (14,22,23,31,29,!); MPh, Eua; H4.5T0R3.5  
 67. *S. purpurea* L.: I-V; mPh, Eua; H5T3R4.5  
 - f. *angustifolia* Kern.: IV (25)  
 68. *S. rosmarinifolia* L.: I (14,23,6,32,!); mPh, Eua; H4T0R0  
 69. *S. x rubens* Schrank (*alba* x *fragilis*): V (40);  
 - var. *excelsior* (Host.)A. et G.: V (40,27)  
 - var. *palustris* (Host.)Scem: V (40)  
 70. *S. triandra* L.: I-V; mPh, Eua; H5T3R0  
 - f. *glaucophylla* Scr.: V (40)  
 - f. *semperflorens* (Host.)Beldie: I (!), V (40)  
 71. *S. x undulata* Ehrh. (*alba* x *triandra*): IV V (14,37,40);  
 72. *S. viminalis* L.: I-V; mPh, Eua; H5T2R4.5  
 - f. *tenuifolia* Kern.: I (23,!)

#### ULMACEAE

73. *Ulmus glabra* Huds. (*U. montana* Stokes): II (22), V (24,27,40); mPh-MPh, Eua; H4T3R3  
 74. *U. levis* Pall.: V (14,25,40,27,!); Mph-mPh, E; H4T3R3  
 75. *U. minor* Mill. (*U. foliacea* Gilib.): III-V (37,40,9.5,24,!); MPh, Eua; H3T3R4  
 - var. *minor* f. *carpinifolia* (Bokh.)Beldie: IV (25) and f. *suberosa* (Henry) Beldie: IV V (25,43,40,!)  
 - var. *stricta* (Lindl.)Rehd.: IV (25)  
 - var. *asperrima* Simk.: IV (43)

#### CANNABINACEAE

76. *Humulus lupulus* L.: I-V; H, Eua; H3.5T3R4

#### URTICACEAE

77. *Urtica dioica* L.: I-V; H-G, Cosm; H3T3R4  
 - f. *pubescens* (Ldb.)Trautv.: V (14)  
 78. *U. urens* L.: III-V (5,18,!); Th, Cosm; H3T3R4  
 79. *Parietaria officinalis* L.: IV (14,25); H, M; H4T3.5R4

#### SANTALACEAE

80. *Thesium alpinum* L.: I (14); H, E; H2.5T2R2.5  
 81. *T. arvense* Horvatovszky (*T. ramosum* Hayne): V (18.40); TH-H, Eua(C);  
 H1.5T3.5R4.5  
 82. *T. dollineri* Murb.: IV V (14,5,40); Th-H, P-B; H2T3R0  
 83. *T. linophyllum* L.: IV (14,5.!); G-H, Ec; H2T4R4

#### LORANTHACEAE

84. *Loranthus europaeus* Jacq.: III-V (14,37,25,40,29); Ch-nPh, E;H3T3.5R0  
 85. *Viscum album* L.: III-V (14,25.!); Ch-nPh,Eua; H3.5T3R0

#### POLYGONACEAE

86. *Polygonum amphibium* L.: I (31), III-V (29,5,25,40,!); G-Hh, Cosm; H6T3R0  
 - f. *aquaticum* (Leyss)Grint.: IV-V (25,40,14,!)  
 - f. *terrestre* (Leyss)Grint.: I (31)  
 87. *P. arenarium* W. et K.: IV (14,25); Th, P-Pn; H1T3.5R0  
 88. *P. aviculare* L.: I-V; Th, Cosm; H2.5T0R3  
 - var. *erectum* (Roth)Hayne: V (40)  
 89. *P. bistorta* L.: I-III (14,30,23,6,22,29.!); H,Eua; H4T2.5R3  
 - f. *puberulum* Beck: I (14)  
 90. *P. hydropiper* L.: I-V; Th, Eua (M); H4.5T3R4  
 91. *P. lapathifolium* L.: III-V (14,9,6,27,40.!); Th,Cosm; H4T0R4  
 - var. *tomentosum* (Schrank)Beck: III-V (14,26,40)  
 - f. *lanceolatum* (A.Br.)A. et G.: V (40)  
 - var. *brittingeri* (Opiz)Beck: V (14,40)  
 92. *P. minus* Huds.: III-V (14,5,25,40);Th, Eua; H5T3R4  
 93. *P. mite* Schrank: III (14), V (14,25,40); Th, Eua : H5T3R4  
 - f. *angustifolium* (A.Br.)Beck: III (14)  
 94. *P. persicaria* L.: III-V (29,14,27,25,40,!); Th, Eua; H4.6T3R0  
 95. *P. x subglandulosum* Borb. (*hydropiper* x *minus*): II (14);  
 96. *Bilderdykia convolvulus* (L.)Dumort (*Fagopyrum convolvulus* (L.) H. Gross): III-V  
 (14,5,25,18,47); Th, Eua; H2.5T3R3  
 97. *B. dumetorum* (L.) Dumort (*Fagopyrum* (L.)Schreb.): IV V (14,37,40,25,43.!); Th, Eua  
 (M); H2.5T3R3  
 98. *Rumex acetosa* L.: I-V; H, Cosm; H3T0R0  
 99. *R. acetosella* L.: I-V; H-G, Cosm; H2T3R2  
 - f. *multifidus* (L.)Prod.: I (14), III (14)  
 100. *R. x acutus* L. (*crispus* x *obtusifolius*): III (14,29), IV (14);  
 101. *R. aquaticus* L.: I (14,30,23,31,!); V (14); Hh, Cp; H4.5T0R4  
 102. *R. conglomeratus* Murray: III-V (14,40,27,5,!); H, Cp; H4T4R4  
 103. *R. crispus* L.: I-V; H, Eua; H4T3R0  
 104. *R. x erubescens* Simk. (*obtusifolius* x *patientia*). III (14);  
 105. *R. x heteranthos* Borb. [(*maritimus* x *conglomeratus*)x *stenophyllum*]:V (14,40);  
 106. *R. hydrolapathum* Huds.: III-V (14,29,5,40,!); H(G), E; H6T4R4  
 107. *R. x intercedens* Rech (*crispus* x *stenophyllum*) ssp. *aradensis* Prod.: V (14)

108. *R. kerneri* Borb.: V (14,25,40); H, D-Pn-B; H3T5R3  
 109. *R. maritimus* L.: III (14), V (14,40,!); Th, Eua; H5T3.5R4.5  
 110. *R. obtusifolius* L.: III-V (14,18,40,!); H, E; H4T0R3  
 - ssp. *silvestris* (Lam.)Rech: III-V (14,40)  
 - ssp. *transiens* (Simk.)Rech f.: III (14)  
 - ssp. *subalpinus* (Schur)Simk.: III, V (14)  
 111. *R. palustris* Sm. (*R. limosus* Thuill.): III-V (14,5,40,!); Th-TH,Eua;H5T3R4  
 112. *R. patientia* L.: I (14), II-V (5,25,14,40,!); H, Eua (C); H3T4R0  
 - ssp. *recurvatus* (Rech)Rech f.: I, III-IV (14)  
 113. *R. pulcher* L.: IV V (14,25,40); Th-TH, Atl-M; H4T3R3  
 114. *R. sanguineus* L.: III-V (14,37,25,!); H, E ; H4T3R4  
 - var. *viridis* (Sibth.)Koch: V (18,40)  
 115. *R. stenophyllus* Ldb.: III-V (14,34,18,45,!); H, Eua (C); H5T4R4  
 116. *R. x stenophylloides* Simk. (*maritimus* x *stenophyllus*): V (14,37,40)

#### CHENOPODIACEAE

117. *Polycnemum arvense* L.: IV V (14,25,47,40); Th, Eua (M); H2T3R3  
 118. *P. majus* A. Br.: III-V (14,5,40); Th, Eua (M); H1.5T4.5R4  
 119. *Chenopodium album* L.: I-V; Th, Cosm; H3T3R0  
 - ssp. *spicatum* (Koch)Nyár. var. *pracacutum* (Murr)Prod.: IV V (14,25)  
 - f. *laciniatum* (Murr)Prod.: V(14)  
 - ssp. *viride* (L.)Murr var. *rhombicum* Peterm.: III (14)  
 - ssp. *striatum* (Kras.)J. Murr (*C. strictum* Roth): V (47)  
 - f. *krasani* Beck: V (14)  
 120. *C. bonus-henricus* L.: I-V; H, E; H3.5T2R3  
 121. *C. botrys* L.: III-V (14,9,5,40,25,43); Th, Cosm; H3.5T4R0  
 122. *C. ficifolium* Sm.: III (14), V (14,40); Th, Eua (M); H3.5T4R0  
 123. *C. foliosum* (Mxch.)Aschers.: II (14); Th, Eua (M); H0T0R0  
 124. *C. glaucum* L.: III-V (29,5,14,45,!); Th,Eua; H3.5T4R0  
 125. *C. hybridum* L.: III-V (14,29,25,47,40); Th, Eua (M);H3T3R0  
 126. *C. murale* L.: III (14); Th, Adv; H2.5T4R0  
 127. *C. opulifolium* Schrad.: III-V (14,42,40); Th, Eua; H2T3.5R4  
 128. *C. polyspermum* L.: IV V (5,47,40,37); Th, Eua; H3T4R0  
 129. *C. rubrum* L.: III (14,42), V (14,40); Th, Cp; H3.5T0R0  
 - ssp. *blitoides* (Lej.)A. et G.: V (14,37,40)  
 130. *C. schraderianum* Schult.(*C. foetidum* Schrad.): III (14); Th, Adv; H2T3.5R4  
 131. *C. urbicum* L.: III-V (14,5,25,47); Th, Eua (M); H3T0R3  
 132. *C. vulvaria* L.: III-V (14,5,40); Th, Eua (M); H3T4R4  
 133. *Atriplex hastata* L.: III-V (14,37,40); Th,Cp; H3.5T0R0  
 - var. *microtheca* C.F.Schumach: V (40,47)  
 134. *A. littoralis* L.: III (14), V (14,45); Th, Eua (M); H0T0R0  
 135. *A. nitena* Schuhr.: III-V (14,25,40,!); Th, Eua (C); H3T3R0  
 136. *A. oblongifolia* W et K: III-IV (14,5,25); Th, Eua (C); H2T3.6R4  
 137. *A. patula* L.: III, V (14,18); Th,Cp; H0T0R0



- var. *angustifolia* (Sm.)Lange: V (14)
- var. *erecta* (Huds.)Lange: V (14,40)
- 138. *A. rosea* L.: III-V (14,37,40); Th, Eua (C);H3.5T3R3
- 139. *A. tatarica* L.: III (14), V (18,47); Th, Eua (M); H2T4R0
- 140. *Camphorosma annua* Pall. (*C. ovata* W et K.): V (13,18);Th, P-Pn: H2T4R5
- 141. *Kochia laniflora* (Gmel.)Borb.: IV (14); Th, Eua(C); H1.5T4.5R4.5
- 142. *K. prostrata* (L.)Schrad.: III (14,4); Ch-nPh,Eua (C);H1.5T4R4.5
- 143. *K. scoparia* (L.)Schrad.: III (14), V (14,40); Th, Eua (Adv);H3T3.5R0
- 144. *Corispermum nitidum* Kit.: IV (14); Th, P-Pn: H2.5T4R0
- 145. *Salicornia europaea* L. (*S. herbacea* L.): III (14,29,!);Th,Cosm; H4T0R5
- 146. *Salsola kali* L. ssp. *ruthenica* (Iljin)Soó (*S. ruthenica* Iljin): V (14,40); Th, Eua (C); H0T4R4
- f. *tenuifolia* Tauschin: V (40)
- 147. *Suaeda maritima* (L.)Dum.: V (18,40); Th, Cosm; H4.5T3.5R5
- 148. *Petrosimonia triandra* (Pall.)Simk.: III (14,29); Th, Eua(C); H2T4R4.5

#### AMARANTHACEAE

- 149. *Amaranthus albus* L.: III-V (9,25,47); Th,Adv; H3T3R3
- 150. *A. blitoides* S. Watson: V (46,47);Th,Adv; H2T4R0
- 151. *A. crispus* (Lesp. et Thev.)N. Terracc.: III-V (14,9,25,!);Th, Adv; H3T4R3
- f. *ruber* F. Zimm. et Thell.: III (14,!)
  - f. *macrophyllus* Deg. et Thell.: IV V (14)
- 152. *A. deflexus* L.: V (14,40); H, Adv; H2.5T4R4
- f. *scandens* (L. f.)Thell.: V(14)
- 153. *A. hybridus* L. (*A. hypochondriacus* L.): III (14), V (47);Th,Adv;H3T3R0
- var. *chlorostachys* (Willd.)Thell.: V (47)
- 154. *A. lividus* L.: III (14), V (14,40); Th, Cosm; H3.5T4R4
- var. *ascendens* (Lois)Thell.: V (37,40,18)
- f. *procumbens* (Spenn.)Morariu: III (14)
- 155. *A. retroflexus* L.: III-V (14,5,47,!); Th, Adv; H3T3R0

#### PORTULACACEAE

- 156. *Portulaca oleracea* L.: III-V (9,5,40,18,!); Th, Cosm; H3T0R0

#### CARYOPHYLLACEAE

- 157. *Myosoton aquaticum* (L.)Mnch. (*Stellaria aquatica* (L.)Scop.): III-V (9,29,14,25,27,18); Th-TH, Eua (M);H4T3R0
- 158. *Stellaria graminea* L.: I-V: H, Eua (M): H2.5T2R3
- 159. *S. holostea* L.: III-V (29,5,25,37,40,!);H-Ch, Eua: H3T3R0
- 160. *S. longifolia* Muhl.: I (23,32); H, Cp; H4.5T2R2
- 161. *S. media* (L.)Cyr.: I-V; Th-Th, Cosm;H3T0R0
- 162. *S. nemorum* L.:I-V; H, E; H3.5T3R3
- 163. *S. palustris* Ehrh.: IV (14,5); H, Eua; H4.5T3R3
- 164. *Cerastium arvense* L.: I (14), III (14,29), IV (5); Ch, Cp, H2.5T0R3.5

165. *C. brachypetalum* Desp.: III-V (14,37,47,40,!); Th, M; H3T3R0  
 - f. *strigosum* Fries: III (14)  
 - f. *taurinum* (Spr.)Prod.: IV V (14,40)
166. *C. dubium* (Bast.)Gucpin (*C. anomalum* W et K.): III-V (35,14,25); Th, P-M; H3T3R0
167. *C. fontanum* Baumg. ssp. *triviale* (Link.)Julas (*C. caespitosum* Gilib.): I-V: H-Ch, Cosm; H3T0R0
168. *C. glomeratum* Thuill.: IV V (5,37,40); Th, Cosm; H2.5T3R0
169. *C. pumilum* Curt.: IV V (5,25,37,40); Th, Eua (M); H2T3R0
170. *C. semidecandrum* L.: III-V (37,40,!); Th, E: H2T3.5R0
171. *Holosteum umbellatum* L.: III-V (15,14,29,5,25,18); Th, Eua (M); H2T3.5R0
172. *Sagina procumbens* L.: V (37,40,25,27,!); H(Ch), Cp; H4T3R3
173. *Arenaria procera* Spreng. ssp. *glabra* (F.N. Williams)Holub (*A. graminifolia* Schrad.): IV V (14,37,40); H, Eua (C); H2T3.5R4
174. *A. serpyllifolia* L.: III-V (5,25,37,40,18,!); Th, Cp; H2T2.5R0
175. *Moehringia muscosa* L.: I-II (22,14), IV (14,5,25); H, E: H4T2R4
176. *M. trinervia* (L.)Clairv.: III-V (15,29,5,25,40,!); Th-TH, Eua (M); H2.5T3R3
177. *Spergula arvensis* L. III-V (15,5,40,!); Th, Cosm; H3T0R0
178. *Spergularia marina* (L.)Grisb. (*S. salina* J. et C. Presl.): III-V(14,34,40,!); Th-TH, Eua; H2T3R2
179. *S. media* (L.)C. Presl. (*S. marginata* Kitt.): V (40); Th-H, Eua(M); H4T0R0
180. *S. rubra* (L.) J. et C. Presl.: V (37,40,!); Th (H), Cp; H4T3R4
181. *Herniaria glabra* L.: III-IV (14); Th-H, Eua(M); H2.5T3.5R3
182. *H. incana* Lam.: III-IV (14,5); H (Ch), Eua(M); H2T3.5R4.5
183. *Scleranthus annuus* L. ssp. *annuus*: II-V (22,5,14,25,!); Th, Eua; H2T3R2  
 - ssp. *polycarpus* (Torn.)Thell. (*S. polycarpus* Torn.): V (40); Th, E(M); H2T3R2
184. *S. perennis* L.: IV V (37,14,25,!); H-Ch, Eua; H3T0R3  
 - var. *dichotomus* (Schur)Prod.: IV (5)
185. *S. uncinatus* Schur: II (14); Th TH, Carp-B-Anat-Cauc; H3T2R0
186. *Agrostemma githago* L.: III-V (29,5,25,!); Th, Eua(M); H2T4R0
187. *Lychnis coronaria* (L.)Desr.: IV (14,25); H,M; H2.5T4R3
188. *L. flos-cuculi* L.: I-V; H, Eua; H3.5T2.5R0
189. *L. viscaria* L. (*Viscaria vulgaris* Rohl.): I-IV (6,22,34,29,25,!); H, Eua; H3T4R0
190. *Silene alba* (Mill.)E.H.L. Krause (*Melandrium album* (Mill.)Gaerke): III-V (5,18,!); Th-TH, Eua; H3.5T2R3
191. *S. armeria* L.: I-II (14,22,!); IV (14); Th, M; H2.5T4R3
192. *S. bupleuroides* L. (*S. longiflora* Ehrh.): III-V (14,29,40); H, P-M; H1.5T4.5R4
193. *S. conica* L.: III-IV (14,29,25); Th, Eua(M); H1T3.5R4
194. *S. dioica* (L.)Clairv. (*Melandrium rubrum* (Weig.)Gaerke): I-II (14); H, Eua; H3.5T0R4
195. *S. dubia* Herb.: II (48,22,!); H, Carp (End); H2T3R0
196. *S. flavescens* W et K.: IV (14,25); H, D-B-Pn; H2T3R4
197. *S. x grecescui* Gusul. (*nutans* x *viridiflora*): III (14);
198. *S. heuffelli* Soó (*Melandrium nemorale* (Heuff)A Br.): IV-V (35,14,25,24,!); Th-TH, Carp-B; H3.5T2R0

199. *S. italica* (L.)Pers.: I (!), IV (5,25); H, Eua (M); H3T0R3  
 - var. *nemoralis* (W et K.)Heuff.: I (14)
200. *S. multiflora* (Ehrh.)Pers.: IV (14); H, Eua (C); H3.5T3R4
201. *S. noctiflora* L. (*Melandrium noctiflorum* (L.)Fries: IV-V (5,40); Th-TH, Eua;  
 H2T3.5R0
202. *S. nutans* L.: I-IV (14,22,35,!); H, Eua; H2T3R4
203. *S. otites* (L.)Wib. ssp. *otites*: III-V (14,29,5,18,!); H, Eua (C);H1.5T4R4.5  
 - var. *pseudotites* (Bess.)Borb.: V (40)  
 - var. *effusa* (Otth.)Gusul.: III (14)
204. *S. viridiflora* L.: III-IV (14,5,25,!); H, M; H2T3.5R3
205. *S. viscosa* (L.)Pers. (*Melandrium viscosum* (L.)Celak.): III (14,29), V (40): Th-TH,  
 Eua (C); H2.5T3R4
206. *S. vulgaris* (Mnch.)Gaerke (*Behen vulgaris* Mnch.) ssp. *vulgaris*: III-V  
 (9,29,5,25,40,!); H (Ch), Eua; H3T3R4
207. *Cucubalus baccifer* L.: III-V (29,24,25,40,!); H, Eua; H3.5T3R4
208. *Gypsophila muralis* L.: III-V (14,5,25,!); Th, Eua(C); H2T3R2  
 - f. *ramosissima* (Schur)Prod.: III (14)  
 - f. *capillaris* Fiek et Schuber: IV (25)
209. *G. paniculata* L.: IV (14); G (Ch), Eua (C); H2T4R4.5
210. *Petrorhagia prolifera* (L.)P.WBall. et Heywood (*Tunica prolifera* (L.)Scop.: III-V  
 (14,29,25,37,40); Th,P-M; H1.5T4R3
211. *Vaccaria pyramidata* Medik.: V (18,40); Th, Eua (M); H3T3R0  
 -ssp. *graminiflora* (Fisch)Prod.: III (14), V (14,37,40)
212. *Dianthus armeria* L. ssp. *armeria*: IV V (25,24,40); Th-TH, E:H2T3R3  
 - f. *glaber* Scholz: IV (43)  
 - ssp. *armeriastrum* (Wolfn.)Velen. (*D. armeriastrum* Wolfn.): IV (14,25); Th-TH.  
 E:H2.5T4R0
213. *D. barbatus* L. ssp. *compactus* (Kit.)Tutin (*D. compactus* Kit.): II (14,!), IV (5); H,  
 Alp-Carp-B; H2.5T3.5R4  
 - f. *umbrosus* Nyár.: II (22,14,!)
214. *D. carthusianorum* L.: I-IV (6,22,29,5,!); H,E; H2T4.5R5  
 - ssp. *latifolius* (Gris. et Schenk)Hegi var. *parviflorus* Celak.: I (14)
215. *D. giganteus* D'Urv.: IV (14); H,B; H2.5T3R4  
 - f. *luxurians* Prod.: IV (14)
216. *D. kitaibelli* Janka ssp. *spiculifolius* (Schur)Sanda (*D. spiculifolius* Schur): IV (5,14);  
 H, Carp (End);H2T3.5R4
217. *D. pontederacae* Kern.: V (37,14,25,40); H, B-Pn; H2T5R5  
 - ssp. *giganteiformis* (Borb.)Soó (*D. giganteiformis* Borb.): I (14), V (14, 43,25); H, Pn;  
 H3T4R0
218. *D. puberulus* (Simk.)Kern.: III-IV (14,5,25); H, B; H2T4R4  
 - var. *laevigatus* (Simk.)Hand.-Mazz.: IV (14)
219. *D. superbus* L.: I (23,!); H, Eua; H3T0R0
220. *D. trifasciculatus* Kit.: III-IV (37,14,25); H, B; H3T3R3
221. *Saponaria officinalis* L.: II-V (29,5,37,14,25,!); H, Eua(M);H3T3R0

#### EUPHORBIACEAE

222. *Euphorbia amygdaloides* L.: IV (!); Ch, E(M); H3T3.5R4  
 223. *E. angulata* Jacq.: III-IV (14,35,5); H-G, P-M; H2.5T3R4.5  
 224. *E. x angustata* (Roch.) Borza (*salicifolia* x *virgata*); III, V (14);  
 225. *E. carniolica* Jacq.: IV (14.25); H, Ec; H3T4R4  
 226. *E. x csatoi* (Simk.) Borza (*agraria* x *paradoxa*); III (14);  
 227. *E. cyparissias* L.: III-V (29,5,33,18,!); H (G), Eua; H2T3R4  
 228. *E. dulcis* L.: III (29); H-G, Ec; H4T3R3  
 229. *E. epithymoides* L. (*E. polychroma* Kern.): III-IV (14,29,5,25); H, Pn-B; H2.5T4R3  
 230. *E. esula* L.: IV-V (37,14,25,40); H, Eua; H2T3R3  
 - var. *riparia* Schur: IV (14)  
 231. *E. exigua* L.: III (!); Th, E (M); H2.5T3.5R4.5  
 - f. *tricuspidata* (Lapeyr.) Borza: III (14,29)  
 232. *E. falcata* L.: III-V (29,14,5,40,!); Th, Eua (M); H2T3.5R4.5  
 233. *E. helioscopia* L.: III-V (35,29,5,25,18,!); Th, M; H3T3R0  
 234. *E. lucida* W et K.: IV V (14,18,47); H, E (C); H5T3R4  
 235. *E. maculata* L.: IV (14); Th, Adv; H2T3.5R4.5  
 236. *E. nicaeensis* All. (*E. pannonica* Host.): V (14,40); H, P-Pn-B; H1.5T5R5  
 237. *E. palustris* L.: IV V (37,14,5,40); H-Hh, E: H4.5T3.5R4.5  
 238. *E. x paradoxa* (Schur) Podp. (*esula* x *salicifolia*); III-V (14,25,40);  
 239. *E. platyphyllos* L.: IV V (25,40,!); Th, Ec(M); H3T3R3  
 240. *E. x pseudolucida* Schur (*lucida* x *virgata*); V (40);  
 241. *E. salicifolia* Host.: III-V (29,5,25,40,!); H, P-Pn; H2T3.5R3  
 242. *E. segetalis* L.: V (14,40); Th-H, M; H3T3.5R0  
 243. *E. seguieriana* Neck.: IV-V (14,5,25,40,!); H, Eua(M); H1T3.5R4  
 244. *E. stricata* L.: IV-V (25,40); Th, E(C); H4T3R5  
 245. *E. villosa* W et K.: III-V (14,5,37,25); H, P-M; H3T3.5R0  
 246. *E. virgata* W et K.: III-V (35,37,14,18,47,!); H, Eua(C); H2T4R3  
 - f. *angustissima* Schur: V (46)  
 247. *Mercurialis perennis* L.: II-V (22,29,25,!); H-G,E; H3.5T3R4

#### CALLITRICHACEAE

248. *Callitriche cophocarpa* Sendtn. (*C. polymorpha* Lomnr.): III-V (14,38,!); Hh, Eua;  
 H6T3R0  
 249. *C. palustris* L. em. Druce (*C. verna* L.): I (14,31,38); Hh, Cp; H6T3R0

#### RANUNCULACEAE

250. *Trollius europaeus* L.: I (30,6,23,14,!); III (14,29); H, E; H4T2R4  
 251. *Caltha palustris* L. ssp. *lacta* (Schott, Nyman et Kotschy) Hegi: I-V; H,E; H5T3R0  
 - var. *pseudocornuta* Zap.: I-II (14)  
 - var. *alpina* (Schur) Graebn.: I-IV (14,!)  
 252. *Helleborus purpurascens* W et K.: III-IV (14,29,25,!); H, Carp-B-Pn; H2.5T3R4  
 - f. *baumgartenii* (Kov) Nyár.: III-IV (14,25)

253. *Nigella arvensis* L.: III-V (14,29,25,18); Th, E(M); H2T4R4
254. *Isopyrum thalictroides* L.: III-V (15,29,14,24,25); G, Ec: H3T3.5R3
255. *Actaea spicata* L.: II-III (14,29); H, Eua; H3.5T3R3
256. *Consolida orientalis* (J.Gray) Schroding. (*Delphinium orientale* Gray): V (14,18,47,!);  
Th, Eua(C): H2.5T4R4.5
- f. *rhodochroa* (Soe)A.Ny r.: V (40)
257. *C. regalis* S.F.Gray (*Delphinium consolida* L.): III-V (15,29,5,25,18,!); Th, Eua;  
H2T4R4
258. *Aconitum anthora* L.: II-IV (37,14); H,E(C); H2T3R5
259. *A. firmum* Rehb. ssp. *multifidum* (Rehb.)Grint. (*A. multifidum* Rehb.): II (14); H,  
Carp-B-Sudet; H2.5T2.5R4.5
260. *A. moldavicum* Hacq.: I-II (22,14,!); H, Carp (End): H3T2R3
- var. *hacquetianum* G. Grint.: I-II (14)
- f. *piliferum* G. Grint.: II (14)
- var. *confusum* G. Grint.: II (14)
261. *A. toxicum* Rehb.: I (23,30,!); H,Carp-B; H4T2.5R4.5
262. *A. variegatum* L. ssp. *gracile* (Rehb.)Gay (*A. gracile* Rehb.): III (29,14); H, Alp-Carp;  
H4T2.5R4.5
263. *Anemone nemorosa* L.: I-V; G, E; H3.5T4R0
264. *A. ranunculoides* L.: II-V (22,29,40,!); G, E; H3.5T3R4
265. *A. silvestris* L.: III-IV (14,29); H, Eua (C); H, Eua(C); H2T3.5R4
266. *Hepatica nobilis* Mill.: II-IV (15,22,29,14,!); G, E; H3T3R4
267. *H. transilvanica* Fuss: I-II (14); G, Carp (End): H3T2R4
268. *Clematis alpina* (L.)Mill. (*Atragene alpina* L.): I-II (14,30,!); H(nph),Eua: H3T2R2
269. *C. integrifolia* L.: IV V (14,43,40,!); H,Eua (C); H3T3.5R5
270. *C. recta* L.: III-V (37,14,40,5,!); H, P-M: H2.5T3R4
271. *C. vitalba* L.: II-V (27,29,5,40,!); nPh, Ec (M); H3T3R3
272. *Myosurus minimus* L.: III-V (14,!); Th, Cp; H4T4R3
273. *Ceratocephalus testiculatus* (Cr.)Roth (*C. orthoceras* DC): III-V(14,5,40); Th, P-PN;  
H2T4R4.5
274. *Ranunculus acris* L.: I-V; H, Eua (M); H3.5R0R0
- f. *stipitatus* Ny r.: III (14)
- ssp. *strigulosus* (Schur)Hyl. (*R. stevenii* Andrz.): I (14,!); III-IV (5,14, 25); H-G, P-M;  
H3.5T2R3
- var. *friscanum* (Jord.)A.Ny r.: I (14)
275. *R. x alliariifolius* (Rehb.)A.Ny r. (*cassubicus* x *flabellifolius*): III (14)
276. *R. arvensis* L.: III-V (14,29,5,18,!); Th,Eua (M); H3T3R0
- var. *tuberculatus* (DC)Mert. et Koch: IV (5)
277. *R. auricomus* L.: I-V; H, Eua; H3.5T3R3
278. *R. bulbosus* L.: III-V (42,40,!); H-G, E; H2T3R3
279. *R. carpaticus* Herb.: II (14); G, Carp (End); H3.5T2R4
280. *R. cassubicus* L.: IV-V (24,25); H, E(C); H3.5T3R0
281. *R. x fallax* (Wimm. et Grab.)Kern. (*auricomus* x *cassubicus*): III (14),V (!);
- var. *incisifolius* (Rehb.)A.Nyár.: III, V (14)

282. *R. ficaria* L. (*Ficaria verna* Huds.) ssp. *ficaria*: I-V; H-G, Eua (M); H3.5T3R3  
 - ssp. *calthifolia* (Rchb.)Vel.: V (40); H-G, E: H3.5T3R3
283. *R. flammula* L.: I (6,23,!); II (!); H, Eua; H4.5T3R0  
 - f. *serratus* (DC)Prod.: I (14)
284. *R. lateriflorus* DC.: II (22), V (40); Th, Eua(C); H5T3R5
285. *R. lingua* L.: I (23), III (14), V (40); Hh, Eua; H6T3R4
286. *R. pedatus* W et K.: V (18,40); H-G, Eua (C); H1.5T3R4
287. *R. peltatus* Schrank (*Batrachium triphyllus* Waller.)Dum.: IV-V (14,40); Hh, E;  
 H6T3R0
288. *R. platanifolius* L.: I (14); H, E; H3.5T2.5R0
289. *R. polyanthemos* L.: I-V; H, Eua (c); H2.5T3R3
290. *R. repens* L.: I-V; H, Eua (M); H4T0R0
291. *R. orcophilus* M.B.: I (14); H, Alp-Carp-B; H2.5T4R4
292. *R. rionii* Lagg. (*Batrachium rionii* (Lagg.)Nym.): III (14), V (40); Hh, Eua (M); H6T3R
293. *R. sardous* Cr.: IV-V (5,47); Th-H, Eua; H3T3R4
294. *R. scleratus* L.: I (32), III-V (14,27,5,25,18,!); Th, Cp; H4.5T3R4
295. *R. trichophyllus* Chaix. (*Batrachium divaricatum* (Schrank)Schur): III-V  
 (14,5,25,34,40,18,!); Hh, E: H6T3R0
296. *Thalictrum aquilegifolium* L.: I-IV (6,23,22,6,29,!); H, E; H2.5T2.5R4
297. *T. lucidum* L.: I-V; H, Ec; H4.5T3R5  
 - var. *lucidum* f. *angustissimum* (Cr.)Nyár.: V (40)  
 - f. *peucedanifolium* (Gris. et Schenk)A. Nyár.: V (18,40)  
 - var. *stenophyllum* (Wimm. et Grab.)Hay: I-II (14)  
 - f. *subglabrum* (Simk.)Nyár.: V (37,14)  
 - var. *heterophyllum* (Wimm. et Grab.)Hay: I-IV (14,!)  
 - f. *scopolii-nigricans* Nyár.: I (23)
298. *T. flavum* L.: III-V (14,29,40); H, Eua; H4.5T0R4.5
299. *Adonis aestivalis* L.: III-V (15,29,5,25,18,47); Th, Eua (M); H3T4R3
300. *A. annua* L. (*A. autumnalis* L.): IV (14); Th, Adv; H2T3.5R3.5
301. *A. flammea* Jacq.: V (40); H, P-M; H2T3.5R3.5

#### ARISTOLOCHIACEAE

302. *Asarum europaeum* L.: III-IV (14,5,25); H-G, Eua; H3.5T3R4
303. *Aristolochia clematitis* L.: III-V (14,29,25,5,18,!); H-G, Ec (M); H2.5T3.5R5

#### BERBERIDACEAE

304. *Berberis vulgaris* L.: III-IV (15,29,14,5); mPh, E; H2T3R4

#### NYMPHAEACEAE

305. *Nuphar luteum* (L.)Sm.: III (14,29,!); Hh, Eua (M); H6T0R3.5  
 - var. *sericeum* (Lang)Kitt.: III (14)  
 - var. *tenellum* (Rchb.)Richt.: III (14)
306. *Nymphaea alba* L.: III (14), V(14,40,!); Hh, E (M); H6T0R4  
 - var. *minoriflora* (Borb.)A. et G.: V (40)

CERATOPHYLLACEAE

307. *Ceratophyllum demersum* L.: III-V (14,37,38,25,40,!); Hh, Cosm; H6T3R0  
 - f. *leve* Crepin: V (40,14)  
 308. *C. submersum* L.: III-V (37,14,40); Hh,Eua (M); H6T3.5R0  
 - var. *haynaldianum* (Borb.)Beck: V (14,40)

PAPAVERACEAE

309. *Glaucium corniculatum* (L.)J.H.Rudolph: III-V (14,29,25,40); Th-TH, M: H2T4R3  
 - var. *phoeniceum* (Cr.)DC: V (40)  
 310. *Chelidonium majus* L.: III-V (15,29,5,18,!); H, Eua: H3T3R4  
 311. *Papaver dubium* L.: IV-V (14,25,40); Th, M: H2T3.5R3  
 312. *P. rhoeas* L.: IV-V (5,14,18,!); Th, Eua (M); H3T3.5R4  
 - ssp. *strigosum* (Boenningh.)Simk. var. *verum* A. Ny r.: V (14)  
 - var. *trifidum* (O.Ktze.)Fedde: V (14)  
 - var. *agrivagum* (Jord.)Beck: IV-V (14)  
 - var. *magno-genuinum* Nyár.: IV (14,25)  
 313. *Corydalis bulbosa* (L.)Pers. (*C. cava* (L.)Schweigg. et Koerte):  
 - ssp. *cava*: III (14,29), V (40); G, Ec; H3T3R0  
 314. *C. capnoides* (L.)Pers.: I (14); Th-TH, Eua; H3T3R4  
 315. *C. solida* (L.)Sw: II-V (14,22,5,25,40); G, E: H3T3R0  
 316. *Fumaria officinalis* L.: III-V (29,14,5,40); Th, Eua (M); H3T0R.3.5  
 317. *F. rostellata* Knaf.: IV V (5,14,40); Th, Ec-B; H3T0R3.5  
 318. *F. schleicheri* Soyer-Willemet: I (14), III-V (14,5,18); TH,Eua(M);H2.5T4R4  
 319. *F. vaillantii* Lioscl.: III-V (5,14,18,4?,40); Th,Eua; H2.5T3.5R4.5

BRASSICACEAE (CRUCIFERAE)

320. *Sisymbrium altissimum* L.: III-IV (14); Th-TH, Eua(C); H2T3.5R0  
 321. *S. loeselii* Jusl.: III-V (14,5,25,37,40); Th-TH, Eua (C); H2.5T4R3  
 - f. *ciliatum* (Beck)Nyár.: III (14)  
 322. *S. officinale* (L.)Scop.: III-V (14,29,5,40,!); Th, Eua (M);H2.5T4R3  
 323. *S. orientale* Torn.: V (47,40); Th-TH, Eua (M); H2.5T4R3  
 - f. *hygrophilum* (Fourn.)Thell.: II (14)  
 324. *S. strictissimum* L.: III (14,29); H, Ec; H3.5T4R4.6  
 325. *Descurainia sophia* Webb. (*Sisymbrium sophia* L.): II-V (14,22,29,5,18,!); Th,Eua;  
 H2.5T4R4  
 326. *Alliaria petiolata* (M.B.)Cavara et Grande (*A. officinalis* Andrz.):III-  
 V(14,15,29,5,25,24,40,!); Th-TH,Eua (M): H3T3R4  
 327. *Arabidopsis thaliana* (L.)Heynh.: III-V (29,5,37,14,25,40); Th-TH, Eua(M); H2T3R3  
 328. *Myagrum perfoliatum* L.: III-V (14,5,40); Th, M; H2T4R3  
 329. *Isatis tinctoria* L.: III-V (29,25,14,40); H, P-Pn: H1.5T3.5R4  
 330. *Bunias erucago* L.: IV (14); TH, Adv; H3T3.5R3  
 331. *B. orientalis* L.: II-V (22,14,5,40); TH-H, Eua (C); H3T3.5R3  
 332. *Erysimum cheiranthoides* L.: II-V (14,29,5,18); Th, Cp; H3T0R4

333. *E. odoratum* Ehrh. (*E. pannonicum* Cr.): IV V (5,14,40);H-Th,P; H2.5T3R4  
 - var. *speciosum* Nyár.: I (14)
334. *E. repandum* Hojer: III-V (15,29,14,18,!); Th, Eua (C); H2.5T4R4.5
335. *Hesperis silvestris* Cr.: III-V (14,29); H, M-P; H4T2R3  
 - var. *runcinata* (W et K.)Borb.: III (14), V (40)
336. *Euclidium syriacum* (L.)R.Br.: V (40); Th, Eua (C); H2T4R4
337. *Barbaraca vulgaris* R. Br.: I (14), III-V (14,40,5,29,34); TH-H,Eua (M); H3.5T3R3
338. *Rorippa amphibia* (L.)Bess.: III-V (14,29,25,18);Hh,Eua (M); H6T3R4
339. *R. x armoracioides* (Tsch.)Fuss (*austriaca x silvestris*): III-V (14,40);  
 - var. *integrifolium* (Tsch.)Nyár.: III (14), V (40)  
 - var. *semisilvestris* Borb.: III(14)  
 - var. *pinnatifida* (Tsch.)Borb.: III-V (14,40)
340. *R. austriaca* (Cr.)Bess.: II-V (22,14,%,18); H-G, Ec; H4T3.5R4  
 - var. *angustifolia* (Schur)Nyár.: V (14)
341. *R. x barbaraeoides* (Tsch.)Cel. (*islandica x silvestris*): III (14)  
 - var. *capillipes* Borb.: III-V (14)  
 - var. *reichenbachii* Knaf III (14), V (40)  
 - f. *pubescens* (Borb.)Nyár.: III (14)  
 - f. *arenaria* (Knaf)Nyár.: III (14)  
 - f. *macrostylis* (Tsch.)Nyár.: III (14)
342. *R. x hungarica* Borb. (*amphibia x austriaca*): V (40)  
 - var. *riparia* (Simk.)Nyár.: V (37,14,40)
343. *R. islandica* (Oed.)Borb.: I (14,!); III-V (14,29,27,25,40,!); Th-TH, Cosm; H5T3R4
344. *R. x permixta* Borb. (*barbaraeoides x silvestris*): III (14)
345. *R. prolifera* (Hcuff.)Neilr.: IV (14); TH, B; H4T4R4
346. *R. pyrenaica* (L.) Rechb.: II-IV (14,22,5,!); H, M; H2.5T3R3
347. *R. silvestris* (L.)Bess.: I-V; H-G, E; H4T3R4  
 - f. *dentata* (Koch)Borb.: I,III (14)  
 - f. *tenuifolia* (Tsch.)Beck: III (14)  
 - f. *densiflora* Borb.: III (14)
348. *R. x stenophylla* Borb. (*silvestris x pyrenaica*): III (14)
349. *Armoracia macrocarpa* (W et K.)Baumg.: V (18); H, Pn; H3T3.5R0
350. *A. rusticana* (Lam.)G.M.Sch.: III-V (14,40,!); G (H)Adv; H3T3.5R0
351. *Nasturtium officinale* R. Br.: III-IV (29,5); Hh, Cosm; H5T2.5R4
352. *Cardamine amara* L.: I (30), IV (14); H, Eua (M); H5T0R0
353. *C. glanduligera* Schw. (*Dentaria glandulosa* W et K.): I-II (14,22,23); G, Carp (End);  
 H4T2.5R4
354. *C. impatiens* L.: II-V (22,14,25,27); Th-TH, Eua (M); H4T3R3
355. *C. pratensis* L. ssp. *pratensis*: I-V; H, Cp; H5T3R0  
 - var. *grandiflora* Neilr.: IV (14)  
 - var. *palustris* W et Gr.: V (14,40)  
 - ssp. *matthiolii* (Moretti)Soé (*C. matthiolii* Moretti, *C. hayneana* Welw.): II (14), IV (25), V (40)
356. *Cardaminopsis arenosa* (L.)Hay: II (22,140), IV V (37,14,40);TH-H,Ec; H2.6T3R4



- var. *perturbata* Nyár.: II (14)
- var. *segetalis* (Schur)Nyár.: III (14)
- 357. *Arabis glabra* (L.)Bernh. (*Turritis glabra* L.): II-IV (22,14,29,5,25,!); TH, Cp; H2T3R3
- 358. *A. hirsuta* (L.)Scop. ssp. *hirsuta*: III-V (14); TH-H, Cp; H1.5T3R4
- f. *sagittata* (Betol.)Tuzs.: V (14,37,40)
- 359. *Alyssum alyssoides* (L.)L.: II (22), IV (5), V (40); Th-TH, E (C); H1T3R0
- 360. *A. desertorum* Stapf.: V (40,14); Th, Eua (C); H1.5T4R4
- 361. *Berteroa incana* (L.)DC.: III-IV (29,6,25,!); Th-TH, Eua (C); H2T3.5R0
- 362. *Draba muralis* L.: II (22,14,!), III (29); Th, E (M); H2.5T3.5R4.5
- 363. *D. nemorosa* L.: I (14), III-V (14,5,40); Th,Cp: H3T0R4.5
- 364. *Camelina alyssum* (Mill.)Thell.: I-II (14); Th, E: H3T3R3
- f. *integrifolia* (Fr.)K. Maly: I-II (14)
- 365. *C. sativa* (L.)Cr. ssp. *sativa*: III-V (14,29,40); Th, Eua: H3T3R3
- ssp. *microcarpa* (Andrz.)E. Schmid (*C. microcarpa* Andrz.): IV-V (14,18); Th, Eua; H3T3R0
- 366. *Neslia paniculata* (L.)Desv.: III-V (14,40); Th, Eua: H2.5T3R4.5
- 367. *Capsella bursa-pastoris* (L.)Medik.: I-V; Th, Adv (M); H3T0R0
- 368. *Thlaspi alliaccum* L.: IV (14,25); Th, Atl-M; H2T4R0
- 369. *T. arvense* L.: III-V (29,5,25,18,!); Th, Eua (M); H2T3R4
- 370. *T. perfoliatum* L.: III-V (15,29,5,40,18); Th, Eua; H2.5T3.5R4.5
- 371. *Cardaria draba* (L.)Desv (*Iepidium draba* L.): III-V (5,25,18,!); H, Eua; H2T4R4
- 372. *Lepidium campestre* (L.)R.Br.: III-V (14,25,40); Th, E (M); H2.5T3R0
- 373. *L. cartilagineum* (L. May)Thell.: V (40); G,Pn: H3.5T4R4
- 374. *L. perfoliatum* L.: III (14,18); V (14,18); Th, Eua(C); H2T4R3
- 375. *L. ruderale* L.: IV-V (5,18); Th, Eua; H2T4R3
- 376. *Coronopus squamatus* (Forsk.)Aschers. (*C. procumbens* Gilib.): V (47,40); Th, M; H3.5T4R4
- 377. *Conringia orientalis* (L.)Andrez.: III-V (14,5,40); Th, Eua (M);H2T3.5R5
- 378. *Diplotaxis muralis* (L.)Dc.: III-V (5,14,25,47,40); TH(H), M; H2.5T3.5R4
- f. *caulescens* Kit.: V (40)
- 379. *D. viminea* (L.)DC.: IV (5,14); Th, M; H2.5T4R0
- 380. *Brassica nigra* (L.)Koch: III-V (14,29,5,40); Th,Eua (M);H3T4R0
- 381. *Sinapis alba* L.: III (14), IV (25); Th, Adv; H3T4R4
- 382. *S. arvensis* L.: III (14,29,!), V (14,18); Th, Cosm; H3T3R3
- var. *arvensis* f. *orientalis* (Jusl.)Godr.: V (37,14,18)
- var. *schukuhriana* (Rehb.)Hagenb.: III (14), V (25,40)
- 383. *Erucastrum gallicum* (Willd.)O.E.Schulz: III-IV (14,5); Th-TH,Atl-M: H2.5T3.5R4.5
- 384. *Rapistrum perenne* (L.)All.: I (14), III-V (14,4,18,40); TH-H (G),E (M); H2T3.6R4
- 385. *Calcipina irregularis* (Asso)Thell.: III-V (14,5)
- 386. *Raphanus raphanistrum* L.: III-V (15,29,5,40,!); Th, M; H2.5T3R0

#### RESEDACEAE

- 387. *Reseda lutea* L.: III-V (29,5,14,43,18); Th-H,Eua (M); H2T3.5R4.5

388. *R. lutcola* L.: IV (14,5,43,26,40); TH, Eua (M); H2T3R0

#### CISTACEAE

389. *Helianthemum nummularium* (L.) Mill. ssp. *nummularium*: I (6), III (29), IV (5,14);  
Ch-H, Ec-M; H2T3R4

- ssp. *obscurum* (Pers.) Prod. (*H. hirsutum* (Thuill.) Merat): I-II(14,22), IV (43); Ch-H, Ec-M; H2.5T3R4

- f. *lanccolatum* Willk.: IV (43)

#### TAMARICACEAE

390. *Myricaria germanica* (L.) Desv.: I, III (14); nPh, Eua; H0T0R4.5

#### ELATINACEAE

391. *Elatine alsinastrum* L.: V (14); Hh, Eua (M); H5T4R3

#### DROSERACEAE

392. *Drosera rotundifolia* L.: I (14,23,6,!); H, Cp; H5T2.5R1

#### VIOLACEAE

393. *Viola alba* Bess.: IV (5,14); H, Ec-M; H3T4.5R4

394. *V. arvensis* Murr.: III-V (14,5,25,18,47); Th, Eua; H3T3R0

395. *V. canina* L.: I-IV (15,29,14,22,6,5,!); H, Eua; H2.5T3R2

396. *V. elatior* Fries: V (40,18); H, Eua; H4T4R4.5

397. *V. epipsila* Ldb.: I (23,32,14,!); H, Eua (C); H5T0R1.5

398. *V. hirta* L.: III-V (29,5,25,40,!); H, Eua; H2T3R4

399. *V. luteola* (Schur) Gay: II (22); Th-H, Eua; H2.5T3R0

400. *V. montana* L.: I (23); H, Eua; H2T3R2

401. *V. odorata* L.: III-V (5,29,25,40,!); H, Atl-M; H2.5T3.5R4

- f. *simonkaiana* Gay: III (14)

402. *V. persicifolia* Schreb. (*V. stagnina* Kit.): I (32), IV-V (14,40); H, Eua; H4.5T3R3.5

403. *V. pumila* Chais: I (14), IV-V (5,14,40); H, Eua; H3T3R4

404. *V. reichenbachiana* Jord. (*V. silvestris* Lam.): IV V (25,24,40); H, Eua; H3T3R3.5

405. *V. tricolor* L. ssp. *tricolor*: I-V; Th-H, Eua; H2.5T3R0

- ssp. *subalpina* Gaud. (*V. bielziana* Schur): I (14)

- var. *perrobusta* Borb.: I (14)

#### HYPERICACEAE

406. *Hypericum hirsutum* L.: IV-V (25,24); H, Eua; H3T3R3

407. *H. maculatum* Cr.: I (6,32,!), IV (25); H, Eua; H4T3R2

408. *H. montanum* L.: I-II (30,14); H, E; H3T3R4

409. *H. perforatum* L.: I-V; H, Eua; H3T3R0

- var. *latifolium* Koch: IV (14)

- var. *angustifolium* DC.: I, III (14)

410. *H. tetrapterum* Fr. (*H. acutum* Mch.): IV-V (14,40); H, E; H4T3R4

#### CRASSULACEAE

411. *Sedum annuum* L.: I (22.!); Th-TH, Eua; H3T2R0  
412. *S. caespitosum* (Cav.)DC.: V (14,40); Th, M; H2T4R4  
413. *S. cepaea* L.: IV (25); Th-TH, M; H3T4R0  
414. *S. hispanicum* L.: II (22.!), IV (25); Th(Ch), M; H1T3.5R4  
415. *S. maximum* (L.)Hoffm.: II-IV (5,14,29,22,25,!); H (G),Eua (M);H2T3R0  
416. *S. reflexum* L.: I (14); Ch, E; H1.5T3R2.5  
417. *Sempervivum heuffelii* Schott: II (!); Ch. Carp-B; H1.5T2R0  
418. *S. marmoratum* Gris. (*S. schlehani* Schott) ssp. *blandum* (Schott)Hay: II (14,!); Ch,  
Carp-B; H1.5T2.5R2.5

#### SAXIFRAGACEAE

419. *Saxifraga tridactylites* L.: II (14); Th, E (M); H2T3.5R4  
420. *Chrysosplenium alternifolium* L.: I-V; H,Cp; H4T2R4

#### PARNASSIACEAE

421. *Parnassia palustris* L.: I (23,31,!); H, Cp; H4.5T2R1.5

#### GROSSULARIACEAE

422. *Ribes grossularia* L.: I-II (30,22,14,!); mPh, Eua; H0T3R0  
423. *R. heteromorphum* Topa: I (23,14); mPh, Eua; H4T2.5R3.5  
424. *R. nigrum* L.: I (23,30,!);H0T0R3  
425. *R. rubrum* L.: I (23); mPh, Eua; H4.5T0R3.5

#### THYMELAEACEAE

426. *Thymelaea passerina* (L.)Coss. et Germ.: IV V (14,25,40); Th,Eua(C);H1T4R3  
427. *Daphne mezereum* L.: I-III (30,22,29,!); nPh, Eua; H3.5T3R3

#### ROSACEAE

428. *Spiraea salicifolia* L.: T (23,32,14,!); mPh, Eua (C); H4.5T2.5R2  
429. *S. ulmifolia* Scop.: I-II (30,22,!); mPh, Eua; H3.5T2.5R0  
430. *Aruncus dioicus* (Walter)Fernald. (*A. vulgaris* Raf.): II (22.!);H, Eua; H4T2.5R3  
431. *Pyrus pyraeaster* (L.)Burgsd.: I-V; MPh-mPh, E; H2T3R4  
432. *Malus silvestris* (L.)Mill.: I (23), III-V (29,6,25,24,!); mPh, E;H3.5T3R4  
433. *Sorbus aucuparia* L.: I-II (22,23,!), IV (5,26,!); MPh-mPh, E; H3T2.5R2  
- var. *lanuginosa* (Kit.)Beck: I (14,23)  
434. *S. torminalis* (L.)Cr.: IV (5,14,!); MPh, E(M); H2.5T3R4  
435. *Crataegus* × *intermixta* (Wenzig)Beck (*laevigata* × *monogyna*): V (40)  
436. *C. laevigata* (Poir.)DC. (*C. oxyacantha* Auct. non L.): IV (14,25), V (24,27); mPh, Ec;  
H3T3R3  
437. *C. monogyna* Jacq.: II-V (22,6,25,24,!); mPh, E; H2.6T3R3  
- var. *kyrtostyla* (Fingerh.)Beck: V (40,14)  
438. *Rubus candicans* Whe.: II (14), IV (14,25); nPh, M; H2T2.5R0

- var. *menyhazensis* (Simk.)Nyár.: II (14)
- 439. *R. caesius* L.: I-V; H (nPh), Eua (M); H4.5T3R4
- var. *arvalis* Rchb.: IV (14,!)
- 440. *R. hirtus* W et K.: IV (25); nPh, E; H3T2.5R3
- 441. *R. idaeus* L.: I-IV (22.29,25,!); nPh, Cp; H3T3R3
- 442. *R. x longiramulus* Sabr. (*rivularis x serpens*): II (14)
- 443. *R. plicatus* Whc. et Nees: III(29); nPh, Atl-Ec; H3.5T3.5R2
- 444. *R. rivularis* P.J.Mull. et Wirtg.: II(14); nPh. Atl-Ec:H2.5T2.5R2
- var. *incultus* (Wirtg.)Focke: II (14)
- 445. *R. saxatilis* L.: I (30); nPh, Eua; H3T1.5R0
- 446. *R. x scythicus* (Sabr.)Gay (*rivularis x tereticaulis*): II (14)
- 447. *R. suberectus* G. Anders.: II (14); H (nPh), Ec; H4T2.5R3
- 448. *Fragaria vesca* L.: I-V; H, Eua; H3T2.5R0
- 449. *F. viridis* Duch.: I (14), IV (5,14,25); H, E (C); H2T4R3
- 450. *Potentilla anserina* L.: I-V; H, Cosm; H4T3R4
- 451. *P. argentea* L.: I-V; H, Eua; H2T4R2
- var. *dissecta* Walr.: I (14)
- 452. *P. chrysantha* Trev : IV V (14,24,27); H, Eua (C); H2T0R3
- 453. *P. crecta* (L.)Rauschel: I-IV (6,31,29,25,!); H, Eua(M); H0T0R0
- 454. *P. inclinata* Vill. (*P. canescens* Bess.): I (14); H, Eua (C); H3T0R4
- var. *laciniosa* Beck: I (14)
- 455. *P. palustris* (L.)Scop. (*Comarum palustre* L.): I (23,31,14,!); Hh(Ch),Cp; H5T2R3
- 456. *P. patula* W et K.: II (22); H, P-Pn; H2.5T3.5R3
- 457. *P. recta* L.: II-IV (22,29,5,!); H, Eua (C); H1.5T3.5R4
- 458. *P. reptans* L.: I-V; H, Cosm; H3.5T0R4
- 459. *P. x semiargentea* Borb. (*argentea x inclinata*): III (14)
- 460. *P. supina* L.: III-V (5,25,40,!); Th-H, M; H4T3R0
- 461. *P. thuringiaca* Bernh.: II-IV (14,22,25,!); H, Ec; H2T3R3
- var. *nestleriana* (Tratt.)Schinz et Kell.: III-IV (14,25,!)
- var. *elongata* (Goldb.)Th. Wolf. II (14)
- 462. *Geum aleppicum* Jacq.: II (22,14,!); H, Cp; H3.5T2.5R4.5
- 463. *G. rivale* L.: I-II (6,23,14,!); H, Cp; H4.5T0R4.5
- 464. *G. urbanum* L.: II-V (22,29,5,24,25,!); H, Eua (M); H3T3R4
- 465. *Waldsteinia ternata* (Stephan)Fritsch: I (14); Ch, Eua; H4T2.5R4
- 466. *Filipendula ulmaria* (L.)Maxim: I-IV (30,12,22,31,29,!); H, Eua:H4.5T2R0
- ssp. *denudata* (J. et C Presl.)Hayek: I (14)
- 467. *F. vulgaris* Mnch. (*E hexapetala* Gilib.): II-V (22,34,5,25,40,!); H, Eua; H2.5T3R0
- 468. *Alchemilla glabrescens* Wallr. (*A. hybrida* Auct. non Mill.): I (14);H.Ec; H2.5T2.5R2.5
- ssp. *plicata* (Buser)Palitz: I (14); H, E; H3T2.5R3
- 469. *A. vulgaris* L.: I-III (31,29,!); H, Ec; H3.5T2R2
- ssp. *acutangula* (Buser)Paalitz: II (22,14); H, E; H3T2R0
- ssp. *micans* (Buser)Palitz: I-II (14); H, E; H3T2R0
- 470. *Agrimonia eupatoria* L.: I-V; H, Eua; H2.5T3R4

- f. fallax (Fick.)Buia: I (14)
- 471. *Sanguisorba officinalis* L.: I (23,31,!), III-V (14,29,25,40);H,Eua; H3T3R0
- 472. *Rosa arvensis* Huds.: II-IV (14,29);mPh, Atl-M; H3T3R2.5
- 473. *R. canina* L.: II-V (22,5,14,29,40,!); nPh, E; H2T3R3
- var. *lutetiana* (Lem.)R.Kell. f. *muscolunata* (Desegl.)Borb.: IV (14)
- var. *transitoria* R. Kell. f. *marisensis* Simk.: IV (14)
- 474. *R. corymbifera* Borkh. (*R. dumetorum* Thuill.): III-V (14,24,!); nPh,E; H2.5T3R3
- var. *lembachensis* J.B.Kell. f. *ciliata* (Borb.)Borza: IV (14,25)
- var. *thuillieri* Chr. f. *solstitialis* (Bess.)Borb.: III-IV (14)
- 475. *R. dumalis* Bechst.: III-V (14,40,46,!); nPh, E; H2.5T3R4
- var. *villosiuscula* (Rip.)H.Br. f. *villosiuscula*: IV-V (14)
- 476. *R. gallica* L.: III-V (14,25,18,40); nPh, M; H2T4R4
- 477. *R. pendulina* L.: I-II (23,22,14,!); nPh, Ec; H3T2.5R3
- 478. *R. spinosissima* L.: IV V (14); nPh, Eua; H2T3R4
- 479. *Prunus avium* L. (*Cerasus avium* L.):IV (25,!); Mph-MPh, E; H3T3R3
- 480. *P. padus* L. (*Padus racemosa* (Lam.)C.KSchncid.): I (23,30), III (14,29), V (14); MPh, Eua; H3.5T3.5R4
- 481. *P. spinosa* L.: III-V (29,5,25,24,18,!); mPh, Eua; H2T3R3

#### FABACEAE (LEGUMINOSAE)

- 482. *Genista tinctoria* L. ssp. *tinctoria*: I-V; Ch-nPh, Eua; H2.5T3R2
- ssp. *ovata* (W et K.)Arc.: IV (5,14); Ch-nPh, Alp-Carp-B; H2.5T3R3
- var. *transilvanica* Lerch. f. *mayeri* (Jka.)Borza: IV (5)
- 483. *Cytisus banaticus* Gris. et Sch. (*C. albus* Hacq. var. *pallidus* Schrad.): V (14); Ch-nPh, B-Pn; H1.5T4R3
- 484. *C. hirsutus* L. ssp. *hirsutus* (*C. leucothricus* Schur): II-IV (22,29,14,!); nPh, Ec (M); H2T3.5R4
- 485. *C. nigricans* L.: II-IV (22,15,29,5,25,!); nPh, Ec; H2.5T3R0
- 486. *Ononis arvensis* L. (*O. bircina* Jacq.): I (6), II-V (14,29,34,5,25,!); Ch-H, Eua (C); H3T4R0
- 487. *O. pseudohircina* Schur: IV V (5,14,40,!); Ch-H, D-B-Cauc; H2.5T3R0
- 488. *Trigonella procumbens* (Bess.)Rchb.: III-IV (14,5), V (40); Th, P-M; H4T4R4.5
- 489. *Medicago falcata* L.: II-V (22,34,29,18,!); H,Eua (M); H2T3R5
- 490. *M. lupulina* L.: I-V; Th-TH, eua; H2.5T3R4
- 491. *M. sativa* L.: III-V (14,5,18,!); H, M; H2T3R5
- 492. *M. x varia* Martyn (*sativa x falcata*): IV-V (37,14,25,40)
- f. *pseudofalcata* (Rouy)Nyár.: IV (25)
- 493. *Melilotus albus* Desr.: III-V (34,5,25,40,!); Th-TH, Eua; H2.5T3R0
- 494. *M. dentatus* (W et K.)Pers.: IV V (14,40); TH (Th), Eua (C); H4T3.5R4
- 495. *M. officinalis* (L.)Pall.: I (32,!), III-V (34,5,25,18,!); TH-TH,Eua; H2.5T3.5R0
- 496. *Trifolium alpestre* L.: I-IV (6,22,14,5,25,!); H, E (M); H2.5T3R4
- 497. *T. angulatum* W et K.: III (34), V (14,27); Th, B-Cauc; H0T4R4.5
- 498. *T. arvense* L.: III-V (14,34,29,25,40,!); Th,Eua (M); H1.5T3R4
- 499. *T. aureum* Pollich (*T. strepens* Cr.): I (14,32), IV (14,25); Th-TH, Eua (M); H3T3R0

500. *T. campestre* Schreb.: I (31), II (!), III-V (29,6,40,18,1); Th-TH, E; H3T3R0  
 - f. *pseudoprocumbens* (Gmel.) A. Ny r : III, V (14)
501. *T. dubium* Sibth.: II-V (14,5,40,27,1); Th-TH, E(M); H3.5T2R0
502. *T. fragiferum* L.: III-V (15,29,%,18,!); H, Eua; H3T3R5
503. *T. hybridum* L.: I-V; H, E(M); H3.5T3R4  
 - var. *fistulosum* (Gilib.) Hegi: III (14)  
 - var. *elegans* (Savi) Boiss.: V (14)
504. *T. medium* L.: I-V; H, Eua; H3T3R0
505. *T. montanum* L.: I-III (6,22,29,!); H, Eua (C); H2.5T2R4
506. *T. ochroleccum* Huds.: I (6), III-IV (14,25,!); H, Ec-M; H2.5T2R4
507. *T. ornithopodioides* Sm.: V (14); Th, Atl-M; H4T4R2
508. *T. pallidum* W et K.: V (14,27,40); Th-TH, M; H2T4R4
509. *T. pannonicum* Jacq.: I-IV (6,14,22,5,!); H, P-M; H2T3R0
510. *T. pratense* L.: I-V; H-TH, Eua; H3T0R0
511. *T. repens* L.: I-V; H, Eua; H3.5T0R0
512. *T. retusum* Hojer (*T. parviflorum* Ehrh.): V (27,14); Th, P-M; H2T4R4.5
513. *T. spadicum* L.: I (14,32,23); Th, E; H4.5T3R2
514. *T. striatum* L.: IV-V (37,14,25); Th, Atl-M; H1.5T3R4
515. *Anthyllis vulneraria* L.: II-IV (22,29,5,33,25,!); H, E(M); H2T0R4  
 - ssp. *kernerii* (Sag.) Domin: II-IV (14)
516. *Lotus angustissimus* L.: V (14,40); Th, P-M; H2T4R4
517. *L. corniculatus* L.: I-V; H, Eua; H2.5T0R0
518. *L. tenuis* Kit.: III (14,34,!), V (14,!); H, Eua(M); H3.5T3R4
519. *Amorpha fruticosa* L.: III-V (4,46,25,!); mPh, Adv; H3T4R0
520. *Galega officinalis* L.: III-V (15,6,18,!); H, P-M; H4.5T3R4
521. *Astragalus cicer* L.: IV V (5,37,40,!); H, E(C); H2.5T4R4
522. *A. glycyphyllos* L.: II-V (22,5,25,24,40,!); H, Eua; H3T3R4
523. *Glycyrrhiza cchinata* L.: IV V (14,27,40,!); H, P-M; H4T4R0
524. *Coronilla varia* L.: II-V (22,29,6,26,18,!); H, Ec-M; H2T3R4
525. *Onobrychia viciifolia* Scop.: II-V (22,14,5,40,!); H, M; H2T4R4.5
526. *Vicia cracca* L.: I-V; H, Eua; H3T0R3
527. *V. dumetorum* L.: III (14), V(40); H, H3T3R4.5
528. *V. grandiflora* Scop.: III-IV (14,26); Th-TH, B-P-Cauc; H3T3R0  
 - var. *sordida* (W et K.) Gris.: III-IV (14,42,5)
529. *V. hirsuta* (L.) S.F. Gray: IV-V (5,14,25,40); Th, Eua (M); H2.5T3.5R4
530. *V. lathyroides* L.: IV-V (14,18,40); Th, Atl-M; H2T4R2.5
531. *V. pannonica* Cr.: III-V (29,5,40); Th, P-M; H2.5T3.5R4  
 - ssp. *striata* (M.B.) Nym. (*V. striata* M.B.): III (14), V(40)
532. *V. pisiformis* L.: V (14,40); H, Ec; H2T3R4.5
533. *V. sativa* L. ssp. *sativa*: IV-V (14,18,40); Th, Adv; H0T3R0  
 - ssp. *nigra* (L.) Ehrh. (*V. angustifolia* L.): II (22), III-V (14,6,40,47,!); Th, Eua (M); H0T3R0
534. *V. sepium* L.: I-V; H, Eua; H3T3R3
535. *V. tetrasperma* (L.) Schred.: IV V (5,26,40,!); Th, Eua; H3.5T3R3

536. *V. villosa* Roth: I (6,30,31), III-V (5,14,29,18); Th-TH, M; H2.5T3.5R2.5  
 537. *Lathyrus aphaca* L.: III-V (14,29,5,47,40); Th,M;H3T3R3  
 538. *L. hirsutus* L.: III-V (15,29,5,37,40); TH,Eua; H3T3.5R4  
 539. *L. latifolius* L.: III-V (14,29,5,25); H, M; H2T3.5R4  
 - var. *rotundifolius* (Willd.)Rehb.: V (14)  
 540. *L. paluster* L.: I (31), III, V (14,40); H, Cp; H5T0R4.5  
 541. *L. pannonicus* (Jacq.)Gaerke ssp. *asphodeloides* (Gouan)Bassler (*L. versicolor* Auct. non Beck): III-IV (14,6,4,42); H-G, Eua (C); H2T4R4.5  
 542. *L. pratensis* L.: I-V; H, Eua; H3.5T3R4  
 543. *L. silvestris* L.: II-V (14,40,!); H, E (M); H2.5T3R4  
 - var. *oblongus* Ser.: II-III (14)  
 - var. *platyphyllus* (Retz)Aschers.: V (40,14,43)  
 544. *L. tuberosus* L.: III-V (29,5,25,18,!); H (G), Eua (M); H2T4R4  
 545. *Pisum sativum* L. ssp. *arvense* (L.)Ccl. (*P. arvense* L.): II-III (14); Th, E; H3T3R4

#### LYTHRACEAE

546. *Peplis portula* L.: I (14); Th, Atl-M; H4T3R0  
 547. *Lythrum hyssopifolia* L.: III-V (14,40); Th,Cosm; H4T3R0  
 548. *L. salicaria* L.: I-V; H-Hh, Cosm; H4T3R0  
 - f. *glabrescens* (Neilr)Todor: III (14)  
 549. *L. virgatum* L.: III-V (14,34,43,18,!); H-Hh, Eua (C); H4.5T3.5R4

#### ONAGRACEAE (OENOTHERACEAE)

550. *Epilobium adenocaulon* Hausskn.: II,IV (14); H, Adv; H4T3R3  
 551. *E. angustifolium* L. (*Chamaenerion angustifolium* (L.)Scop.): I-IV (30,22,29,5,!); H, Cp; H4T1.5R0  
 552. *E. hirsutum* L.: I (31,!), III-V (34,29,25,40,!); H (Hh), Eua (M); H4T3R3  
 553. *E. montanum* L.: II (22,!), IV (25,!), V (27,40); H, Eua (m); H3T0R3.5  
 554. *E. palustre* L.: I-II (23,12,!), IV (5); H, Cp; H5T0R2  
 555. *E. parviflorum* (Schreb.)Wither: III-IV (29,5,25,!); H, Eua; H5T3R4.5  
 556. *E. tetragonum* L. (*E. adnatum* Gris.) ssp. *tetragonum*: IV-V (14,25,40); H, Eua; H4.5T3R0  
 - ssp. *lamyi* (F.Schultz)Nym. (*E. lamyi* F. Schultz): IV-V (14,25,40); H, E; H0T3.5R0  
 557. *E. x wiessenburgense* E. Schultz (*adnatum* x *parviflorum*): V (40)  
 558. *Oenothera biennis* L.: III-V (14,5,25,18,!); Th, Adv; H2T4R0  
 559. *Circaea lutetiana* L.: II-V (29,24,40,!); G, Eua; H3.5T3R4

#### TRAPACEAE

560. *Trapa natans* L.: IV V (14,25,!); Hh, Eua (M); H6T4R4  
 - var. *laevigata* (Nath.)Gluck: V (40)  
 - var. *conocarpa* Aresch: V (38)

#### HALORAGACEAE

561. *Myrophillum spicatum* L.: III (14,38,29), V (38,40); Hh, Cp; H4T0R4.5

562. *M. verticillatum* L.: III (14,38,!), IV (5), V (38,40,!); Hh, Cp; H6T3.5R3.5  
- f. *pinnatifidum* (Wallr.)Topa: V (40)

#### MALVACEAE

563. *Hibiscus trionum* L.: III-V (14,5,18,!); TH.Eua; H2.5T4R4  
564. *Abutilon theophrasti* Medik.: III (42,14), V (14,40,!); Th. Eua; H3T3R3  
565. *Althaea officinalis* L.: III-V (25,18,!); H, Eua (C); H3T4R4  
566. *Lavatera thuringiaca* L.: III-V (29,5,25,40,!); H, Eua (C); H2.5T3R0  
567. *Malva neglecta* Wallr.: II-V (29,5,18,40,!); Th-TH. Eua (M); H3T3R3  
568. *M. pusilla* Sm.: III-V (9,5,18,!); Th-H, Eua (m); H3.5T3R3  
- f. *glabrescens* Morariu: III (14)  
569. *M. silvestris* L.: III-V (5,29,25,18,!); Th-H. Eua (Cosm); H3T3R0  
- var. *hispidula* Beck: III (14)

#### TILIACEAE

570. *Tilia cordata* Mill.: I-IV (23,22,29,5,25,!); MPh, E; H3T3R3  
571. *T. platyphyllos* Scop.: IV V (5,25,24,!); MPh. Ec; H2.5T3R4  
572. *T. tomentosa* Mnch.: IV (14,25,!); MPh, B; H2.5T3.5R3

#### LINACEAE

573. *Linum catharticum* L.: I-IV (6,31,12,33,5,25,!); Th (TH). E(M);H3T2R4  
574. *L. flavum* L.: III-IV (29,5); H, P-Pn-B; H2T4R4  
- var. *angustifolium* J.v.: I (14)  
575. *L. perenne* L.: IV (5,14); H. Eua (C); H0T3.5R4

#### OXALIDACEAE

576. *Oxalis acetosella* L.: II (22,!); H-G, Cp; H4T3R3  
577. *O. europaea* Jord. (*O. stricta* Auct. non L.): II-III, V (14,!);Th-H, Adv; H3.5T0R0

#### GERANIACEAE

578. *Geranium columbinum* L. : IV (5,25); Th, Eua; H2T3.5R4  
579. *G. divaricatum* Ehrh.: I, IV (14); Th. Eua (M); H2.5T3R4  
580. *G. palustre* Torn.: I (23,30,!), III (29,14); H. Eua (C); H4T3R4.5  
581. *G. phacum* L.: II-IV (22,15,5,!); H, Ec; H4T3R3  
582. *G. pratense* L.: I-V; H. Eua; H3.5T3R5  
583. *G. pusillum* Burm.: IV-V (5,18,!); Th. E (M); H2.5T3R0  
584. *G. robertianum* L.: II (!), IV-V (5,25,40,!); Th, Cosm; H3.5T3R3  
585. *G. rotundifolium* L.: IV (14,5,!); Th. Eua (M); H2T3.5R4  
- var. *trichospermum* Sanio et Bob.: IV (14,25)  
586. *Erodium cicutarium* (L.)L'Hérit: IV-V (5,18,!); Th, Cosm; H2.5T0R0

#### BALSAMINACEAE

587. *Impatiens glandulifera* Royle (*I. roylei* Walp.): I, IV (14); Th, Adv; H4T4R4  
588. *I. noli-tangere* L.: II-IV (29,25,!); Th, Eua; H4T3R4



#### ZYGOPHYLLACEAE

589. *Tribulus terrestris* L.: IV V (14,5); Th. Cosm: H0T4R4  
- var. *orientalis* (Kern.)Beck: V (14,40)

#### POLYGALACEAE

590. *Polygala amara* L.: I (14); H (Ch), E; H0T2R4.5  
591. *P. comosa* Schkuhr.: I (6.32), II (34); H (Ch), Eua; H2T4R4  
592. *P. vulgaris* L.: I (14,6.!), III-V (29,5.!); H (Ch), Eua; H3T3R3  
- f. *rosulata* (Fries)Hegi: I (14)  
- f. *major* (Koch)Hegi: I (14)

#### ACERACEAE

593. *Acer campestre* L.: III-V (15,29,6,25,24,!); MPh-mPh, E; H2.5T3R3  
594. *A. platanoides* L.: II-III (14,22,29); MPh, Eua; H3T3R3  
595. *A. tataricum* L.: III-V (14,5,40,25,!); mPh-MPh, E (C); H2.5T3.5R4

#### CELASTRACEAE

596. *Evonymus europaeus* L.: I (30,23), III-V (5,27,18,!); mPh, E; H3T3R3  
- f. *angustifolia* (Schultz)Borza: V (14)  
597. *E. nana* M.B.: I (23,14); mPh, Eua (C); H0T3R3.5  
598. *E. verrucosus* Scop.: II-IV (22,9,5,!); mPh, E; H2.5T3R4

#### STAPHYLEACEAE

599. *Staphylea pinnata* L.: III-V (14,5,25,24,!); mPh, E(M); H2.5T3.5R4

#### RHAMNACEAE

600. *Frangula alnus* Mill. : I (23,31,!), IV V (25,24,40); mPh, Eua; H4T3R3  
601. *Rhamnus catharticus* L.: IV V (5,27,40); mPh.Eua; H2T3R4

#### VITACEAE

602. *Vitis silvestris* Gmel.: V (14,24,40,!); mPh-Ep, P-M; H3.5T4.5R4.5

#### CORNACEAE

603. *Cornus mas* L.: IV V (25,24,27,!); mPh, P-M; H2T3.5R4  
604. *C. sanguinea* L.: III-V (29,5,24,40,!); mPh, Ec; H3T3R4

#### ARALIACEAE

605. *Hedera helix* L.: III-IV (29,5,!); mPh-Ep, Atl-M; H3T3R3

#### APIACEAE (UMBELLIFERAE)

606. *Sanicula europaea* L.: II (22,!); H, Atl-M; H3.5T3R4  
607. *Eryngium campestre* L.: III-IV (29,5,25,!); H.P; H1T5R4  
608. *E. planum* L.: III-V (14,5,40,!); H, Eua (C); H2T3R4  
- f. *subglobulosum* (Uechter.)Schube: IV (43)

609. *Chaerophyllum aromaticum* L.: I-II (14,22,!); H, Ec (C); H3.5T3R3  
 - var. *longipilum* Thell.: II (14)  
 - f. *cinerascens* Borb.: I (14)  
 - var. *brevipilum* Murbeck f. *tomentellum* Todor: I (14)
610. *C. bulbosum* L.: III-IV (29,5,!); TH-H, E (C); H4T3.5R4.5  
 - f. *tenuissimum* (Vel.)Jav : III (14)
611. *C. hirsutum* L. (*C. cicutaria* Vill.): I-III (31,14,29,!); H, Ec; H4.5T2R0
612. *C. temulum* L.: III-V (29,14,25,24); Th-TH, E: H3T3R4
613. *Anthriscus caucalis* M.B. (*A. scandicina* (Web.)Mansf ): IV-V (5,15,40); Th, P-M; H2T4R0
614. *A. cerefolium* (L.)Hoffm. ssp. *trichosperma* (Spreng.)Arc. (*A. trichosperma* Spreng.): IV-V (5,18,!); Th,M; H2.5T4R4
615. *A. silvestris* (L.)Hoffm.: II-V (22,29,14,5,24,!); H, Eua (M); H3T3R4  
 - f. *glabrescens* (Schur)Todor: III-IV (14)
616. *Turgenia latifolia* (L.)Hoffm. (*Caucalis latifolia* L.): IV V(14,40); Th, Eua (M); H2.5T4R0
617. *Caucalis platycarpus* L. (*C. lappula* (Web.)Grande): III-V (29,6,40); Th, Ec-M; H2T4R5  
 - var. *muricata* (Bisch.)Gren. et Godr.: IV-V (14,25,5,18)
618. *Torilis arvensis* (Huds.)Link: IV-V (14,40); Th, Ec-M; H2.5T3.5R4  
 - var. *aglochis* (Simk.)Jav : V (14)
619. *T. japonica* (Houtt.)DC. (*T. rubella* Mch.): III-V (29,5,40); Th-TH,Eua; H3T3.5R4.5
620. *Daucus carota* L.: I-V; TH-H, Eua (M); H2.5T3R0
621. *Bifora radians* M.B.: III-IV (14,29,!); Th, M; H3T4R0
622. *Conium maculatum* L.: III-V (29,5,25,18,!); Th-TH, M; H3T3R3
623. *Pleurospermum austriacum* (L.)Hoffm.: I (14); H, Ec: H3T2R4
624. *Bupleurum falcatum* L.: I-IV (14,22,5,!); H, Eua; H2T3.5R4
625. *B. tenuissimum* L.: IV V (14,27,18); Th, AtI-M; H0T3.5R4.5
626. *Cicuta virosa* L.: I-V; Hh,Eua; H5T0R3
627. *Trinia ramosissima* (Fisch et Trev )Koch (*T. kitaibelli* M.B.): IV V (5,27,40); H, B-P; H2.5T3.5R4
628. *Carum carvi* L.: I-V; TH, Eua; H3.5T3R3
629. *Aegopodium podagraria* L.: I-V; H (G), Eua; H3.5T3R3
630. *Pimpinella major* (L.)Huds.: I (14,!); H, E; H3.5T0R4  
 - var. *rubra* (Hoppe et Schleich.)Fiori et Paol.: I (14)
631. *P. saxifraga* L.: I-V; H, Eua; H2.5T0R3  
 - var. *ovata* Spreng. f. *pubescens* (Mert. et Koch)Ny r : III, V(14)
632. *Berula erecta* (Huds.)Caville (*Sium erectum* Huds.): III (!); Hh, Cp; H6T3.5R0
633. *Sium latifolium* L.: III-V (14,40,!); Hh, Eua; H6T0R4
634. *S. sisaroidcum* DC. (*S. lancifolium* M.B.): IV-V (14,43,25,40);Hh, Eua (C) H5T3R4
635. *Seseli annuum* L.: I (34), IV (5); Th (th,H), E (C); H2T3R3
636. *S. libanotis* (L.)Koch (*Libanotis montana* Cr.): II-IV (14,22,5,!); H, Eua (C); H3T0R4  
 - var. *sibirica* (L.)Patze, Mey et Eik.: II (14)
637. *Oenanthe aquatica* (L.)Poir.: I-V; Hh,Eua; H6T3R0

638. *O. banatica* Heuff.: I (14), III-V (14,25,27,!); H, D-B-Pn; H4T3.5R0  
 639. *O. fistulosa* L.: III-IV (14,29); Hh, E; H5T4R4  
 640. *O. silaifolia* M.B.: I (6,31); IV-V (14,6,40); H, M; H5T3.5R0  
 641. *Acthusa cynapium* L.: III-V (14,29,5,40,!); Th-TH, E; H3.5T3R0  
 - ssp. *cynapioides* (M.B.)Nym.: III (14)  
 - ssp. *agrestis* (Wallr.)Dost.: V (14,40)  
 642. *Cnidium dubium* (Schkuhr)Thell.: I (23,32,14,!); TH (H), Eua; H4.5T4R3.5  
 643. *Selinum carvifolia* L.: I (6,23,14,!), IV (14,25); H, Eua; H3.5T3R3  
 644. *Angelica palustris* (Bess.)Hoffm.: I (14); H, Eua (C); H5T2.5R0  
 646. *A. silvestris* L.: I-V; H, Eua; H4T3R3  
 - var. *vulgaris* Fisch f. *stipulazis* (Schur)Thell.: III (14)  
 646. *Peucedanum alsaticum* L.: IV-V (14,6,40); H, Ec; H2T3.5R4  
 - f. *angustifolium* Erdn.: V (14)  
 647. *P. carvifolia* Vill. (*P. chabraei* (Jacq.)Rchb.): IV (14,25,!); H, Ec; H3T3R4  
 648. *P. officinale* L.: III (29), V (14,27); H,E; H2T3R3  
 649. *P. orcoselinum* (L.)Munch.: II-IV (22,29,5,!); H, Ec-M; H2.5T3R0  
 650. *P. palustre* (L.)Munch.: I (14,23); H, Eua; H5T3R0  
 651. *Pastinaca sativa* L.: II-V (34,29,5,!); TH-H, Eua; H3T4R4  
 652. *Heraclum sphondylium* L.: II-IV (22,14,5,25,!); H, Eua; H3T2.5R0  
 - ssp. *sphondylium* var. *branca-ursina* (Cr.)Thell.: III-IV (14,25)  
 653. *Laserpitium latifolium* L.: I-II (14,22,!), IV (5); H, E; H0T0R4  
 - var. *asperum* (Cr.)Soy-Will.: I (14)  
 654. *L. ruthenicum* L.: I (14,23); H, Ec; H4T3.5R4  
 - var. *hirtum* Wallr.: I (14)

#### PLUMBAGINACEAE

655. *Limonium gmelini* (Willd.)O. Ktze. (*Statice gmelini* Willd.): III-V (14,29,34,18,!); H, Eua (C); H3.5T4R4

#### PRIMULACEAE

656. *Lysimachia nummularia* L.: I-V; Ch,E; H4T3R0  
 657. *L. punctata* L.: III-V (29,25,40); H, P-M; H3.5T3.5R3  
 658. *L. thyrsoflora* L.: I-II (14,23,31); Hh, Cp; H5T0R0  
 659. *L. vulgaris* L.: I-V; H-Hh, Eua; H5T0R0  
 660. *Angallis arvensis* L.: III-V (5,18,25,!); Th.Cosm; H3T3R0  
 661. *A. foemina* Mill. (*A. coerulea* Schreb.): IV V (5,18,40,!); Th, Cosm; H3T3.5R0  
 662. *Centunculus minimus* L.: IV (14,5); Th, Eua; H4T3.5R3  
 663. *Samolus valerandi* L.: III (14); H, Eua; H4.5T3.5R0  
 664. *Soldanella montana* Willd.: II (14); H, Ec; H3.5T2R1.5  
 665. *Androsace elongata* L.: V (14,40); Th, Eua; H2T3.5R4  
 666. *Hottonia palustris* L.: II-III (14,38); Hh, E; H6T3.5R3  
 667. *Primula acaulis* (L.)Gruib.: IV (14,25); H, Atl-M; H3T3R3  
 668. *P. veris* L. (*P. officinalis* (L.)Hill.): II-IV (22,29,25,!); H, Eua; H3T2R5

#### PYROLACEAE

669. *Pyrola rotundifolia* L.: I (14,23,6), IV (14); H, Cp: H3T0R2.5  
670. *Monotropa hypopitys* L.: III (14,29) V (14,40); G, Cp: H3T2R0

#### ERICACEAE

671. *Vaccinium myrtillus* L.: I (!); nPh (Ch), Cp: H0T2R1  
672. *V. vitis-idaea* L.: I (6,!); Ch (nPh), Cp: H3T2R1

#### CONVOLVULACEAE

673. *Calystegia sepium* (L.)R.Br : II-V (12,29,5,25,18,!); H, Eua; H4T3R4  
674. *Convolvulus arvensis* L.: II-V (29,5,18,!); H-G,Cosm: H0T0R0

#### CUSCUTACEAE

675. *Cuscuta campestris* Yuncker ssp. *pentagona* (Engelm.) (C. *pentagona* Engelm.): IV-V (14,40); Th,Adv ; H3T3R0  
676. *C. epithymum* (L.) Murr : I-II (14), IV-V (5,40,!); Th, Eua; H0T3R0  
677. *C. europaea* L.: IV V (14,5,40); Th,Eua: H4T0R0  
- var. *nefrens* Fries: IV (14)  
678. *C. epilinum* Weihe: III-IV (14); Th, Eua; H0T4R0  
679. *C. lupuliformis* Krock: IV V (14,43,40,!); Th,Eua (C);H0T3R0  
680. *C. trifolii* Babigt.: II-V (14,40,!); Th, Eua : H0T3R0  
- var. *angustissima* (Engelm.)Buia f. *longisquama* Buia: II-III (14)  
- var. *muresensis* Buia: III (14)

#### POLEMONIACEAE

681. *Polemonium caeruleum* L.: I-II (14,23,32); H, Cp: H4T2.5R4.5

#### HELIOTROPIACEAE

682. *Heliotropium europaeum* L.: III-V (14,5,47,40); Th, Ec-M; H2T4R0  
683. *H. supinum* L.: V (40); Th, M; H0T4R4.5

#### BORAGINACEAE

684. *Cerinthe minor* L.: III-V (29,5,33,46,18); TH, P-M; H3T3R0  
685. *Lithospermum arvense* L.: III-V (15,5,18); Th-TH, Eua; H0T0R4  
- var. *caerulescena* DC.: III (14)  
686. *L. officinale* L.: IV V (5,18); H, Eua; H2T3.5R4  
687. *L. purpureo-caeruleum* L.: IV (5,25,!); H-G, Ec (M); H2.5T4R4.5  
688. *Onosma arenarium* W et K: IV V (14,40); H, E (C); H1.5T3.5R4  
689. *Echium vulgare* L.: II-V (22,29,5,18,!); Th, Eua; H2T3R4  
690. *Myosotis arvensis* (L.)Hill.: III-V (29,5,18,40); TH,Eua: H3T3R4  
691. *M. caespitosa* K.F.Schultz: V (40); Th-TH (H), Cp: H4.5T0R0  
692. *M. alpestris* F.W. Schmidt ssp. *stenophylla* (Knaf.)Grint. et Ny r. ( *M. stenophylla* Knaf.): II (14); H, Ec; H1.5T1.5R3

693. *M. scorpioides* L. (*M. palustris* (L.)Nathh.): I-V; H,Hh, Eua; H5T3R0  
 - var. *memor* Kitt.: I (14), V (14,25)  
 694. *M. silvatica* (Ehrh.)Hoffm.: II-IV (22,29,5,25); H, Eua; H3.5T3R3  
 695. *M. sparsiflora* Mikan: V (18,40); Th, Eua (C); H3.5T3R4  
 696. *Pulmonaria mollis* Wulfen (*P. montana* Lej.): IV (25); H, Eua; H2.5T3R4  
 - ssp. *mollissima* (Kern.)Nym.: IV (25), V (40)  
 697. *P. officinalis* L.: III-V (14,29,6,40,!); H, E; H3.5T3R3  
 698. *P. rubra* Schott: I-II (14,22,!); H, Carp-B; H3.5T2R3  
 699. *Symphytum cordatum* W et K.: II (14,22,!); H-G, Carp-B; H3.5T2R3  
 700. *S. officinale* L.: I-V; H, Eua; H4T3R0  
 - ssp. *uliginosum* (Kern.)Nym.: IV (14)  
 701. *S. tuberosum* L.: IV (5,25); H-G, Ec;H3T3R3  
 702. *Anchusa officinalis* L.: II-V (22,29,5,25,18,!); TH-H, E(M); H2T3.5R0  
 - var. *arvalis* Dum.: II, V(14)  
 703. *Cynoglossum officinale* L.: IV V (5,18,40); TH, Eua (C); H2T3R4

#### SOLANACEAE

704. *Atropa belladonna* L.: II (22); H, Atl-M; H3T3R3  
 705. *Scopolia carniolica* Jacq.: II (14,22); G,E; H4T3R5  
 706. *Hyoscyamus niger* L.: III-V (29,5,18,14,!); TH-H, Eua(M); H3T3.5R4  
 - f. *pallidus* (W et K.)Rchb.: IV (14)  
 707. *Physalis alkekengi* L.: III-V (29,5,40,!); H, Ec-M; H3T3R4  
 708. *Solanum alatum* Mnch.: IV V (14,40); Th, Eua (M); H3T4R3  
 709. *S. dulcamara* L.: I-V ; Ch (nPh), Eua (M); H4.5T3R4  
 710. *S. luteum* Mill.: IV (14); Th, Eua (M); H3T3.5R4  
 711. *S. nigrum* L.: III-V(29,5,25,18,!); Th, Cosm; H3T4R0  
 712. *Datura stramonium* L.: III-V (15,29,6,25,18,!); Th, Cosm; H3T4R4

#### SCROPHULARIACEAE

713. *Verbascum blattaria* L.: III-V (34,29,5,25,18,!); H, Eua (M); H2.5T3.5R4  
 714. *V. densiflorum* Bertnl. (*V. thapsiforme* Schrad.): IV V (14,5); TH, E (M);  
 H2.5T3.5R4.5  
 715. *V. lychnitis* L.: II-V (22,29,40,18,!); Th, E; H1T3R5  
 - ssp. *kanitzianum* (Simk. et Walz.)Soe: II (14)  
 716. *V. nigrum* L.: III-V (29,25,27,40,!); TH-H, Eua; H2T3R4  
 717. *V. phlomoides* L.: III-V (6,25,18,!); TH, E; H2.5T3.5R4  
 - f. *australe* (Schrad.)Ghisa: III-V (14)  
 718. *V. phoeniceum* L.: III-V (4,29,5,25,18,!); H, Eua (C); H2T4R4  
 719. *V. x schottianum* Schrad. (*chaixii* ssp. *austriacum* x *speciosum*): I (14)  
 720. *Linaria angustissima* (Lois.)Borb.: IV-V (14,5,40); H,M; H1T3.5R5  
 721. *L. genistifolia* (L.)Mill. ssp. *genistifolia*: III-V (14,6,25,40,!); H, Eua (C); H1T3.5R5  
 - var. *procera* Sims.: IV-V (14,40)  
 - var. *angustata* Wierzb.: V (40)  
 722. *L. x kocianovichii* Aschers. (*genistifolia* x *vulgaris*): IV V (14,25,40)

723. *L. vulgaris* Mill.: II-V (22,34,29,5,18,!); H (TH), Eua; H2T3R4  
 - var. *glabra* Peterm.: IV V (5,40)
724. *Kickxia elatine* (L.)Dumort: III (42), V(40); Th, Ec (M); H2.5T3.5R4
725. *Scrophularia laciniata* W et K. ssp. *lasiocaulis* (Schur)Borza: IV (14); H, Carp-B;  
 H2T3.5R0
726. *S. nodosa* L.: I (30), III-V (29,5,24,!); H, Eua; H3.5T3R0
727. *S. scopolii* Hoppe: I (30,!); IV V (25,40,!); H, P-m; H4T3R0
728. *Gratiola officinalis* L.: IV V (25,18,40,!); H, Eua; H4.5T3R4
729. *Limosella aquatica* L.: V (14,40); Th, Cosm; H4.5T3R0
730. *Lindernia procumbens* (Krocker)Philcox (L. *pyxidaria* All.): V (14,40); Th, Eua (m);  
 H4.5T4R0
731. *Veronica acinifolia* L.: IV V (14,40); Th,M; H4T3.5R0
732. *V. anagallis-aquatica* L.: I (31,!), III-V (5,40,18,!); H-Hh, Cp; H5TOR4  
 - f. *limosa* Krosche: V (14)  
 - f. *maxima* (Schur)J. Kell.: III(14)  
 - f. *tenerrima* (Schm.)Vhal.: V (14)
733. *V. anagalloides* Guss.: IV-V (14,40,47); H-Hh, Eua; H4.5T0R4
734. *V. agrestis* L.: III-IV (29,5); Th, E: H3.5T2.5R4
735. *V. arvensis* L.: III-V (15,29,5,18,47); Th, Eua; H2.5T3R3
736. *V. beccabunga* L.: II-V (29,14,40,!); Hh-H, Eua; H5T3R4  
 - var. *limosa* (Lej.)Math.: IV-V (14,40);
737. *V. catenata* Pennel (*V. aquatica* Bernh.): III (14); H-Hh, Cp; H5T3R4.5
738. *V. chamaedrys* L.: I-V; H-Ch, Eua; H3T0R0
739. *V. hederifolia* L.: IV-V (5,40,47,!); Th, Eua; H2.5T3R4
740. *V. longifolia* L.: I (14,23,!), V(18,40,!); H, Eua; H4T3R4  
 - f. *media* (Schrad.)Koch: I,III (14)  
 - f. *salicifolia* (Wallr.)Hay : V (14)
741. *V. officinalis* L.: II-IV (22,29,6,25,!); Ch, Eua; H2T2R2
742. *V. opaca* Fries.: IV-V (5,40); Th, E; H2.5T3R4.5
743. *V. paniculata* L. (*V. spuria* L.): IV-V (43,18); H, Eua; H0T3R4
744. *V. persica* Poir.: IV-V (5,40,!); Th, Adv; H3T0R4
745. *V. polita* Fries (*V. didyma* Auct.): IV-V (47,40); Th, Eua (M); H2.5T3.5R4.5
746. *V. praecox* All.: IV-V (14,5,25,40); Th, EC-M; H1.5T3.5R3
747. *V. prostrata* L.: III (33), V (18,40,!); Ch, Eua; H2T4R3
748. *V. scutellata* L.: I (14,31,!), III (14), IV (14,5); H-Hh, Cp; H4T3R4
749. *V. serpyllifolia* L.: I-V; H, Cosm; H3T3R0
750. *V. spicata*: III (34,29); H-Ch, Eua; H1T4R4  
 - var. *lancifolia* Koch: V (40)  
 - ssp. *orchidea* (Cr.)Celak.: II-V (34,33,40,!); H, P-M; H1.5T5R4  
 - f. *pseudocrassifolia* Borb.: IV (14,25)
751. *V. triphyllos* L.: IV V (25,50); Th, E; H2T3.5R2
752. *Digitalis grandiflora* Mill.: II-IV (22,29,25,!); H, E: H3T3R3
753. *Odontites scrotina* (Lam.)Rchb.: I-V; Th, Eua; H3T3R0
754. *Euphrasia rostkoviana* Haync: I (14,!), III (29,!); Th, Ec; H3T3R3

- var. *montana* (Jord.) Wettst.: I (14,42)
- 755. *E. stricta* Host.: I (6,23,!), IV (25); Th, Ec; H3T3R0
- 756. *Pedicularis palustris* L.: I (23,!), IV (14,5); H, Eua; H5T0R0
- 757. *P. sceptrum-carolinum* L.: I (23,31,!); H, Eua; H4.5T2.5R4.5
- 758. *Rhinanthus angustifolius* Gmel. (*R. glaber* Lam.): I-II (22,!); Th, Eua; H0T0R0
- var. *bosnensis* Behr. et Stern: I (14)
- 759. *R. minor* L.: I-IV (14,40); Th, D-B-Anat; H3T4R0
- 760. *R. rumelicus* Velen.: IV-V (14,40); Th, D-B-Anat; H3T4R0
- var. *simonkaianus* (Soó) Nyár.: IV-V (14,40)
- 761. *Melampyrum barbatum* W. et K.: III-V (14,29,40); Th, Pn-D; H2.5T3.5R4
- var. *filarszkyanum* (Soó) Pauca et Nyár.: V (14)
- 762. *M. bihariense* Kern.: I (32), III-IV (29,14); Th, D-B; H2.5T3R3
- var. *kummerlei* (Dahl.) Nyár.: I (14)
- 763. *M. cristatum* L.: I (6,30,!), III-V (29,14,5,25,!); Th, Eua; H2T3R4.5
- var. *ronnigeri* (Poev.) Beauv.: I, IV-V (14,40)

#### LENTIBULARIACEAE

- 764. *Pinguicula vulgaris* L.: I (6,23); H, Cp; H3T0R4
- 765. *Utricularia australis* R.Br. (*U. neglecta* Lehm.): II,III (14); Hh,Atl-M; H6T3.5R3
- 766. *U. vulgaris* L.: I (31,14), II (14), III (14,!), IV (5,38), V (14,40,!); Hh, Cp; H6T0R3.5

#### OROBANCHACEAE

- 767. *Orobanche lutea* Baumg.: II-IV (14,5); G, Eua (M); H2T3R4
- var. *buekiana* Koch: IV (14,25)
- f. *collecta* Beck: IV (14,25)
- 768. *O. picridis* F.W. Schultz: II,IV (14); G, Ec-M; H2T3R0
- 769. *O. ramosa* L.: IV-V (5,40,!); Th (G), Ec-M; H3T4R0
- 770. *O. vulgaris* Poir. (*O. caryophyllacea* Sm.): II-V (14,40,!); G, Ec-M; H4T4R0
- var. *incurvata* Beck f. *brevispicata* Beck: IV (25)

#### VERBENACEAE

- 771. *Verbena officinalis* L.: III-V (29,5,18,!); Th-H, Cosm; H3T3R4
- 772. *V. supina* L.: V (40,!); Th, P-M; H4T4R0

#### LAMIACEAE (LABIATAE)

- 773. *Ajuga genevensis* L.: I-IV (32,22,29,5,25,!); H, Eua (C); H2.5T3R4
- 774. *A. reptans* L.: I (30,23,!), III-V (29,25,40,!); H-Ch, E; H3.5T0R0
- 775. *Teucrium chamaedrys* L.: II-IV (22,29,5,25,!); Ch, Ec-M; H2T3.5R4
- 776. *Scutellaria galericulata* L.: I (23,31,!), III-V (14,5,25,40,!); H, Cp; H4T3R4
- 777. *S. hastifolia* L.: III-V (29,14,5,18,!); H, Ec; H5T3R3
- 778. *Marrubium peregrinum* L.: IV-V (14,5,40); H, Eua (M); H2T4R0
- 779. *M. x remotum* Kit. (*peregrinum* x *vulgare*): IV-V (14,5,40)
- 780. *M. vulgare* L.: III-V (14,5,25,18,!); H (Ch), Eua (M); H1.5T4R4
- 781. *Nepeta cataria* L.: III-V (14,29,40); H (Ch), Eua (M); H3T3R4

782. *N. pannonica* L.: II-IV (22,29,14,!); H-Ch, Eua (C); H2T3R0
783. *Glechoma hederacea* L.: I-V; Eua; H3.5T3R0
- ssp. *hirsuta* (W. et K.) F. Hermann (*G. hirsuta* W et K.): IV-V(25,24,40,!); H-Ch, P-M; H2.5T3R4
784. *Prunella grandiflora* (L.)Jacq.: I (6), IV (5,!); H, E (M); H3T3R4.5
785. *P. vulgaris* L.: I-V; H, Cp; H3T3R0
786. *Lamium amplexicaule* L.: IV-V (5,18,!); Th, Eua (M); H2.5T3.5R0
787. *L. album* L.: I-V; H, Eua; H3T3R0
788. *L. galeobdolon* (L.)Nathh. (*Galeobdolon luteum* Huds.): II-IV (29,5,!); H (Ch), Ec; H3T0R4
789. *L. maculatum* L.: II-IV (22,5,25,!); H (Ch), E; H3.5T0R4
790. *L. purpureum* L.: III-V (29,5,25,18,40,!); Th (H), Eua; H3T0R4
791. *Galeopsis ladanum* L.: III-V (15,29,5,40,!); Th, Eua; H2T0R4.5
792. *G. pubescens* Bess.: I (23), IV (14,25); Th, Ec; H3T3R0
793. *G. speciosa* Mill.: I-V; Th, Eua (C); H3T2R0
794. *G. tetrahit* L.: I (23,!), III-IV (29,5,25,!); Th, Eua; H3T3R0
- var. *sylvestris* Schlecht: I (14)
795. *Chaeturus marrubiastrum* (L.)Rechb.: IV-V (5,25,40,!); Th-TH, Eua (C); H4T3R0
796. *Leonurus cardiaca* L.: III-V (14,5,25,18,!); H, Eua; H3T4R4.5
797. *Ballota nigra* L.: I-V; H (Ch), Ec-M; H2T3.5R4
798. *Stachys alpina* L.: I (14); H, Ec; H3T2R0
799. *S. annua* (L.)L.: III-V (29,6,18,!); Th,M; H3T3.5R4.5
800. *S. palustris* L.: I (23!), IV-V (5,43,18,!); H (G), Cp; H4T3R4
801. *S. recta* L.: III-V (14,29,5,33,18,1); H, P-m; H2T4R4.5
802. *S. sylvatica* L.: III-V (29,5,25,24,40,!); H, Eua; H3.5T0R0
803. *Betonica officinalis* L.: I-V ; H, Eua (M); H3T3R0
804. *Salvia austriaca* Jacq.: III-V (33,6,18,!); H, P-Pn; H2T3.5R4
805. *S. glutinosa* L.: II (22,!); H, Eua; H3.5T4R3
806. *S. nemorosa* L.: III-V (29,5,25,40,!); H, Ec; H2.5T4R3
807. *S. pratensis* L.: III-V (15,5,33,40,!); H, E(M); H2.5T3R4.5
808. *S. x sylvestris* L. (*nemorosa x pratensis*): III (14), V (14,40)
809. *Melissa officinalis* L.: IV-V (14,40); H,M; H2T4R0
810. *Calamintha acinos* (L.)Clairv.: II (22,!); IV (5,25,!); Th-TH, E(M); H1.5T3.5R4
811. *C. clinopodium* Spenn. (*C. vulgaris* (L.)Druce): IV-V (25,5,24,!); H, Cp; H2T3R3
812. *C. sylvatica* Bromf.: IV-V (14,27,25,!); H, Ec-M; H2.5T3.5R5
813. *Origanum vulgare* L.: II-IV (29,25,!); H, Eua (M); H2.5T3R3
814. *Thymus glabrescens* Willd.: II-IV (14,25); Ch,P-Pn; H2T4R0
815. *T. pannonicus* All. (*T. marschallianus* Wild.): II-V (22,14,40,5,!); Ch, Eua (C); H1.5T3.5R4
816. *T. pullegioides* L.: I-IV 932,6,25,!); Ch,Ec; H2.5T3R3
817. *Lycopus europaeus* L.: I-V (23,31,12,34,5,24,!); Hh, Eua; H5T3R0
818. *L. exaltatus* L. f.: V (24,40,!); Hh, Eua (C); H5T3R0
819. *Mentha aquatica* L.: I (31,!), IV (6,43,!); Hh-H, Eua; H5T3R0
- var. *riparia* (Schreb.)Gusul.: III (14), V (14,40)



820. *M. arvensis* L. ssp. *arvensis*: I (30,!), IV (5), V 940,!); H-G, Cp; H4T3R0  
 - var. *foliicoma* (Op.)Top: III, V (14)  
 - var. *varians* (Host)Top: I (14)  
 - var. *pascuorum* Top: V (40)  
 - ssp. *austriaca* (Jacq.)Top var. *austriaca*: V (14,40)  
 - var. *hostii* (Bor.)Top: IV (14)  
 - var. *politzensis* Top: V (14)  
 - var. *cuneifolia* Lej. et Court.: V (40)  
 821. *M. x dalmatica* Tausch (*arvensis* x *longifolia*): V (40)  
 - var. *skofitziana* (A.Kern.)Briq.: IV-V (14,40)  
 822. *M. longifolia* (L.)Nathh. ssp. *longifolia*: I-V; H (G), Eua (M); H4.5T3R0  
 - var. *ensidens* Briq.: V (40)  
 - var. *barthiana* (Borb.)Top: IV-V (14)  
 - var. *balsamiflora* (H.Br.)Top: V (40)  
 - ssp. *mollissima* (Borkh.)Dom.: V (40)  
 - var. *brassocensis* Top: III (14)  
 - var. *eclytanthea* Top: IV (14)  
 - var. *hollosyana* (Borb.)Top: III (14), V (14,40)  
 - var. *ischmostachya* Top: IV (14)  
 - var. *leioneura* (Borb.)Top: III-V (14,40)  
 - var. *marisensis* (Simk.)Top: V (40)  
 - var. *paramccophyllon* Top: III (14), V (40)  
 - ssp. *incana* (Willd.)Gusul. var. *macilenta* Briq.: V (14,40)  
 - var. *planitiensis* Top: V (14,40)  
 - var. *retinervis* (Borb.)Gusul.: IV (14)  
 - var. *wierzbickiana* (Op.)Briq.: III (14), V (40)  
 - var. *viridescens* (Borb.)Gusul.: III, IV (14)  
 823. *M. pulgium* L.: I-V; H, Eua (M); H4T3R5  
 824. *M. verticillata* L.: I (32); H, E; H4.5T0R0  
 - var. *calaminthaefolia* (Host.)Top: III (14)  
 - var. *ovatifolia* Top: III (14), V (14,40)  
 - var. *scrotina* (Host.)Top: I (23)

#### PLANTAGINACEAE

825. *Plantago altissima* L.: III (14); H, B-Pn; H4T3R4  
 826. *P. argentea* Chaix.: III-IV (14,29,25); H, M; H1.5T4.5R4  
 827. *P. lanceolata* L.: I-V; H, Eua; H0T0R0  
 828. *P. major* L.: I-V; H, Eua; H3T0R0  
 829. *P. media* L.: I-V; H, Eua; H2.5T0R4.5  
 830. *P. maritima* L.: III (14), V (18); H, Eua; H4T0R5  
 831. *P. schwarzenbergiana* Schur: III (14); H, Pn-D; H3.5T4R5

#### GENTIANACEAE

832. *Menyanthes trifoliata* L.: I-III (14,23,32,!); Hh, Cp; H5T5R5

833. *Nymphoides peltata* (S.G.Gmel.)O.Ktze.: V (!); Hh, Eua (M); H6T3R4  
 834. *Centaureum erythraea* Rafn. (*C. umbellatum* Gilib.): III-V (34,29,5,40,!); Th, Eua: H3T3R2  
 835. *C. littorale* (D. Turner)Gilmour ssp. *uliginosum* (W. et K.)Rothm. (*C. uliginosum* (W. et K.)Beck): III (14.); Th-TH, Eua; H4T3R4.5  
 836. *C. pulchellum* (Sw.)Druce: I (14), III-V (14,40,25,!); Th, Eua; H4T3.5R4  
 837. *Gentiana asclepiadcea* L.: I-IV (6,23,29,14,!); H, Ec; H4T2R4  
 - f. *cruciata* Wartm. et Schlatt.: I (32)  
 838. *G. pneumonanthe* L.: I (23,32,!), III (14,29), IV (14); H, Eua (M); H4T3R0

#### VINCACEAE

839. *Vinca minor* L.: III-V (14,5,29,25); Ch, Ec-M; H3T3R3

#### ASCLEPIADACEAE

840. *Cynanchum vincetoxicum* (L.)Pers.: II-V (22,29,5,25,24,40,!); H, E (M); H2T4R4

#### OLEACEAE

841. *Fraxinus angustifolia* Vahl.: V (24,!); MPh, P-Pn; H4,5T4R4.5  
 842. *F. excelsior* L.: II (22,!), III (29), V (24,27,!); MPh, E; H3T3R4  
 843. *F. ornus* L.: IV (14,5,25); mPh-MPh, M; H1,5T3,5R5  
 844. *Ligustrum vulgare* L.: III-V (29,5,25,24,!); mPh, E (M); H2,5T3R3

#### RUBIACEAE

845. *Sherardia arvensis* L.: IV-V (14,5,25,40); Th, Eua; H3T3R3  
 846. *Asperula arvensis* L.: III (14), IV (14,25); Th, M; H2T4R4  
 847. *A. campanulata* Klokov (*A. glauca* (L.)Bess.): II-IV (14,22,29,5,25,!); H, P-M; H2T4R4  
 - f. *hirsuta* (Wallr.)Borza: III (14)  
 848. *A. cynanchica* L.: II (!), IV-V (5,40,!); H, P-M; H2T3,5R4.5  
 849. *A. odorata* L.: II-IV (22,29,25,!); G, Eua; H3T3R3  
 850. *A. rivalis* Sibth. et Sm.: I (14,23), III-IV (14); H, Eua; H5T3R3  
 851. *Galium aparine* L.: I-V; H Eua; H3T3R3  
 852. *G. boreale* L.: I-III (14,6,29,!); H, Eua; H4T2R4  
 853. *G. mollugo* L. ssp. *mollugo*: III-V (29,5,18,!); H, Eua; H3T0R3  
 - ssp. *erectum* (Huds.)Briq. var. *erectum*: I (14), II (14,22,!), III, V (14)  
 - f. *deminutum* (Nyár.)Borza: III (14)  
 854. *G. palustre* L.: I-II (23,22,!), V (27,40,!); H, Cp; H5T3R0  
 855. *G. schultesii* Vest.: IV V (5,25,24,!); G, Ec; H2,5T3R3  
 856. *G. rubioides* L.: III-V (14,5,40); H, Ec; H4T3R4  
 857. *G. tricornerutum* Dandy: III-V (14,5,25,40); Th, Eua (M); H2,5T3,5R0  
 858. *G. uliginosum* L.: I (6,23,14,!), IV (14); H, Eua; H4,5T3R4  
 859. *G. verum* L.: I-IV (6,22,34,29,25,!); H, Eua; H2,5T2,5R0  
 860. *Cruciata glabra* (L.)Ehrend. (*Galium verum* Auct.): I-V; H, Eua; H3T2R2

861. *C. laevipes* Opiz (*Galium cruciata* (L.) Scop.): I-IV; H, Eua; H2.5T3R3

#### CAPRIFOLIACEAE

862. *Sambucus cbulus* L.: III-V (29,5,18,!); H, Eua (M); H3T3R4.5

863. *S. nigra* L.: III-V (15,5,25,24,!); mPh-MPh, E; H3T3R3

864. *S. racemosa* L.: I (!), II (22,!); mPh, Eua; H3T2R3

865. *Viburnum lantana* L.: II-IV (22,6,25,!); mPh, Ec-M; H2.5T3R4.5

866. *V. opulus* L.: I-V; mPh, Cp; H4T3R4

867. *Lonicera nigra* L.: I (23,30,!); mPh, E; H3T2R3

868. *L. xylostecum* L.: III-IV (29,5,!); mPh, Eua; H3T3R4

#### VALERIANACEAE

869. *Valerianella locusta* (L.) Betsche: III-V (14,29,47); Th, Ec-M; H3T3.5R4

- f. *dasycarpa* (Rechb.) Borza: V (40)

871. *Valeriana officinalis* L.: I-V; H, Eua (M); H4T3R4

- f. *altissima*

872. *V. simplicifolia* (Rechb.) Kabath: I (6,32,!); H, Ec; H5T2R2

873. *V. tripteris* L.: II (22,!); H, Ec; H3T0R4.5

#### DIPSACACEAE

874. *Cephalaria pillosa* (L.) Gren. (*Dipsacus pilosus* L.): IV-V (14,25,40,!); TH, Atl-M; H4T3.5R4

875. *Dipsacus laciniatus* L.: III-V (29,40,!); Th, Eua (C); H4T3.5R4

876. *Succisa pratensis* Mnch.: I (6,32,!), III-IV (14,29); H, Eua; H4T3R0

877. *Succisella inflexa* (Kluk) G. Beck: IV V (14,40); H, Ec; H4T3R0

878. *Knautia arvensis* Coult. ssp. *arvensis*: I (32,!), III (29), IV (5,25,!); H, E; H2.5T3R0

- var. *polymorpha* (Schm.) Szabó f. *pratensis* (Schm.) Szabó: I (14), II (22), V (14)

- f. *jasionca* (Borb.) Szabó: V (14)

- var. *kitaibeli* (Sv. hult.) Szabó: V (40)

- ssp. *rosea* (Baumg.) Borb. (*K. dumetorum* Heuff.): IV (5,!); H, D-B; H2T4R3

- f. *heterotoma* (Borb.) Szabó: IV (14)

- f. *nitidula* (Simk.) Szabó: IV (14)

- f. *rosea* (Baumg.) Szabó: IV (14)

879. *Scabiosa banatica* W. et K.: I (14), III (14), IV (14,25); H, D-B; H2T2.5R4

880. *S. ochroleuca* L.: I (6), III-V (34,5,18,!); H, Eua (C); H2T4R4

#### CUCURBITACEAE

881. *Bryonia alba* L.: III-V (29,5,40,!); H-G, Eua (C); H3.5T4R0

882. *B. dioica* Jacq.: IV (14,5,25); H, E; H3.5T3R5

883. *Echinocystis lobata* (Mchx.) Torr. et Gray (*E. cchinata* (Muhl.) Britt., Stern et Pogg.) II-V (25,!); Th, Adv; H4T0R4

884. *Sicyos angulata* L.: IV (14); Th, Adv; H4.5T3R4

#### CAMPANULACEAE

885. *Campanula abietina* Gris. et Sch.: II (14); TH, Carp-B; H3.5T2R2  
 886. *C. cervicaria* L.: I (6); H, Eua (C); H2.5T3R3  
 887. *C. glomerata* L.: I (6), III-V (29.5,25.40); H, Eua; H2.5T3R4  
 - f. *ramosa* Nyár.: III(14)  
 888. *C. latifolia* L.: III-IV (29.14); H, Eua; H3T0R3  
 889. *C. patula* L.: I-IV (6,22,29,5,25,40.!); TH, E; H3T2.5R3  
 - f. *flaccida* (Wallr.)Nyár.: IV (43)  
 890. *C. persicifolia* L.: II (!), III-IV (29.5,!); H, Eua (M); H3T3R0  
 891. *C. rapunculoides* L.: I (!), II (22.!), IV (5.!); H, Eua; H3T2R0  
 892. *C. serrata* (Kit.)Hendrych (*C. napuligera* Schur): I (14); H, C-B; H0T2.5R0  
 893. *C. trachelium* L.: II (22), IV (5), V (24.!); H, Eua (M); H3T3R3  
 894. *Adenophora liliifolia* (L.)Bess.: I (23.14); H, Eua (C); H0T4R4  
 - f. *stylosa* (Lam.)Jav.: I (42)  
 895. *Phyteuma tetramerum* Schur: I (14); H, Carp (End); H3T3.5R3

#### ASTERACEAE

896. *Eupatorium cannabinum* L.: II-V (29,5,25,40.!); H, Eua (M); H4T3R0  
 897. *Solidago canadensis* L.: III-V (14,!); H, Adv; H3.5T3R3  
 898. *S. gigantea* Ait. (*S. serotina* Ait.): IV-V (14,40,25); H, Adv; H3.5T3R3  
 899. *S. virgaurea* L. ssp. *virgaurea*: II-IV (29.!); H, Cp; H2.5T3R3  
 - var. *latifolia* Koch f. *cylindrica* Ny r.: IV (43)  
 900. *Bellis perennis* L.: IV-V (5,25,40,!); H, E (M); H3T2.5R0  
 901. *Aster amellus* L.: III-IV (14,25); H, Eua (C); H2T3R4  
 902. *A. punctatus* W. et K. ssp. *punctatus* (*A. sedifolius* L.): III-V (29,14,27,25,40,!); H, Eua (C); H4T3R2  
 - var. *squamosus* (Lallem.)Morariu et Nyár.: V (14,40)  
 903. *A. tripolium* L. ssp. *tripolium*: III (29,34,!); H, Eua (M); H5T0R5  
 - ssp. *pannonicus* (Jacq.)Soó: V (45,!);  
 904. *Erigeron acris* L. ssp. *acris*: I-IV (14,6,22,5,!); Th-H, Cp; H2.5T3R0  
 905. *E. annuus* (L.)Pers. (*Stenactis annua* (L.)Nees) ssp. *annuus*: II-V (14,5,18,!); Th, Adv; H4T0R4  
 - ssp. *strigosus* (Muhlbg.)Soó (*Stenactis ramosa* (Wallr.)Don.): III-V (25,43,18,!); Th, Adv; H3T3R0  
 906. *E. canadensis* L.: II-V (5,25,18,!); Th-TH, Adv; H2.5T0R0  
 907. *Filago arvensis* L.: III-V (29,5,25,40); Th, Eua (M); H2T3.5R0  
 908. *F. germanica* L.: III-V (14,25,40,!); Th, eua (M); H2T3R0  
 909. *F. minima* (J.E.Sm.)Pers. (*F. montana* L.): IV-V (14,5); Th, Eua; H2T3R4  
 910. *Antennaria dioica* (L.)Gaertn.: I-II (6,23,22,!); H-Ch, Cp; H3T1R2.5  
 911. *Gnaphalium luteo-album* L.: IV-V (43,14,40); Th, Cosm; H4T3.5R3  
 912. *G. uliginosum* L.: III (!), V (18,!); Th, Eua; H5T3R4  
 - var. *nudum* (Hoffm.)Koch-Hall. f. *pilulare* (Wahlbg.)Ny r.: V (40)  
 - var. *strictum* Nyár.: III (14)  
 913. *Inula britannica* L.: III-V (14,34,25,4,27,!); TH-H, Eua (M); H3T3R0

914. *I. helenium* L.: III-V (14,29,5,!); H, Adv; H4T3R3  
915. *I. hirta* L.: I (6,!), III-IV (14,29,5,!); H, Eua (C); H2T4R5  
916. *I. salicina* L. ssp. *salicina*: I (6,!), III-V (14,29,25,!); H, Eua: H2.5T3R3  
- var. *glabra* Beck: V (14)  
- var. *subhirta* C.A.Mey: III (14), V (40)  
917. *Pulicaria dysenterica* (L.)Gaertn.: IV-V (5,14,40,!); H, E (M); H4T3.5R0  
918. *P. vulgaris* Gertn.: III-V (14,25,18,!); Th, Eua (M); H4T3R3  
919. *Carpesium cernuum* L.: IV-V (14,25,24); Th, Eua (M); H3.5T3.5R5  
920. *Telekia speciosa* (Schreb.)Baumg.: II (22,!), IV (25); H, C-B-Cauc; H4T2R0  
921. *Xanthium italicum* Moretti: IV-V (14,25,43,40,!); Th, Adv; H3.5T4R0  
922. *X. spinosum* L.: III-V (29,5,18,!); Th, Adv; H2.5T4R3  
923. *X. strumarium* L.: III-V (14,29,18,!); Th, Eua: H3.5T3.5R4  
924. *Helianthus decapetalus* L.: III-IV (14,!); H, Adv; H3.5T3R4  
925. *Rudbeckia laciniata* L.: III (14); H, Adv; H4.5T4R4  
926. *Bidens cernua* L.: III-V (29,40,!); Th,Eua: H5T0R0  
927. *B. tripartita* L.: II-V (22,5,27,18,!); Th,Eua; H4.5T3R0  
- f. *dumosa* Nyár.: V (14)  
928. *Galinsoga parviflora* Cav.: III-V (40,!); Th, Adv; H3.5T0R3  
929. *Anthemis arvensis* L.: I-V; Th, E (M); H3T3R0  
930. *A. austriaca* Jacq.: III (42), V (47,40); Th, Eua (C); H2T4R4.5  
931. *A. cotula* L.: V (18,40); Th, Cosm; H2.5T4R0  
932. *A. macrantha* Heuff.: IV (14); H, Carp-B; H3.5T2R4  
933. *A. ruthenica* M.B.: III-IV (14,5); Th, E (C); H2T4R4  
934. *A. tinctoria* L.: II (22,!), IV (25); H, Eua: H1.5T3R3  
- ssp. *tinctoria* f. *monocephala* Jka.: IV (14)  
- ssp. *fussii* (Gris.)Beldic: II (14); H, Carp-B; H2T2R3  
935. *Achillea collina* Becker: II-V (22,33,5,25,47,!); H, Ec: H2T3R3  
936. *A. chrysanthifolia* W. et K.: IV-V (5,14,25,27); H, B-Pn; H2.5T4R0  
937. *A. distans* W. et K. ssp. *distans*: I (6,32,!), II (22,!); H, Ec: H2.5T3R4  
- ssp. *stricta* (Schleich.)Janch. (*A. stricta* Schleich.): I-II (14); H, Alp-B; H2.5T2R3  
938. *A. × girgioensis* Ny r. (*impatiens* × *ptarmica*): I (14,23,!);  
- f. *serrata* Nyár.: I (14)  
- f. *incisa* Nyár.: I (14)  
939. *A. impatiens* L.: I (14,6,23); H, Eua (C); H4.5T2.5R2.5  
940. *A. × maxima* (Heuff.)Prod. (*distans* × *millefolium*): I (14,42)  
941. *A. millefolium* L.: I-V; H, Eua: H3T0R0  
942. *A. ptarmica* L.: I (14,23,6,!), IV (14); H, Eua; H4.5T0R2.5  
943. *A. setacea* W. et K.: I (!), IV-V (25,40,!); H, Eua (C); H2T3R5  
944. *Matricaria chamomilla* L.: III-V (29,5,18,!); Th, Eua (M); H3T3R0  
945. *M. matricarioides* (Less.)Porter: I-III (14,!); Th, Adv; H3T0R0  
946. *Tripleurospermum inodorum* (L.)Schultz-Bip. (*Matricaria inodora* L.): III-V  
(6,18,47,!); Th-TH, Eua: H0T3R3.5  
947. *Chrysanthemum corymbosum* L.: II-V (14,22,29,5,25,!); H, Eua (M); H2.5T2.5R3  
- ssp. *clusii* (Fischer)Heywod: I (14)

948. *C. leucanthemum* L. ssp. *leucanthemum*: I-V; H, Eua; H3T0R0  
 - var. *lanccolatum* (pers.)Beck f. *lanccolatum*: I (!), IV (43)  
 - var. *auriculatum* (PETERM.)Nyár. f. *pinnatifidum* (Lec. et Lam.) Jav.: I (14)  
 - f. *ramosum* Nyár.: I (14)  
 - f. *silvestre* (Pers.)Nyár.: I (14)  
 - f. *praestans* (Burm.)Nyár.: III (14)  
 - f. *acquidentatum* Nyár.: V (14)  
 - f. *ramulosum* Nyár.: II, IV (14)
949. *C. serotinum* L.: IV-V (14); H. P-Pn; H4T4R0
950. *Tanacetum vulgare* L. (*Chrysanthemum vulgare* (L.)Bernh.): II-V (29,27,40,!); H, Eua; H3T3R0
951. *Artemisia absinthium* L.: II-V (22,5,25,40,!); Ch-H, Eua (M); H2T3.5R0
952. *A. annua* L.: III-V (25,43,!); Th, Eua; H3T4R4
953. *A. maritima* L. ssp. *salina* (Willd.)Gams: III (14), V (!); Ch (H), Eua (C); H2.5T3R0  
 - ssp. *monogyna* (W. et K.)Gams: III (14)
954. *A. pontica* L.: V (27,40,!); H (Ch), Eua (C); H2.5T4R4.5
955. *A. scoparia* W. et K.: IV-V (14,25); H, Eua (C); H3T3R0
956. *A. vulgaris* L.: II-V (22,34,18,!); H-Ch, Cp; H3T3R4
957. *Tussilago farfara* L.: II-V (22,29,5,40,!); G-H, Eua; H3.5T0R4.5
958. *Petasites albus* (L.)Gartn.: II-III (22,29,!); G (H), Eua; H3.5T0R0
959. *P. x celakovskyi* Matuschek (*albus x kablikianus*): II (14,22)
960. *P. hybridus* (L.)G.M.Sch.: II-IV (22,29,5,!); G (H), Eua; H5T3R3
961. *P. x intercedens* Matuschek (*hybridus x kablikianus*): II (14)
962. *P. kablikianus* Tausch.: II (22,!); G (H), Carp-B; H4T0R0
963. *P. x rechingeri* Hay. (*albus x hybridus*): II (14)
964. *Homogyne alpina* (L.)Cass.: I (23); H, E; H3.5T2.5R2.5
965. *Doronicum austriacum* Jacq.: I-II (23,22,!); H, Ec; H3.5T2R3
966. *D. hungaricum* (Sadl.)Rechb. f.: III-IV (14,29); G (H), Ec-B; H2T3R4
967. *Senecio barbaracifolius* (Krock.)Wimm. et Grab.: III (14), IV V (14,40); H, Ec; H3.5T3.5R4.5  
 - f. *foliosus* Nyár.: III (14), IV (43)
968. *S. doria* Nath.: III-V (14,18,!); H, Eua (C); H3T0R3.5  
 - ssp. *schwetzovii* (Korsch)Nyár.: III-V (14,5,40)
969. *S. crucifolius* L.: IV-V (14); H, Eua; H3T3.5R4.5  
 - var. *tenuifolius* (Jacq.)DC.: IV (14,5)
970. *S. fluviatilis* Wallr.: I (23,!), III-IV (14); H, Eua (C); H5T4R4
971. *S. jacobea* L.: I (6,!), III-V (29,5,40,!); H, Eua; H2.5T3R3
972. *S. nemorensis* L. ssp. *nemorensis*: I (!); H, Eua; H3.5T3R3  
 - var. *germanicus* (Wallr.)Beck f. *jacquinianus* (Rechb.)Weiss: I (14)  
 - ssp. *fuchsii* (Gmel.)Celak. (*S. fuchsii* Gmel.): I (30,!)
973. *S. paludosus* L.: I (14,31,23,!), V (14,18,!); H, Eua; H4.5T3.5R0  
 - var. *glabratus* Koch: V (40)  
 - var. *tomentosus* (Host.)Koch: V (40)
974. *S. papposus* (Rechb.)Less.: I (14,32), IV (14); H, Carp-B; H3T2R2.5

- var. *sulphureus* (Baumg.)Cuf.: I (14)
- var. *integerrimus* (Schur)Cuf.: I (14)
- f. *wolffii* (Schur)Cuf.: I (42)
- var. *heuffelii* (Jav.)Cuf.: IV (14)
- 975. *S. sylvaticus* L.: IV-V (14); Th, E; H3T3R3
- 976. *S. vernalis* W. et K.: III-V (14,40.!); Th-TH, Eua (C); H2.5T4R0
- 977. *S. viscosus* L.: IV (14); TH, E (M); H2T3.5R2.5
- 978. *S. vulgaris* L.: III-V (29,25,18.!); Th-TH, Eua; H3T0R0
- 979. *Ligularia sibirica* (L.)Cass.: I (14,23,32.!); H, Eua; H4T2R3.5
- f. *arancosa* (DC.)E.Pop: I (23,!);
- 980. *Echinops commutatus* Jur.: III-V (14,5,!); H, Alp-Carp-B; H2T0R4
- 981. *E. sphaerocephalus* L.: III-V (14,29,5,43,40.!); H, Eua (C); H2T4R4.5
- 982. *Xeranthemum annuum* L.: III-V (29,5,25,40); Th, P-M; H2T4R3
- 983. *X. foetidum* Munch.: V (14.!); Th, P-M; H1.5T4R3
- 984. *Carlina vulgaris* L.: II-IV (14,29,5,!); TH-H, Eua (M); H2.5T3R0
- 985. *Arctium x ambiguum* (Ccl.)Nym. (*lappa x tomentosum*): IV (14)
- 986. *A. lappa* L.: II-V (5,18.!); TH, Eua (M); H3T3R4
- 987. *A. minus* (Hill.)Bernh.: II (14), V (40); TH, E; H3T3R4.5
- var. *involutatum* Nyár.: III (14)
- 988. *A. x nothum* (Ruhm.)Weiss (*lappa x minus*) f. *subracemosum* (Simk.) M th.: III-IV (14)
- 989. *A. nemorosus* Lej. (*A. vulgare* (Hill.)A.H.Evans): IV-V (14,25); TH, E; H3.5T3R0
- 990. *A. tomentosum* Mill.: IV-V (5,40,!); TH, Eua; H3T0R5
- 991. *Carduus acanthoides* L.: II-V (22,29,5,25,18.!); TH, E (M); H2T3R0
- var. *albifrons* Schur: IV (43)
- 992. *C. candicans* W. et K.: IV-V (14); H, B-Pn; H2T3R5
- 993. *C. crispus* L.: III-V (29,5,25,40.!); TH, E; H4T3R0
- 994. *C. hamulosus* Ehrh.: III-V (14,40); TH, P-Pn; H2T4R2
- 995. *C. nutans* L.: IV-V (5,18,!); TH-Th, Eua (M); H1.5T0R4.5
- 996. *C. x orthocephalus* Wallr. (*acanthoides x nutans*): V (14,40)
- 997. *C. personata* (L.)Jacq.: II, V(14); H, Ec; H4.5T2.5R4.5
- 998. *Cirsium arvense* (L.)Scop.: I-V; G, Eua (M); H0T0R0
- 999. *C. brachycephalum* Jur.: V (14,40); TH-H, Pn (End); H4T3R0
- 1000. *C. canum* (L.)All.: I-V; G, Eua (c); H4.5T3R4.5
- f. *sagittatum* Nyár.: III (14)
- 1001. *C. erisithales* (Jacq.)Scop.: I-II (6,32.!); H, Ec; H3T3R4.5
- 1002. *C. x crucagineum* DC. (*oleraceum x rivulare*): I (14)
- 1003. *C. furiens* Geis. et Sch.: III-IV (14,5.!); Th, Carp-Pn; H2T3.5R4
- 1004. *C. oleraceum* (L.)Scop.: I-II (30,22.!); H, Eua; H4T3R4
- 1005. *C. palustre* (L.)Scop.: I-II (30,22,6,23,!); TH, Eua (M); H4.5T3R2.5
- f. *glomeratum* Næg.: I (14)
- 1006. *C. x praealpinum* Beck (*erisithales x rivulare*): II (14,42)
- 1007. *C. rivulare* (Jacq.)Link.: I-II (23,6,22,!); H, Ec; H4T3.5R0
- 1008. *C. x subalpinum* Gaud. (*palustre x rivulare*): I (14).

1009. *C. x tataricum* (L.)All. (*canum x oleraceum*): I (14)
1010. *C. vulgare* (Savi)Ten. (*C. lanceolatum* (L.)Scop.): III-V (34,5,25,18,!); TH, Eua; H3T3R0
1011. *C. waldsteinii* Rouy: II (14); H, Aip-Carp-B; H4T2R2
1012. *Onopordon acanthium* L.: III-V (29,5,18,!); TH, M; H2.5T4R4
1013. *Serratula tinctoria* L.: I (6!), III-V (34,29,5,18,!); H, Eua (M);H3.5T3R0  
- var. *variifrons* (Beck)Nyár: I, III (14)
1014. *Centaurea x austriacoides* Woloszcz (phrygia x jacea): I (14,42)
1015. *C. x beckeriana* J. Wagn. (*jacea* ssp. *banatica* x *indurata*): IV (14,25)
1016. *C. x baumgarteniana* J. Wagn. (*indurata* x *pseudophrygia*): I (14,42)
1017. *C. x brasoviana* (*melanocalathia* x *pseudophrygia*): I (14)
1018. *C. calcitrapa* L.: IV-V (14,5,40); TH-Th, Eua (M); H1.5T4R0
1019. *C. cyanus* L.: I (!), III-V (5,25,18,!); Th, Cosm; H3T4R0
1020. *C. x erdneri* J. Wagn. (*phrygia* x *pseudophrygia*): I-II (14(!))
1021. *C. indurata* Janka: I, III (!), IV V (40,!); H, D-Pn; H3T3R3
1022. *C. jacea* L.: I-II (!), III (14,34), IV-V (33,14,!); H, Eua; H3T0R0  
- ssp. *banatica* (Roch.)Fiay (*C. banatica* Roch.): IV-V (14,5,40)  
- f. *fastigiata* Prod.: V (14)
1023. *C. x markiana* J. Wagn. (*jacea* ssp. *banatica* x *pseudophrygia*): IV-V (14,25)
1024. *C. melanocalathia* Borb.: I-II (14,6); H, Ec; H3T2.5R0
1025. *C. micranthos* Gmel.: II-V (14,5,22,34,4,25,40,!); Th-H, Ec; H2T3.5R4
1026. *C. nigrescens* Willd.: III-V (14,25,40); H, Ec; H3.5T3R3
1027. *C. x nyaradyana* J. Wagn. (*jacea* x *melanocalathia*): I (14)
1028. *C. x orodensis* J. Wagn. (*jacea* ssp. *banatica* x *nigrescens*). V (14,40)
1029. *C. phrygia* L. (*C. austriaca* Willd.): I-V; H, Ec; H3T2.5R3
1030. *C. pseudophrygia* C.A.Mey: I-II (14,6,32); H, Ec; H3T0R3
1031. *C. scabiosa* L. ssp. *scabiosa*: I (14), V (18); H, Eua (M); H2.5T0R4  
- f. *silesiaca* (Borb.)Soó: I (14)  
- ssp. *spinulosa* (Roch.)Hay (*C. spinulosa* Roch.): IV-V (14,25);
1032. *C. solstitialis* L.: III-V (14,5,40,25,!); TH-Th, Eua (M); H2T4R0
1033. *C. x spuria* Kern. (*jacea* ssp. *angustifolia* x *stenolepis*): V (14)
1034. *C. stoebé* L. (*C. rhenana* Boreau): II-IV (14,!); TH-H, Ec (M); H2T3.5R4.5
1035. *C. x szöllösi* J. Wagn. (*indurata* x *jacea* ssp. *angustifolia*): III-V (14,26)
1036. *Cichorium intybus* L.: II-V (34,29,5,25,18,!); H-TH, Eua; H2.5T3.5R4.5
1037. *Lapsana communis* L.: IV-V (5,25,24,40,!);Th-TH, Eua (M); H2.5T3R3
1038. *Hypochoeris maculata* L.: I-III (6,32,29,22,!); H, Eua (C); H0T3.5R3.5  
- f. *leiophylla* (Borb.)Nyár: I (14)  
- f. *nitida* Nyár: I (14)
1039. *H. radicata* L.: III-IV (25,!); H, E; H3T3R2.5
1040. *Leontodon autumnalis* L.: I-V; H, Eua; H3T0R0
1041. *L. hispidus* L. ssp. *hispidus*: III-IV (33,5,25,!), I (6,!); H, Eua; H2.5T0R0  
- f. *denticulatus* Csong.: III (14)  
- f. *lobatus* Ny r.: III (14)  
- f. *variifrons* Ny r.:III-IV (14)



- ssp. *hastilis* (L.) Rchb. (*L. danubialis* Jacq.): I (6,!), II (!), III(29), IV (25); H, Eua; H3T3R0
- f. *integrifolius* Csong.: I (14)
- f. *sinuato-dentatus* Csong.: I-II (14)
- 1042. *L. saxatilis* Lam. (*L. nudicaulis* (L.) Banks.): III (14,34); TH-H, Atl-M; H3T3R4
- 1043. *Picris echioides* L. (*Helminthia echioides* (L.) Gaertn.): V (14); TH-Th. Adv; H2.5T4.5R4
- 1044. *P. hieracioides* L. ssp. *hieracioides*: III-IV (29,5,25,!); V (18); TH-H, Eua; H1.5T3R4
- f. *racemosa* Nyár.: III (14)
- f. *ruderalis* (Schm.) Beck: III (14)
- 1045. *Tragopogon dubius* Scop.: III-IV (14,!); TH, P-M; H2.5T3.5R0
- var. *campestris* Bess.: IV (5)
- 1046. *T. orientalis* L.: II-V (22,33,5,40,!); TH-H, Eua; H3T3R4
- var. *hayekii* (Soe) Nyár.: III (14)
- 1047. *Scorzonera hispanica* L.: III-IV (14,29,25); H, Eua (M); H2T5R4
- 1048. *S. parviflora* Jacq.: III (14,34,!); V (!); TH-H, Eua (C); H4T3.5R4
- 1049. *Podospermum canum* C.A.Mey.: IV-V (14,40); H (TH), P-M; H2T4R4.5
- 1050. *P. laciniatum* (L.) DC.: III-V (14,5,18,!); Th (TH), Eua; H2T0R4
- var. *muricatum* (Baalb.) Bisch.: III (14)
- 1051. *Chondrilla juncea* L.: IV-V (5,25,40,!); H, Eua (C); H1.5T3.5R4
- var. *latifolia* (M.B.) Koch: V (40)
- 1052. *Taraxacum bessarabicum* (Hornem.) Hand.-Mazz.: III (34,!); V (14,40,!); H, Eua (C); H4T3R4
- 1053. *T. officinale* Weber: I-V; H, Eua (Cosm); H3T0R0
- 1054. *T. scrotinum* (W. et K.) Poir.: IV-V (14,18); H, P-Pn; H2T4R4.5
- 1055. *Mycelis muralis* (L.) Dum.: III-V (29,24,25); H, E; H3T3R0
- 1056. *Lactuca x dichotoma* Simk. (*saligna x serriola*): V (14,40)
- 1057. *L. quercina* L. ssp. *quercina*: III-IV (14,29,25); TH, Ec; H2.5T3.5R4
- ssp. *sagittata* (W. et Kc) Celak. (*L. chaixii* Auct.): III-IV(14,5,25); TH, P-Pn; H2T3.5R4
- 1058. *L. saligna* L.: IV-V (5,25,18,!); Th-TH, M; H1.5T4R4
- f. *runcinata* (Gren. et Godr.) Berger: V (40)
- 1059. *L. serriola* Torner: III-V (25,18,!); Th-TH, Eua(M); H1.5T3.5R0
- var. *integrata* Gren. et Godr.: V (40)
- 1060. *Sonchus arvensis* L.: III-V (5,25,!); H, Eua (Cosm); H3T3R4
- 1061. *S. asper* (L.) Hill.: III-V (5,25,18); Th, Eua; H3.5T3R4
- f. *glandulosus* Beckh.: III (14)
- 1062. *S. oleraceus* (L.) Gou.: II-V (29,25,18,!); Th, Eua; H2.5T3R4.5
- var. *laceratus* (Willd.) Wallr.: V (14,40)
- 1063. *S. palustris* L.: I (14), III (14,29); H, Eua; H4.5T3.5R4
- 1064. *Crepis biennis* L.: I-V; TH, E; H3T3R4
- var. *lacera* Wimm. et Grab. f. *banatica* (Roch.) Ny r.: V (40)
- 1065. *C. foetida* L. ssp. *foetida*: IV (26); Th, Eau; H2T3.5R3
- ssp. *rhocadifolia* (M.B.) Fiori et Paol. (*C. rhocadifolia* M.B.): IV-V (5,40,18,!); Th, Eua; H2.5T3.5R3

1066. *C. paludosa* (L.) Munch.: I (31), II (12); H, E; H4.5T0R4.5  
 1067. *C. praeorsata* (L.) Tausch: I (14), III (14,29), IV (14,25); H, Eua; H2T3.5R5  
 1068. *C. setosa* Hall.: V (18); Th, Atl-M; H2T3R3  
 1069. *C. tectorum* L.: III-V (29,40,41); Th, Eua (C); H2.5T0R0  
 1070. *Hieracium x atramentarium* N.P. (*aurantiacum x piloselloides*)  
 - var. *atramentarium*: I (14)  
 - f. *csikense* Nyár.: I (14)  
 - var. *hypochoerifolium* Nyár.: I (14)  
 1071. *H. aurantiacum* L. ssp. *aurantiacum*: I-II (6,31,23,22,21); H, Eua; H2.5T2.5R2  
 - var. *aurantiacum* f. *brevipilum* (N.P.) Nyár.: I (14)  
 - f. *longipilum* (N.P.) Nyár.: II (14)  
 - ssp. *carpathicola* Naeg. et Peter: II (14)  
 - var. *subkajanense* (Zahn) Nyár.: I (14)  
 - f. *longifolium* Nyár. et Zahn: I (14)  
 - f. *ramosum* Nyár.: I (14)  
 1072. *H. auricula* Lam. et DC.: I-IV (22,34,29,25,24); H, E; H3T0R3  
 - var. *acutisquamum* (N.P.) Nyár.: II (14)  
 - var. *lampreilema* (N.P.) Nyár.: I, III (14)  
 - f. *astolonum* Nyár.: I (14)  
 - f. *perlongum* Nyár.: I (14)  
 - var. *melaneilema* (N.P.) Nyár. f. *subpilosum* (N.P.) Nyár.: III (14)  
 - var. *amauricema* (N.P.) Nyár.: I (14)  
 - var. *magnauricula* (N.P.) Nyár.: I (14)  
 1073. *H. x auriculoides* L. ng (*bauhini x echioides*): V (18,40)  
 - var. *paniculosum* Nyár.: III (14)  
 - f. *flagellatum* Nyár.: III (14)  
 - var. *gyergyoense* Nyár.: I (14)  
 - var. *flexiramum* (N.P.) Nyár.: I (14)  
 - var. *tanythrix* (N.P.) Nyár.: I (14)  
 - var. *sarmentosum* (Froel.) Nyár.: III (14)  
 - var. *parvicapitulum* (N.P.) Nyár.: III (14)  
 - var. *semipraecox* (Zahn) Nyár.: III (14)  
 - var. *mirum* (N.P.) Nyár.: III (14)  
 1074. *H. bauhini* Besser: I-V; H, Eua (C); H1.5T3R3.5  
 - ssp. *cryptomastix* (N.P.) Nyár. var. *gemmiferum* (N.P.) Nyár.: IV (14)  
 - ssp. *aerostolonum* Zahn var. *bükkense* Nyár.: III (14)  
 - var. *pseudosparsum* (Zahn) Nyár.: I (14)  
 - ssp. *magyaricum* (N.P.) Nyár. var. *magyaricum*: III (14)  
 - f. *pilosum* N.P.: III (14)  
 - var. *besserianum* (Spreng.) Nyár.: I (14)  
 - f. *calvius* N.P.: I (14)  
 - var. *nigrisetum* (N.P.) Nyár.: I (14)  
 - var. *pseudoauriculoides* (N.P.) Nyár.: III (14)  
 - var. *filiferum* (Tausch) Nyár.: I, IV (14)

- var. *heothinum* (N.P.)Nyár.: I (14)
- ssp. *bauhini* var. *adenoeladum* (Rehm.)Nyár.: I (14)
- var. *ingricum* (N.P.)Nyár.: I, IV (14)
- var. *melachactum* (Tausch)Nyár.: I (14)
- 1075. *H. bifidum* Kit.: I (14); H, Ec; H2.5T2R4.5
- 1076. *H. x blyttianum* Fr. (*aurantiacum* x *auricula*): I (14)
- var. *sandui* (Prod.)Nyár.: I (14)
- var. *detonicum* (N.P.)Nyár.: I (14)
- 1077. *H. x brachiatum* Bertol. (*bauhini* (vel *piloselloides*) x *pilosella*): II (14,22)
- 1078. *H. caespitosum* Dumort ssp. *caespitosum*: I (23), III (14), IV (5); H, Eua; H3T3R3
- var. *silvicolum* Nyár.: I, III (14)
- 1079. *H. x cochleatum* (N.P.)Zahn (*auricula* x *caespitosum*): I (14)
- 1080. *H. cymosum* L.: III-IV (14,5,25); H, Eua (C); H2T3R4
- ssp. *cymosum* var. *cymosum* f. *geotropum* Borb.: III (14)
- 1081. *H. x diaphanoides* Lbg. (*lachenalii* x *sylvaticum*): I (14)
- 1082. *H. cchioides* Lumn.: IV (25); H, Eua (C); H2T3.5R4
- 1083. *H. x fuscum* Vill. (*aurantiacum* x *auricula*): I (14)
- 1084. *H. hoppeanum* Schult.: I (14), III (34), IV (25); H, Ec-M; H3T0R2
- var. *leucolepioides* (Deg. et Zahn)Nyár.: IV (25)
- 1085. *H. x koernickeanum* N.P. (*auricula* x *bauhini*): I, IV (14)
- var. *bauhiniforme* Nyár.: I (14)
- var. *kreuzenense* (Durrnb. et Oborny)Nyár.: I, III (14)
- var. *abortistolonum* Nyár.: III (14)
- var. *denigratum* (N.P.)Nyár.: I (14)
- f. *paucicapitatum* Nyár.: I (14)
- var. *auriculifolium* Nyár.: I (14)
- f. *acutum* Nyár.: I (14)
- 1086. *H. x levicaule* Jord. (*bifidum* x *lachenalii*): I (14)
- var. *psammogeton* (Zahn)Nyár.: I (14)
- ssp. *triviale* (Norrl.)Nyár. var. *serratilanceum* (Zahn)Nyár.: I-II (14)
- 1087. *H. laevigatum* Willd. ssp. *tridentatum* (Fr.)Zahn: I (14); H, Eua; H3T3R2
- 1088. *H. x leptophyton* N.P. (*bauhini* x *pilosella*) var. *leptophyton*: I (14)
- f. *stolonicaule* Zahn: I (14)
- 1089. *H. x longiscapum* Boiss. et Ky. (*auricula* x *caespitosum*): I (14)
- 1090. *H. x megatrichum* Borb. (*auriculoides* x *cymosum*): I (14)
- 1091. *H. x phaetrocheilon* Zahn (*lachenalii* x *pseudobifidum*): I (14)
- 1092. *H. pilosella* L.: I-IV (32,22,29,5,25,!); H, Eua (M); H2.5T0R0
- var. *tricholepium* (N.P.)Nyár.: III (14)
- var. *tomentisquamum* (N.P.)Nyár.: IV (14)
- 1093. *H. piloselloides* Vill.: IV (14,25); H, E (M); H2.5T3.5R4
- var. *devanum* (Zahn)Nyár.: IV (14)
- 1094. *H. x praecurrens* Vukot (*murorum* x *transsilvanicum*): I (14)
- var. *pseudopleiophylloides* (Maly et Zahn)Nyár. f. *palotae* Nyár. et Zahn: I (14)

1095. *H. racemosum* W. et K.: I (6,!), IV (5,25); H, Ec-M; H2T3R3  
 1096. *H. sabaudum* L.: IV (14,25); H, E; H2.5T3.5R2.5  
 1097. *H. x sulphureum* Doll (*auricula x piloselloides*): I (14)  
 1098. *H. sylvaticum* (L.)Grufb. (*H. murorum* L.): IV (25); H, Eua; H3T0R3  
 1099. *H. x schultesii* F. Sch. (*auricula x pilosella*): II (14,22)  
 1100. *H. transsylvanicum* Heuf.: II (14); H, Carp-B; H3T0R0  
 1101. *H. umbellatum* L.: I (23), IV (25,!); H, Cp; H2.5T3R3

#### ALISMATACEAE

1102. *Alisma gramineum* Gmel.: I (31), V (14); Hh, Cp; H6T0R4.5  
 1103. *A. lanceolatum* Wither: I (14), III (34); Hh, Eua; H6T0R4  
 1104. *A. plantago-aquatica* L.: I (31,!), III (34,29,!), IV-V (5,18,!); Hh, Cosm; H6T0R0  
 1105. *Sagittaria sagittifolia* L.: III-V (14,43,25,40,!); Hh,Eua (M);H6T3R4

#### BUTOMACEAE

1106. *Butomus umbellatus* L.: III-V (29,5,18,!); Hh, Eua (M); H6T3R0

#### HYDROCHARITACEAE

1107. *Hydrocharis morsus-ranae* L.: II-V (14,29,38,!); Hh, Eua; H6T3.5R.3.5

#### JUNCAGINACEAE

1108. *Triglochin maritima* L.: II-IV (14,12,34,!); H, Cosm; H4T0R4  
 1109. *T. palustris* L.: I-IV (31,12,14,5,!); H, Cp; H5T0R0

#### POTAMOGETONACEAE

1110. *Potamogeton acutifolius* Link.: III (14,39); Hh, E; H6T3R4  
 1111. *P. alpinus* Balb.: I (14,23); Hh, Cp; H6T2.5R2.5  
 1112. *P. crispus* L.: II-V (38,29,5,40,!); Hh, Cosm; H6T3.5R4  
 - f. *rotundifolius* (Fisch)Topa: V (14,39)  
 - f. *cornutus* Topa: IV (14,39)  
 1113. *P. x cymatodes* A. et G. (*crispus x perfoliatus*): II (14)  
 1114. *P. gramineus* L.: I, V (14,39,!); Hh, Cp; H6T2.5R4  
 - var. *lacustris* Fr.: V (14,39)  
 - var. *amphibius* Fr.: V (14,39)  
 - var. *myriophilus* (A. et G.)Soó: V (40)  
 - ssp. *heterophyllum* Fr.: V (14,39,40)  
 - var. *riparius* Fr.: V (14,39)  
 - var. *terrestris* Fr.: V (14,39)  
 1115. *P. lucens* L.: III (14,38), V (14,40); Hh, Eua (M); H6T0R4  
 1116. *P. natans* L.: I-V; Hh, Cosm; H6T2.5R4  
 - var. *prolixus* Koch: III (38), V (40)  
 1117. *P. nodosus* Poir. (*P. fluitans* Roth): V (14,40); Hh, Cp; H6T3.5R4  
 1118. *P. perfoliatus* L.: II-III (14,22,39,!); Hh, Cosm; H6T0R4  
 1119. *P. pusillus* L.: I (38), III-V (14,29,38); Hh, Cosm; H6T3R4

- var. *major* Mert. et Koch: I (38)
- var. *tenuissimus* Mert. et Koch: I, V (14,39,40)
- 1120. *P. trichoides* Cham. et Schlecht.: I (14,23); Hh, Eua (M); H6T3R4
- 1121. *Zannichellia palustris* L.: III (14,29,38), V (39); Hh, Cosm; H6T0R4
- var. *arcuata* (Schur)Topa: III (14)

#### NAJADACEAE

- 1122. *Najas minor* All.: III-V (14,38,40); Hh, Eua: H6T4.5R4.5
- f. *intermedia* (Balb.)Ces.: III (14)

#### TYPHACEAE

- 1123. *Typha angustifolia* L.: I (23,!); III-V (29,5,18,!); Hh, Cosm; H6T4R0
- f. *media* Kronf.: III (14)
- 1124. *T. latifolia* L.: I-V; Hh, Cosm; H6T3.5R0
- 1125. *T. laxmannii* Lep.: V (!); Hh, Eua; H5T4R0

#### SPARGANIACEAE

- 1126. *Sparganium emersum* Rehman (*S. simplex* Huds.): I (14), III (14,29), IV (25); Hh, Eua; H6T3R3.5
- 1127. *S. erectum* L. ssp. *erectum* (*S. ramosum* Huds.): I (!), V (40,18,!); Hh, Eua: H5.5T3.5R0
- 1128. *S. minimum* Hill.: IV (14); Hh, Cp; H6T3R3

#### LILIACEAE

- 1129. *Colchicum autumnale* L.: I (31), III-IV (14,29,43,!); G, E-M; H3.5T3R4
- 1130. *Veratrum album* L.: I-IV (6,30,22,29,25,!); G, Eua; H4T2.5R4
- ssp. *album* f. *semilobelianum* Nyár.: I (14)
- 1131. *Anthericum liliago* L.: III-IV (14,29,5); G, Ec-M; H1.5T3.5R3
- 1132. *A. ramosum* L.: I (14), III-IV (14,29,25); G, Ec-M; H2.5T3.5R4
- 1133. *Gagea lutea* (L.)Ker.-Gawl.: III-V (14,25,24,40); G, Eua; H3.5T0R3
- 1134. *G. minima* (L.)Ker.-Gawl.: III (14), IV (5), V (40); G, Eua (C); H3.5T3R4
- 1135. *G. pratensis* (Pers.)Dumort: III-V (14,25,18,40); G, Ec; H2T3R3
- 1136. *G. villosa* (M.B.)Duby (*G. arvensis* (pers.)Dumort): III-V (14,5,25,40); G, M; H2.5T4R0
- 1137. *Allium angulosum* L.: III (14); G, Eua (C); H4.5T0R4.5
- 1138. *A. atropurpureum* W. et K.: III-V (14,29,18); G, Pn-B; H2.5T3R4
- 1139. *A. flavescens* Bess. var. *ammophilum* (Heuff.)Zahariadi: III (34), IV (14); G, P-B; H1.5T4R4.5
- 1140. *A. oleraceum* L.: IV-V (14,25,40); G, Eua; H3T3R0
- 1141. *A. scorodoprasum* L.: IV-V (14,25,18,40); G, Ec-M; H2T3R4
- 1142. *A. vineale* L.: IV-V (14,40); G, Ec-M; H2T3R4
- 1143. *Lilium bulbiferum* L.: III (14,29); G, E (M); H3T2.5R3
- 1144. *L. martagon* L.: II-V (22,14,29,43,24,!); G, Eua; H3T0R4
- 1145. *Fritillaria meleagris* L.: I (31), II (14); G, E (M); H4T3.5R4

1146. *F. montana* Hoppe: I (14); V (14); G, B-Cauc; H3T3R4  
 1147. *Scilla bifolia* L.: III-V (29,5,40); G, E; H3.5T3R4  
 1148. *S. autumnalis* L.: V(!); G, M; H4T3R4.5  
 1149. *Ornithogalum boucheanum* (Kunth)Aschers.: III (14), V (40);G, P-B;H2.5T4R4  
 1150. *O. kochii* Parl. ssp. *kochii*: V (14,40); G, P-M; H2T4R4  
 1151. *O. pyramidale* L.: III (14), V (14,40); G, M; H2.5T4R4  
 1152. *O. umbellatum* L.: III (34), V (47,40); G, Ec-M; H0T3.5R4  
 1153. *Muscari botryoides* (L.)Mill.: III-IV (14,29,25); G, Ec-M; H2.5T3.5R4  
 1154. *M. comosus* (L.)Mill.: III-IV (14,29,18); G, Ec-M; H1.5T3.5R0  
 1155. *M. racemosus* (L.)Mill.: III (14), V (14,18,40); G, Ec-M; H1.5T4R5  
 1156. *M. tenuiflorum* Tausch: III-V (14,25,5); G, P-Pn; H2T4R4  
 1157. *Asparagus officinalis* L.: III-V (14,29,5,18,!); G, Eua (M);H1.5T4.5R3  
 1158. *Majanthemum bifolium* (L.)F.W. Schm.: I (32!), III-IV (14,29,5); G, Eua; H3T3R0  
 1159. *Polygonatum latifolium* (Jacq.)Desf.: III-V (14,24,5,18,!); G, P-Pn-B; H3T3.5R4  
 1160. *P. multiflorum* (L.)All.: III-V (29,5,25,24); G, E; H3T3R3  
 1161. *P. odoratum* (Mill.)Druce: I (14,!), III-V (14,29,25,24,!); G, Eua (M); H2T3R4  
 1162. *P. verticillatum* (L.)All.: I-II (14,30,!); G, E; H3T2.5R2.5  
 1163. *Streptopus amplexifolius* (L.)DC.: I (23); G, Cp; H4T2R2  
 1164. *Convallaria majalis* L.: IV-V (25,5,24); G, E; H2.5T3R3  
 1165. *Paris quadrifolia* L.: I (23,30,!), IV-V (5,27); H, Eua; H3.5T0R4

#### AMARYLLIDACEAE

1166. *Galanthus nivalis* L.: IV-V (5,24); G, E (M); H3.5T3R4  
 1167. *Leucojum aestivum* L.: V (40); G, Atl.-M; H4.5T4R4

#### DIOSCOREACEAE

1168. *Tamus communis* L.: IV (14,25); G, Atl-M; H3T3.5R4

#### IRIDACEAE

1169. *Gladiolus imbricatus* L.: I (6,!), III (29); G, Eua (C); H4T3R3  
 1170. *Crocus banaticus* Gay.: II (14), IV (14,25); G, D-B; H3T3R0  
 1171. *C. heuffelianus* Herb.: II (22), V (24); G, Carp-B; H3T1R2  
 1172. *Iris nyaradyana* Prod.: II (14); G, E; H3T2.5R3  
 1173. *I. pseudacorus* L.: III-V (14,29,25,18,!); G-Hh, E; H5.5T0R0  
 1174. *I. sibirica* L.: III, V (14,40); G, Eua (C); H4.5T3R4.5  
 1175. *I. spuria* L.: III (14); G, Pn-D; H4T3.5R5  
 1176. *I. variegata* L.: II (22,!), III-V (14); G, P-Pn-B; H2T3.5R4

#### JUNCACEAE

1177. *Juncus acutifolius* Ehrh.: I (14); G, E; H4.5T3R2  
 1178. *J. articulatus* L.: I (31,!), III-V (34,5,18); H, Cp; H5T2R0  
 1179. *J. atratus* Krick.: I (14,32,6), III (14,34); H, Eua; H4T3R4  
 1180. *J. bufonius* L.: I (23,!), III-V (47,!); Th, Cosm; H4.5T0R3  
 1181. *J. bulbosus* L. var. *uliginosus* Fries: I (14); H, E; H4.5T2.5R0

1182. *J. compressus* Jacq.: I (23), IV-V (14,18); G, Eua; H4T3R4  
 1183. *J. conglomeratus* L.: I-V; H, Eua; H4.5T3R3  
 1184. *J. effusus* L.: I-V; H. Cosm; H4.5T3R3  
 1185. *J. gerardi* Lois.: I (32), III (34,14), V (14); G, Cp; H4.5T3R5  
 1186. *J. inflexus* L.: I-II (23,12!), V (18,40); H, Eua (M); H4T4R4  
 1187. *J. subnodulosus* Schrank.: IV (14); Hh, E; H4.5T3.5R0  
 1188. *J. tenuis* Willd.: I-III (14,23,22,!); H, Adv; H3.5T3R4  
 1189. *J. thomassii* Ten.: I (14); H. D-B; H4T2.5R3  
 1190. *Luzula campestris* (L.)Lam. et DC.: I (6,!), IV-V (14,5,25,!); H, E (M); H3T0R3  
 1191. *L. luzuloides* (Lam.)Dandy et Willmott: I (23), II(22,!), IV (14,25,!); H, E;  
 H2.5T2.5R2  
 1192. *L. multiflora* (Ehrh.)Lej.: I (32); H, Cp; H3T2R2  
 1193. *L. pallescens* (Wahlbg.)Bess.: I (23); H, Eua; H3T2.5R3  
 1194. *L. pilosa* (L.)Willd.: II (14), IV (14,25); H, Eua; H2.5T2R0  
 1195. *L. silvatica* (Huds.)Gaud.: II (14); H. Ec; H3.5T2.5R2

#### CYPERACEAE

1196. *Scirpus sylvaticus* L.: I-V; Hh-G, Cp; H4.5T3R0  
 1197. *Eriophorum angustifolium* Honckeny: I (23,6,!); G, Cp; H4.5T3R3  
 1198. *E. latifolium* Hoppe: I-II (6,23,22,!); H, Eua; H5T0R4.5  
 1199. *Bolboschoenus maritimus* (L.)Palla: III-V (34,25,18,!); Hh. Cosm; H6T0R4.5  
 - f. *digynus* (Godr.)Jav.: III-V (14,5)  
 1200. *Schoenoplectus lacustris* (L.)Palla: II (22), IV (5,25,!); Hh-G. Cosm; H6T3R4  
 1201. *S. tabernaemontani* (Gmel.)Palla: III-V (14,34,5,40,!); G (Hh), Eua; H5T3R4  
 1202. *Elcocharis acicularis* (L.)R.Br.: V (14,40,!); Th, Cp; H5.5T0R0  
 1203. *E. carniolica* Koch: I (31); Th, Alp-Carp-B; H5T0R5  
 1204. *E. palustris* (L.)R.Br.: I-V; G-Hh. Cosm; H5T0R4  
 1205. *Cyperus fuscus* L.: III-V (14,40,!); Th, Eua (M); H6T3R4  
 - var. *virescens* (Hoffm.)Vahl.: III-V (14,40)  
 1206. *Blysmus compressus* (L.)Panz.: I (14,23); G, Eua; H4.5T3R4.5  
 1207. *Chlorocyperus glomeratus* (Torn.)Palla: IV-V (14,40); Hh, Eua (M); H5T3R4  
 1208. *C. glaber* (L.)Palla: V (40); Th, Eua (M); H5T3R4.5  
 1209. *Pycurus flavescens* (L.)Rchb.: III-V (14,40,!); Th. Cosm; H6T3R4  
 1210. *Dichostylis micheliana* (L.)Nees: V (40); Th, Eua (M); H4.5T4R4  
 1211. *Acorellus pannonicus* (Jacq.)Palla: IV (14); Th, Eua (C); H4.5T3R5  
 1212. *Carex acutiformis* Ehrh.: I (31,!), IV (5,25); Hh, Eua (M); H6T3R4  
 1213. *C. x alsatica* Zahn (flava x oederi): II (14)  
 1214. *C. atrata* L.: I (6); H, Cp; H3T1.5R3.5  
 1215. *C. buekii* Wimm.: I (14); Hh, P-Pn; H5T3R0  
 1216. *C. buxbaumi* Waahlbg.: I, III(14,23,32); G, Cosm; H4.5T0R0  
 1217. *C. brunnescens* (Pers.)Poir.: I (31); H, Cp; H4T1.5R2  
 1218. *C. brizoidis* Jusl.: IV-V (25,24); H-G. Ec; H3.5T3R2  
 1219. *C. appropinquata* Schumacher: I (31,14,23); Hh, Eua; H5T3R4  
 1220. *C. caespitosa* L.: I (14,30,31), II (12), III (14); Hh,Eua; H5T3R3

1221. *C. canescens* L.: I-II (14,31,!); H, Cp; H5T0R2  
 1222. *C. caryophyllca* Latour.: III-IV (29,5,33,25); G, Eua (M); H2T2.5R0  
 1223. *C. davalliana* Sm.: I (14,32); H, Ec; H3.5T2.5R3  
 1224. *C. diandra* Schrank.: I (14,31,32); G, Cp; H4T2R3  
 1225. *C. digitata* L.: IV (14,5,25); H, E; H3T3R3  
 1226. *C. dioica* L.: I (14,23); G, Cp; H4T2R0  
 1227. *C. distans* L.: I (23), III-IV (34,26,!); H, E; H4T3R4  
 1228. *C. disticha* Huds.: I (14,23); G-Hh, Eua; H5T3R4  
 1229. *C. divisa* Huds.: IV-V (14,5,40); G, Eua; H4T3.5R5  
 1230. *C. divulsa* Stokes.: IV-V (25,24); H, Eua; H2.5T3R0  
 1231. *C. elongata* L.: I (14,23); H, Eua; H5T2.5R4  
 1232. *C. elata* All.: I (14); Hh, E; H5T2.5R4  
 1233. *C. flava* L.: I-II (6,31,12,!); IV (5); H, Cp; H4.5T3R0  
 1234. *C. gracilis* Curtis: I-V; Hh-G, Eua; H5T3R0  
 1235. *C. hirta* L.: I-V; G, E (M); H0T3R0  
 1236. *C. hordeistichos* Vill.: III (14), V (40); H, Pn-P-M; H4T4R4  
 1237. *C. lasiocarpa* Ehrh.: III (14); Hh, Cp; H5T2.5R2.5  
 1238. *C. lepidocarpa* Tausch: I-II (14,23,12,6,!); H, E; H4.5T3R0  
 1239. *C. leporina* L.: I (6,23,31,!); V (27,40,!); H, Eua; H4T2.5R3  
 1240. *C. melanostachya* Willd.: V (18); Hh, Eua (C); H4T3R0  
 1241. *C. michelii* Host.: III-IV (14,34,25); G, Ec-P; H2T3R4  
 1242. *C. nigra* (L.)Reichard (*C. fusca* All.) ssp. *nigra*: I (31,23,6,!); G, Cp; H4T3R2  
 - ssp. *juncella* Fries.: I (31)  
 1243. *C. pairaei* F. Schultz: I, IV (14); H, Eua; H3T3R0  
 1244. *C. pallescens* L.: I (6,23,!); IV (25); H, Cp; H3.5T3R3  
 1245. *C. panicea* L.: I (14,6,32); H (G), Eua; H3.5T3R0  
 1246. *C. paniculata* Jusl.: I (31,32); Hh, Ec; H5T3R5  
 1247. *C. pendula* Huds.: I (31); H, At1-M; H4T2R3  
 1248. *C. pilosa* Scop.: IV (25); H, Eua; H2.5T3R3  
 1249. *C. praecox* Schreb.: IV-V (5,18); G-H, Eua; H2T3R3  
 1250. *C. pseudocyperus* L.: I (31), III (14); Hh, Cp; H6T3.5R3.5  
 1251. *C. remota* Grufb.: V (14,40); H, E; H4.5T3R3  
 1252. *C. riparia* Curt.: I-II (31,22,!); V (18,40,!); Hh, Eua (M); H5T4R4  
 1253. *C. rostrata* Stokes.: I-II (14,23,23,!); Hh, CP; H5T2R0  
 1254. *C. scrotina* Merat (*C. oederi* Auct.): II (14); H, Eua (M); H4.5T0R0  
 1255. *C. spicata* Huds.: II (40); H, Eua (M); H0T3R0  
 - var. *nemorosa* (Lumn.)Serb. et Nyár.: V (14)  
 1256. *C. stellulata* Good.: I (14,23,!); H, Cp; H5T2R1  
 1257. *C. stenophylla* Wahlbg.: IV V (14); G, Pn; H3T0R4.5  
 1258. *C. sylvatica* Huds.: IV V (5,25,40); H, E; H3.5T3R4  
 1259. *C. x schatzii* Kneucker (*lepidocarpa x oederi*): I (14)  
 1260. *C. tomentosa* L.: IV (25,40); G, Eua (M); H3T3R0  
 1261. *C. x toczensis* Simk. (*melanostachya x riparia*): V (14,40)  
 1262. *C. umbrosa* Host.: I (14); H, Ec; H3T3R3



1263. *C. vesicaria* L.: I (14,23,31,!); III-V (14,25,40,!); Hh, Cp; H6T3R4  
 1264. *C. vulpina* L.: I-V; Hh H. Eua (M); H4T3R4

POACEAE (GRAMINEAE)

1265. *Botriochloa ischaemum* (L.)Keng.: III-V (29,5,25,40,!); H. Eua (M); H1.5T5R3  
 1266. *Digitaria ischaemum* (Schreb.)Muhlbg.: V (14,40); Th, Cosm: H3T3.5R3  
 1267. *D. sanguinalis* (L.)Scop.: III-V (14,5,25,47,!); Th, Cosm; H1.5T0R4  
 1268. *Setaria glauca* (L.)P.Beauv.: III-V (18,47,!); Th, Cosm; H3T4R0  
 1269. *S. verticillata* (L.)P.Beauv.: III-V (14,5,25,18,!); Th, M; H2T4R0  
 1270. *S. viridis* (L.)P.Beauv.: III-V (5,25,18,47,!); Th, Eua; H2T3.5R0  
 1271. *Echinochloa crus-galli* (L.)P.Beauv.: III-V (25,27,18,!); TH, Cosm; H4T0R3  
 - f. *oryzoides* (Ard.)Fritsch: III (14), IV (43)  
 1272. *Tragus racemosus* (L.)All.: IV-V (14,40); TH, M; H0T0R4  
 1273. *Anthoxanthum odoratum* L.: I-V; H, Eua; H0T0R0  
 1274. *Typhoides arundinacea* (L.)Mnch. (*Phalaris arundinacea* L.): I-V; Hh-H. Cp; H5T3R0  
 1276. *Leersia oryzoides* (L.)Sw.: V (40); Hh, Cp; H5T3R0  
 - f. *patens* Wiesb.: III (14)  
 1276. *Alopecurus aequalis* Sobol.: IV (26); H, Cp; H5T3R5  
 1277. *A. geniculatus* L.: I (14,31), IV-V (14,5,43,18); H, E: H5T0R4  
 1278. *A. myosuroides* Huds.: III (14,29); Th, M; H3.5T3.5R4  
 1279. *A. pratensis* L.: I-V; H, Eua; H4T3R0  
 1280. *Phleum montanum* K. Koch: I (14), III-IV (14,6,25); H, Carp-B-Cauc-Anat; H1.5T4.5R4  
 1281. *P. phloides* (L.)Karsten: I (6,!); III-IV (34,5,!); H, Eua; H2T3R4  
 1282. *P. pratense* L.: I-V; H, Eua (M); H3.5T0R0  
 1283. *Crypsis aculeata* (L.)Ait.: V (18,40); Th, Eua; H3.5T4R4  
 1284. *Helcochloa alopecuroides* (Piller et Mitterp.)Host.: V (!); Th, Eua; H0T4R4.5  
 - f. *angustifolia* Beck: V (40)  
 1285. *H. schoenoides* (L.)Host.: III (14), V (14,40); Th, Eua; H0T4R4.5  
 1286. *Beckmannia cruciformis* (L.)Host.: III (34), V (14,!); H, Cp; H4.5T3R4  
 1287. *Cynodon dactylon* (L.)Pers.: III-V (5,25,18,!); G (H), Cosm: H2T3.5R0  
 1288. *Agrostis canina* L.: I (31,!), IV-V (25,40); H, Eua; H3.5T3R3  
 - var. *pudica* Doll.: I (14)  
 1289. *A. stolonifera* L. ssp. *stolonifera*: I-V; H, Cp; H4T0R0  
 - ssp. *gigantea* (Roth)Beldie var. *silvatica* (Host.)Beldie: V (40)  
 1290. *A. tenuis* Sibth.: I-V; H, Cp; H0T0R0  
 1291. *Apera spica-venti* (L.)P. Beauv.: IV (5,25); TH, Eua; H3.5T0R2.5  
 1292. *Calamagrostis arundinacea* (L.)Roth: I (30); H (G), Eua; H2.5T3R2  
 1293. *C. canescens* (Web.)Druc.: I (14,23,6); H, Eua; H5T3R3  
 1294. *C. epigeios* (L.)Roth: III-IV (34,25,5); H (G), Eua (M); H2T3R0  
 1295. *C. neglecta* (Ehrh.)Gaertn.: I (14,23,6,31); H, Cp; H4.5T2R3  
 - var. *fallax* Bancr.: I (14)  
 1296. *C. pseudophragmites* (Haller f.)Koeler: II (22), IV-V (25,40); H, Eua (C); H5T3R5

1297. *C. villosa* (Chaix) J.F. Gmel. var. *gracilescens* (Blytt.) A. et G.: I (14,23); H, Eua; H4T2.5R1.5
1298. *Milium effusum* L.: V (24); H, Cp; H3.5T3R3
1299. *Stipa capillata* L.: III-IV (4,5,25); H, Eua (C); H1T5R4
1300. *S. pulcherrima* K. Koch: III (4); H, Eua (M); H1T4R5
1301. *Phragmites australis* (Cav.) Trin. et Steud. (*Ph. communis* Trin.): I-V; Hh. Cosm: H5T0R4
- var. *flavescens* Custer: III-IV (14,40)
1302. *Sesleria heufleriana* Schur: IV (6); H, Carp (End); H2T3.5R4.5
1303. *Koeleria cristata* (L.) Pers. (*K. macrantha* (Ldb.) J.A. et J.H. Schult): I-V; H, Cp; H2T4R5
1304. *Melica nutans* L.: I (30), IV (5); H-G, Eua (M); H3T0R4
1305. *Holcus lanatus* L.: I-V; H, Eua; H3.5T3R0
1306. *Deschampsia caespitosa* (L.) P. Beauv.: I-V; H, Cosm: H4T0R0
1307. *D. flexuosa* (L.) Trin.: I-II (30,22,.); H, Cp: H2T0R1
1308. *Arrhenatherum elatius* (L.) J. et C. Presl.: II-V (22,28,25,5,40,.); H, E (M); H3T3R4
1309. *Avena fatua* L. ssp. *fatua*: III-V (14,40,.); Th, Eua (M); H3.5T0R4
- var. *glabrata* Peterm.: V (14)
1310. *Helictotrichon pubescens* (Huds.) Pilger: IV (14,5); H, Eua; H3.5T2.5R4
1311. *H. alpinum* (Smith) Heward: I (14), III-IV (14,5); H, Carp: H2T2R3
1312. *H. pratense* (L.) Pilger: I (14,6); H, Eua; H2.5T3R0
1313. *Sieglingia decumbens* (L.) Bernh.: I (6,1), III (34); H, E; H0T3R2
1314. *Bromus arvensis* L.: II-V (22,34,25,40,.); Th-TH, Eua (M); H2.5T3R0
1315. *B. commutatus* Schrad.: IV-V (5,25,18,40); Th, E; H0T3R0
1316. *B. inermis* Leyss.: III-V (34,5,25,40,.); H, Eua (C); H2.5T4R4
1317. *B. japonicus* Thunb.: I (!); Th, Eua (M); H1.5T3.5R4
- var. *transsilvanicus* (Auersw.) Hay: I (14), V (40)
- var. *vestitus* (Schrad.) Stapf.: V (40)
1318. *B. mollis* L.: II-V (22,5,18,47,.); Th, Eua; H0T3R0
- var. *mollis* f. *nanus* (Weig.) Nyár.: III (14)
- var. *effusus* Schur: III (14)
1319. *B. ramosus* Huds.: II (22); H, Ec: H3T3R3
1320. *B. secalinus* L.: I, III (14), V (40); Th, Eua (M); H0T0R0
- f. *submuticus* (Rehb.) Nyár.: III (14)
1321. *B. sterilis* L.: IV-V (25,18,.); Th, Eua (M); H2T4R4
1322. *Cynosurus cristatus* L.: I-V; H, E; H3T3R3
1323. *Brachypodium silvaticum* (Huds.) P. Beauv.: III-V (25,40,.) H, Eua (M); H3T3R4
1324. *Eragrostis chilianensis* (All.) Link.: IV-V (14,6,40); Th, Eua; H2T4R4.5
1325. *E. poioides* P. Beauv.: V (18,47,.); Th, Cosm: H3T4R0
1326. *Molinia coerulea* (L.) Mch. ssp. *coerulea*: I (6,31,.); H, Eua; H4T3R0
- ssp. *arundinacea* (Schr.) Paul: I (14)
1327. *Dactylis glomerata* L.: I-V; H, Eua (M); H3T0R4
- var. *pendula* Dumort: III (14)
1328. *Poa annua* L.: I-V; Th-TH, Cosm: H3.5T0R0

1329. *P. bulbosa* L.: IV-V (25,18,47); G-H, Eua (C); H2T3.5R4  
1330. *P. compressa* L.: II (22,!); IV (5,25); H, E: H1.5T3R0  
1331. *P. nemoralis* L.: II-V (22,5,25,40,!); H, Eua: H3T3R0  
1332. *P. palustris* L.: I (31,6,!); IV-V (25,40); H, Cp; H5T3R4  
1333. *P. pratensis* L. ssp. *pratensis*: I-V; H, Cp; H3T0R0  
- ssp. *angustifolia* (L.)Hay (*P. angustifolia* L.): II-IV (22,33,25); H, Eua: H2T3R0  
- var. *setacea* (Hoffm.)Doll: I (14)  
1334. *P. stiriaca* Fritsch et Hay: I (14); H, E: H1.5T2.5R4  
1335. *P. trivialis* L.: I-V; H, Eua: H4T0R0  
1336. *Briza media* L.: I-V; H, Eua: H0T3R0  
1337. *Catabrosa aquatica* (L.)P.Beauv.: I-II (22,!); H, Cp; H5T2.5R4  
1338. *Glyceria fluitans* (L.)R.Br.: I-V; Hh-H, Cosm; H5T3R0  
1339. *G. maxima* (Hartm.)Holmberg: I-V; Hh-H, Cp; H5T3R4  
1340. *G. nemoralis* (Uechtr.)Uechtr. et Koern.: IV (14); Hh, Ec-Sarm: H5T3R3  
1341. *G. plicata* Fries.: I-II (23,31,22,!); Hh, Eua: H6T3R4.5  
1342. *Puccinellia distans* (L.)Parl.: III-V (34,5,!); H, Eua (C); H3.5T0R5  
1343. *P. limosa* (Schur)Holmberg: III-IV (14); H, Eua (C); H3.5T0R5  
1344. *Vulpia myuros* (L.)Gmel.: IV-V (14,25,27); Th, Eua (M): H1T3.5R2  
1345. *Festuca arundinacea* Schreb.: II (22), V (40); H, Ec; H4T3R4  
- var. *mediteranea* (Hack.)A. et G. f. *baltica* A. et G.: V (14);  
- var. *orientalis* (Kern.)A. et G.: II (14)  
1346. *F. drymeia* Mert. et Koch: II (14,22,!); IV (14,25,43); G-H, Carp-B; H4T2R3  
1347. *F. gigantea* (L.)Vill.: II (22), V (24,40); H, Eua: H4T3R2.5  
- f. *nemoralis* A. et G.: IV (14,43)  
1348. *F. pratensis* Huds.: I-V; H, Eua; H3.5T0R0  
- var. *subspicata* (G.F.W. Meyer)A. et G.: II (14)  
1349. *F. pseudovina* Hack.: III-V (34,5,!); H, Eua (C); H2T4R4  
1350. *F. rubra* L.: I-V; H, Cp; H3T0R0  
1351. *F. rupicola* Heuff. ssp. *rupicola*: II-V (22,33,5,25,40,!); H, Eua (C); H1.5T4R4  
- var. *rupicola* f. *hirsuta* Host.: III (14), V (40)  
- var. *sulcataeformis* Mgf-Dbg.: II (14)  
1352. *Pholurus pannonicus* (Host.)Trin.: V (14,40); Th, P-Pn-B: H0T4R4.5  
1353. *Lolium multiflorum* Lam.: III-V (14,25,40); Th-TH, Adv (M); H2.5T4R0  
1354. *L. perenne* L.: I-V; H, Eua (M); H2.5T4R4.5  
- var. *tenue* (L.)Sm.: III (14)  
1355. *L. remotum* Schrank.: I (14); Th, Adv; H2T3R4  
1356. *L. temulentum* L.: IV (14,5); Th-TH, Adv; H2.5T4R4.5  
1357. *Hordelymus europaeus* (L.)Jessen: II (22); H, E: H3.5T3R3  
1358. *Hordeum marinum* Huds.: V (14,18); Th, Atl-M: H2T4R3  
- ssp. *gussoncanum* (Parl.)A. et G.: III (14), IV (14,25), V (14,!); Th, Eua; H2T4R4.5  
- f. *hirtellum* Degen: V (40)  
1359. *H. murinum* L.: III-V (5,25,18,!); Th, Eua (M); H2.5T4R0  
1360. *Agropyron caninum* (L.)P.Beauv.: IV-V (25,40); H, Cp; H3.5T0R4  
- var. *pauciflorum* (Schur)Volkart: V (40)

1361. *A. intermedium* (Host.)P.Beauv.: III-V (5,18,!); G, Eua; H2T4R4  
 1362. *A. pectiniforme* Roem. et Schult.: V (40,!); H, Eua; H2T4R4.5  
 - f. *ciliatum* Degen: V (40)  
 1363. *A. repens* (L.)P.Beauv.: I-V; G, Eua; H0T0R0  
 - var. *glaucum* (Host.)Doll: V (40)  
 - var. *aristatum* (Neilr.)Hay: V (40)  
 1364. *Nardus stricta* L.: I (6,31,!), IV (5); H, E; H0T0R1.5

#### ORCHIDACEAE

1365. *Orchis cordigera* Fries.: I-II (14,!); G, Alp-Carp-B; H4.5T2R2  
 - var. *cordigera* f. *macrobracteata* Schur: II (14)  
 - var. *siculorum* (Soó)Pauca et Beldie: I-II (14)  
 1366. *O. laxiflora* Lam.: III-V (5,!); G, Eua (M); H4T3R0  
 - ssp. *elegans* (Heuff.)Soó: III-V (34,29,5,!);  
 - var. *javorkae* Soó: III (14)  
 1367. *O. incarnata* L.: I (14,32,!), III-IV (14,!); G, Eua (M); H4.5T0R4  
 1368. *O. maculata* L. ssp. *maculata*: I (6,31,!), IV (25,!); G, Eua (M); H0T0R0  
 - var. *transsilvanica* (Schur)Doin: I (14,!);  
 - ssp. *clodes* (Gris.)Camus var. *schurii* (Kinge)Pauca et Beldie: I (14,42)  
 - ssp. *fuchsii* (Druce)Christens f. *karpati* Borsos: I (14)  
 1369. *O. militaris* L.: III-IV (14); G, Eua; H3T3R4  
 1370. *O. morio* L.: III-IV (34,29,5,!); G, Ec; H2.5T3R4  
 1371. *O. sambucina* L.: II (14,22), IV (14); G, Ec; H3T2R3  
 1372. *Traunsteinera globosa* (L.)Spreng.: II (22); G, Ec; H3T2R4.5  
 1373. *Gymnadenia conopsea* (L.)R.Br.: I (6,!), III-V (14,6); G, Eua; H4T0R4.5  
 1374. *Platanthera bifolia* (L.)L.C.Rich.: I (6,23,!), III-V (29,5,25,!); G, Eua (M);  
 H3.5T0R3  
 1376. *P. chlorantha* (Cust.)Rchb.: I, V (14); G, Eua (M); H3.5T3R3  
 1376. *Listera ovata* (L.)R.Br.: I (32), IV (5), V (27); G, Eua (M); H3.5T0R4  
 - f. *multinervia* (Peterm.)Hegi: III (14)  
 1377. *Neottia nidus-avis* (L.)L.C.Rich.: IV-V (25,5,40); G, Eua (M); H3.5T3R3  
 1378. *Cephalanthera longifolia* (Huds.)Fritsch.: II (22,14); G, E; H2.5T3R4  
 1379. *Epipactis helleborine* (L.)Cr.: III-V (14,25,24,40,!); G, Eua; H3T3R3  
 1380. *E. palustris* (L.)Cr.: I-II (14,6,23,!); G, Eua; H4.5T3R4.5

#### ARACEAE

1381. *Acorus calamus* L.: IV-V (14); Hh (G), Adv; H6T3.5R4  
 1382. *Calla palustris* L.: I-II (14,22); Hh, Cp; H5T2.5R3.5  
 1383. *Arum maculatum* L.: IV-V (5,18); G, Ec; H3.5T3.5R4  
 - var. *alpinum* (Schott et Kotschy)Topa et Beldie: IV-V (14,40)

#### LEMNACEAE

1384. *Lemma gibba* L.: III-V (14,25,40); Hh, Cosm; H6T3.5R4  
 1385. *L. minor* L.: I-V; Hh, Cosm; H6T0R0

1386. *L. trisulca* L.: III-V (25,38,40,!); Hh, Cosm; H6T0R4

1387. *Spirodela polyrrhiza* (L.)Schleichen: I (31), V (38,!); Hh, Cosm; H6T3.5R0

### Study of the ecological preferences

Analysing the humidity (H) needs of the plant species from the Mureş Valley, we see that most of the plants belong to the mesophytic category (H3-H3.5). Forming 32.8% of the total flora list, they are here favoured by the moderate humidity both of the soil and from the atmosphere. The considerable representation (29.3%) of the mesohygrophytes (H4-H4.5), hygrophytes (H5-H5.5) and hydrophytes (H6) may be explained by the existence of several marshes, lakes and oxbow lakes of the Mureş. There are also xeromesophilous species (H2-H2.5) and xerophilous (H1-H1.5) ones in the flora, comprising 28.7% and 4.9%, respectively, which inhabit some rocky regions and sunny slopes characterized by water deficit.

Concerning the temperature factor (T) the richness of the micromesothermic species (T3-T3.5) holding for 56.6% can be noticed as the longest part of the waterway of Mureş is situated in a moderate climate with an annual mean temperature of about 9-10 ° Celsius. The microthermic species (T2-T2.5) are also well represented (10.9%), being favoured by the mountainous relief of the straits and particularly by the specific climate of the Depression of Giurgeu (Gheorgheni) which is one of the coldest poles of Transylvania with an annual mean temperature of only 4-5 ° Celsius. Both mesothermophilous (T4-T4.5) and thermophilous (T5) species are present (16.0%); their occurrence is connected to south-facing slopes from the pass Toplița- Deda, the Transylvanian Plateau and the Mureş Corridor.

In soil reaction (R), we notice the abundance of the weaker acid-neutrophilous (R4-R4.5), euryonic (R0) and acid-neutrophilous (R3-R3.5) species, in percentages: 40.3%, 28.5% and 20.6%, respectively. The acidophilous species (R1-R1.5) occur with a 6.5 % frequency, while the neutro-basiphilous ones (R5) represent a portion of 3.9 %. The above distribution reflects sufficiently well the preponderance of alluvial deposits and soils from the river and also the existence of the following soil types: brown podsollic, clayey podsoled, acid brown, peat and salty soils.

#### *Life form composition*

The analysis of life forms shows some characteristics of the biotopes and the influences exerted on them by different factors. The very high percentage of hemicryptophytes (42.7 %) is closely connected to the large surfaces of lawn and the presence of a grass layer in riverside coppices and woods. The therophytes (30.7 %) are the manifestation of the warmer climate from the center of Transylvania and the plain of Mureş, plus a pronounced anthropogenic influence on these areas. The helohydophytes (7.2%) point out the lakes and the wet meadows of the riverside. The ratio between the number of therophytes and that of hemicryptophytes gives the anthropisation (altitude) coefficient

( $Ka=T/H+Ch*100$ ) (Pop & Drăgulescu 1983), by means of which it is possible to determine the level of degradation for an area. For the Mureş Valley its value is 72, which corresponds to a territory with considerable landscape disturbance.

#### *Analysis of the floristic elements*

The flora of the area is characterized by the predominance of eurasian (45.2%), European (13.1%), circumpolar (9.1%) and Central-European (8.3%) elements, respectively. The main components of the mesophilous and mesohygrophilous lawns, and of the riverside coppices and woods, are the temperate-continental climate and the geographical position of the region. The meridional elements (Mediterranean, Submediterranean, Mediterranean-Pontic, Pontic, Ponto-Pannonic and Balcanic) altogether represent 10.1%. They indicate some biotopes with a warmer microclimate from the Transylvanian Plateau and the neighborhood of the lower basin of Mureş upon the Pannonian province. The Daco-Balcanic plus Carpatho-Balcanic (2.1%) and endemic or Carpathic (0.8%) elements provide a peculiar color to the valley.

#### *The vegetation*

Relying on our phytocoenologic relevés, we identified 174 associations with 40 subassociations and facies. Until our research in the area, only 81 have been previously mentioned.

#### *Associations*

- ASPLENIETEA RUPESTRIS H. Meier et Br.-Bl. 1934  
ASPLENIETALIA SEPTENTRIONALIS Oberd. et al. 1967  
*Asplenion septentrionalis* Gams 1927  
1. *Asplenio trichomanes-Poaetum nemoralis* Boşcaiu (1970)1971: II (!)  
2. *Sempervivietum heuffelii* E.Schneider-B. 1969: II (!)  
3. *Hypno-Polypodietum vulgare* Jko. et Pec. 1963: IV (43)
- LEMNETEA W. Koch et Tx. 1954  
LEMNETALIA W. Koch et Tx. 1954  
*Lemnion minoris* W. Koch et Tx. 1954  
4. *Lemnetum minoris* (Oberd. 1957)Muller et Gors 1960: I-V  
5. *Spirodeletum polyrrhizae* W. Koch 1954: V (!)  
6. *Lemno-Salvinietum natantis* Miyawaki et Tx. 1960: V (!)  
7. *Salvinio-Spirodeletum polyrrhizae* Slavnic 1956: V (!)  
*Utricularion vulgaris* Pass. 1964  
8. *Lemno-Utricularietum* Soó 1928: III (!)  
- *lemnetosum trisulcae* (Kárpáti 1963)Soó 1964: III (!)  
- *ceratophylletosum demersi* Soó (1957)1964: III (!)  
HYDROCHARIETALIA Rubel 1933  
*Hydrocharition* Rubel 1933

9. Ceratophyllo-Hydrocharitum I. Pop 1962: III, V (!)  
*Ceratophyllion* Den Hartog et Segal 1964
10. Ceratophylletum demersi (Soó 1927)Hild 1956: III (!)  
 POTAMETEA Tx. et Prsg. 1942  
 POTAMETALIA W. Koch 1926  
*Ranunculion aquatilis* Pass. 1964
11. Ranunculium (Batrachium) trichophylli Soó (1927)1971: V (!)  
*Potamion* W. Koch 1926 emend. Oberd. 1957
12. Myriophyllo-Potametum Soó 1934: V (!)
13. Potametum crispum Soó 1927: II-III (!), IV (32a)  
 - potametum pusilli Soó (1927)1973: V (!)  
*Nymphaeion* Oberd. 1957 emend. Neuhausl 1959
14. Nymphaeum albo-lutcae Nowinski 1928: III, V (!)  
 - nymphaeum V. Kárpáti 1963: V (!)  
 - nymphaeum Soó (1957)1964: III (!)
15. Polygonetum natantis Soó 1927: III, V (!)
16. Potametum natantis Soó 1927, Eggler 1933: III, V (!)
17. Nymphaeum peltatae (Allorge 1922) Oberd. et Muller 1960: V (!)
18. Trapetum natantis Muller et Gors 1960: IV (26,43), V (!)  
 PHRAGMITETEA Tx. et Prsg. 1942  
 PHRAGMITETALIA W. Koch 1926 emend. Pign. 1953  
*Phragmion australis (communis)* W. Koch 1926 emend. Soó 1947
19. Scripo-Phragmitetum W. Koch 1926: I-V  
 - phragmitetosum Soó 1957: IV V (25,43,!)  
 - butomosum Paun (1964)1967: III (!)  
 - hydrocharitosum I. Pop 1962: III, V (!)  
 - solanetosum dulcamarae Krausch 1965: V (I)
20. Typhaetum angustifolium (All. 1922) Pign. 1943: I, III, V (I)
21. Typhaetum latifolium Soó 1927: I-III, V (!)
22. Typhaetum laxmannii (Ubrizsy 1961) Nedelcu 1968: V (!)
23. Schoenoplectetum lacustris Eggler 1933: I, V (!)
24. Glycerietum maximae Hueck 1931: I-V
25. Oenanthetum aquaticae Soó 1927, Eggler 1933: III, V (!)  
*Bolboschoenion maritimi* Soó (1945)1947
26. Bolboschoenion maritimi Soó (1927)1957: IV (6a,32a,25,43), V (!)  
 - schoenoplectetosum tabernaemontani Soó 1957: V (!)
27. Schoenoplectetum tabernaemontani Soó (1927)1949: V (I)
28. Elcocharietum palustris Schennikow 1919: Soó 1933: I, III (!)  
 NASTURTIO-GLYCERIETALIA Pign. 1953  
*Glycerio Sparganion* Br.-Bl. et Sising ex Boer 1942
29. Sparganio-Glycerietum fluitantis Br.-Bl. 1925: IV (25,43), V (I)
30. Glycerietum plicatae Oberd. (1952)1957: I (!)
31. Alismato-Elcocharietum Máthé et Kovács 1967: III, V (I)  
*Phalarido Glycerion* Pass. 1964

32. *Equisetum fluviatilis* (limosi) Soó (1927)1947: I (31)  
 33. *Leersium oryzoides* Krause 1955 cm. Pass.1957: I (49)  
 MAGNOCARICETALIA Pign.1953  
*Magnocaricion elatae* W. Koch 1926  
 34. *Caricetum rostratae* Rubel 1912: I (31,!)  
 35. *Caricetum paniculatae* Wangerin 1926, Soó 1969: I (31,!)  
 36. *Caricetum appropinquatae* (W. Koch 1926) Tx.1947: I (31)  
 37. *Carici-Menyanthetum* Soó (1938)1955: I (32), II (!)  
 38. *Caricetum gracilis* Almquist 1929; Tx. 1937: I (31,!), II (12)  
 39. *Caricetum acutiformis* Suer 1937: I (31,!), III (4), IV (6a)  
 40. *Caricetum ripariae* Soó 1928: I (31,!)  
 41. *Caricetum vesicariae* Br.-Bl. et Denis 1926; Zólyomi 1931: I (31,!), IV-V (25,43,!)  
 42. *Caricetum vulpinac* Soó 1927: I (31), IV (6a)  
 43. *Poetum palustris* Resmeriță et Rațiu 1974: I (31)  
 44. *Typhoidetum arundinaceae* Egger 1933: I-III (31,4,!), IV (32a), V (!)  
 ISOETO-NANOJUNCETEA Br.-Bl. et Tx. 1943  
 NANOCYPERETALIA Klika 1935  
*Nanocyperion flavescens* W. Koch 1926  
 45. *Puccetum* (*Cyperetum*) *flavescens-fusci* W. Koch 1926 cm. Philippi 1968: V(!)  
 46. *Cypero-Juncetum* Soó et Csűrös 1944: III (9)  
 47. *Juncetum bufonii* Morariu 1956; Philippi 1968: I, III, V (!)  
*Verbenion supinae* Slavino 1951  
 48. *Lythreto-Pulicarietum vulgaris* Timár 1954: V (!)  
 SCHEUCHZERIO-CARICETEA NIGRAE (FUSCAE) Nordh.1936  
 SCHEUCHZERIO-CARICETALIA NIGRAE (FUSCAE) (WKoch1926)Gors et Muller ex  
 Oberd.1967  
*Caricion lasiocarpae* Van den Bergen 1949  
 49. *Caricetum diandrae* (Jon.1932)Oberd.1957: I (32)  
*Caricion canescenti nigrae (fuscae)* (W. Koch 1926)Nrdh. 1936  
 50. *Carici-Agrostietum caninae* Tx. 1937: I (32)  
 51. *Caricetum nigrae (fuscae)* Br.-Bl.1915; W. Koch 1928: I (32,!)  
 52. *Carici stellulatae (echinatae)-Sphagnetum* Soó (1934)1954: I (32,!)  
 53. *Caricetum stellulatae (echinatae)* Csűrös 1956: III (!)  
 TOFIELDIETALIA Prsg. apud Oberd. 1949  
*Eriophorion latifolii* Br.-Bl. et Tx. 1943  
 54. *Carici flavae-Eriophoretum* Soó 1944: I-II (32,12,!)  
 55. *Valeriano-Caricetum flavae* Pawl., Pawlowska et Zazycki 1960: I (32)  
 MOLINIO-ARRHENATHERETEA Tx. 1937  
 CARICETALIA DAVALLIANAE Br.-Bl.1949  
*Caricion davallianae* Klika 1934  
 56. *Caricetum davallianae* W. Koch 1928: I (49)  
 MOLINIETALIA W. Koch 1926  
*Agrostion stoloniferae (albae)* Soó (1933)1971  
 57. *Agrostidetum stoloniferae* (Ujvárosi 1941) Burduja et all.1956: I-V



- elcocharctosum Soó 1964: III (!)
- 58. Poetum pratensis Rav., Cazac. et Turenschi 1956: III (!), IV-V (25,43,!)
  - lolietosum perennis Grigore 1971: V (!)
- 59. Alopecuretum pratensis Nowinski 1928: IV (6a)
- 60. Agrostideto-Festucetum pratensis Soó 1949: III (!), IV-V (6a,11a,32a,!)
  - 61. Lolietum perennis Safta 1943: III, V (!)
  - 62. Lythro-Calamagrostidctum epigei I.Pop 1968: IV (!)
- Molinion coeruleae* W. Koch 1926
- 63. Molinietum coeruleae (All.1922)W. Koch 1926: I (6,!)
  - caricetosum nigrae (fuscae) Borza et. Fl.Raǎiu 1970: I (6,!)
- 64. Junco-Molinietum Prsg.1910: I (6,!)
  - nardetosum strictae (Jon.1933) Kovács 1956: I (6)
- Calthion palustris* Tx. 1937
- 65. Calthactum lactae Krajina 1933: I (!)
- 66. Scirpetum sylvatici Schwick.1944: I-V
- 67. Cirsietum cani Tx. 1951: I, III (!)
- 68. Trollio-Cirsietum (Kuhn 1937) Oberd. 1957: I (!)
- Filipendulo-Petasition* Br.-Bl. 1947
- 69. Petasitetum hybridi (Dost. 1933) Soó 1940: II (!)
- 70. Filipendulo-Geranicetum palustris W. Koch 1926: I (!)
- 71. Filipenduletum ulmariae W. Koch 1926: III-IV (!)
- 72. Chacrophylo-Equisetctum palustre Vicol et Stoicovici 1977: I-II (!)
- ARRHENATHERETALIA Pawl. 1928
- Arrhenatherion elatioris* (Br.-Bl. 1925) W. Koch 1926
- 73. Arrhenatheretum elatioris (Br.-Bl. 1919 s.l.) Scherrer 1925; Soó 1969: III (28,!), IV (6a), V (11a)
  - holcetosum Csúrös 1970: III (11,28)
  - trisetosum flavescens Horvatic 1930: III (11,28)
  - festucetosum rupicolae (sulcatae) Egglar 1958: III (28)
  - pastinacetosum comb. nova (Pastinaco-Arrhenatheretum elatioris) (Knapp 1954) Pass. 1964:II-III (!)
  - geranicetosum pratensis subass. nova:II-III (!)
- 74. Poaeto-Festucetum pratensis Soó 1949: III (28,!)
  - Cynosurion cristati* Br.-Bl. et Tx. 1943
  - 75. Anthoxantho-Agrostictum tenuis Sillinger 1933: Jurko 1969: IV (!)
  - 76. Agrostideto-Festucetum rupicolae (sulcatae) Cs.-Káptalan (1962)1964: III-IV (28,25,43,!)
    - 77. Agrostideto-Danthonietum Soó 1947: III (28)
    - 78. Agrosti-Cynosuretum Resmerita 1963: II-III (28.I)
    - 79. Agrosti-Festucetum rubrae Horv. (1951)1952: I-II (!)
    - 80. Lolio-Cynosuretum Tx.1937: IV (6a, 43)
- DESCHAMPSIETALIA CAESPITOSAE Horvatic 1956
- Alopecurion pratensis* Soó 1938; Pass.1946
- 81. Festucetum pratensis Soó 1938: III-IV (28,!)

- Deschampsion caespitosae* (Horvatic 1930) Soó 1971
82. Agrostideto-Deschampsietum caespitosae Ujvárosi 1947: I-II (!)  
 - caricosum nigrae (fuscae) Stoicovici 1977: I (!)  
 PUCCINELLIO-SALICORNIETEA Topa 1939  
 SALICORNIETALIA Br.-Bl. (1928) 1933  
*Thero-Salicornion* Br.-Bl. (1930)1933. Pign. 1933
83. Salicornietum europaeae Wendelbg. 1953: III (!)  
 PUCCINELLIETALIA Soó 1940  
*Puccinellion limosae* (Klika 1937) Wendelbg. 1943, 1950
84. Staticeto-Artemisietum monogynae Topa 1939: III, V (!)  
 85. Hordeetum hystricis (Soó 1933) Wendelbg. 1943: V (!)  
*Puccinellion peisonis* (Wendelbg. 1943) Soó 1957
86. Puccinellietum distantis Soó 1937, Knapp 1948: III, V(!)  
*Juncion gerardii* Wendelbg. 1943
87. Juncetum gerardii (Warming 1906) Nordh. 1923; Wenzl 1934: III (4!), V(!)  
 88. Agrostio-Caricetum distantis (Rapaics 1927)Soó 1930: III(!), IV (6a), V (11a)  
*Festucion pseudovinae* Soó 1933
89. Artemisio-Festucetum pseudovinae (Magyar 1928) Soó (1933)1945: V (!)  
 - puccinellietosum Soó 1964: V (!)  
 - limonietosum Bodrogek. 1962: V (!)
90. Achilleo-Festucetum pseudovinae (Magyar 1928) Soó (1933)1945: V IV (6a), V (11a,!)  
 - cynodontetosum Borza 1959; Bodrogek. 1965: V (11a,!)  
*Beckmannion cruciformis* Soó 1933
91. Agrostio-Beckmannietum (Rapaics 1916) Soó 1933: V (!)  
 FESTUCO-BROMETEA Br.-Bl. et Tx. 1943  
 BROMETALIA ERECTI (Koch 1926 n.n.) Br.-Bl. 1936  
*Bromion erecti* (Koch 1926 n.n.) Br.-Bl. 1936 s.str.
92. Brometum erecti Pázmány 1963: III (33)  
*Cirsio-Brachypodion* Hadac et Klika 1944 emend. Krausch 1961
93. Cariceto humilis-Brachypodietum pinnati Soó(1942)1947: III (4)  
 - globularietosum Borza et Lupşa 1962: III (4)  
 - salvietosum transsilvanicae Borza 1959: III (4)  
*Festucion rupicolae (sulcatae)* Soó (1929 n.n.)1940 corr. Soó 1964
94. Cynodonto-Poetum angustifoliae (Rapaics 1926) Soó 1957: III (28!), V (11a)  
 95. Festucetum rupicolae Burduja et all. 1956: II-III (28!), V (11a)  
 96. Festuceto-Botriochloetum ischaemi Resmeriǎ 1965: III-IV (28!), V (11a)  
 SECALIETEA Br.-Bl. 1931  
 APERETALIA R. et J. Tx. 1960  
*Aphanion* J. et R. Tx. 1960
97. Echio-Rumicetum acetosellae Soran 1962: III (!)  
 SECALIETALIA Br.-Bl. 1931 emend. J. et R. Tx. 1960  
*Caucalidion platycarpus* Tx. 1950 corr. Soó 1971
98. Consolido-Polygonetum convolvulus (Morariu 1943) Morariu 1967: III(4!), V (47)

- Trifolio Medicaginion sativae* Balázs 1944 emend. Soó 1959
99. Plantagini lanceolatae-Medicaginetum (Balázs 1944) Soó et Timár 1964: V(47)  
- verbenetosum officinale Timár 1953: V (!)
- ERAGROSTETALIA J. Tx. 1961 emend. Soó 1968
- Consolido Eragrostion pooidis* Soó et Timár 1957
100. Amarantho-Chenopodietum albi (Morariu 1943) Soó (1947)1953: II (!), III (4,!), V (47,!)
- Tribulo Eragrostion pooidis* Soó et Timár 1957
101. Hibisco-Eragrostetum poaeoidis Soó et Timár (1951)1957: V (!)
102. Digitario-Portulacatum (Felföldy 1942) Timár et Bodrogek. (1943)1955: V (!)
- CHENOPODIETEA Br.-Bl. 1951 emend. Lohm., J. et R. Tx. 1961
- SISYMBRIETALIA J. Tx. 1961
- Sisymbrium officinalis* Tx., Lohm. et Prsg. 1950
103. Hordeetum murini Libbert 1932 em. Pass. 1964: III (!)
104. Atriplicetum nitentis Knapp 1945: III, V (!)
105. Atriplicetum tataricae (Prodan 1923) Borza 1926: III (!)
106. Polygono avicularis-Amarantheum crispum Vicol. Schneider-B. et Täuber 1971: III,IV (!)
107. Malvetum neglectae Aichinger 1933 em. ass. 1966: I, III-IV (!)
108. Descurainetum sophiae Krech 1935 corr. Oberd. 1970: III (!)
109. Malvetum pusillae Morariu 1943: III (!)
110. Xanthio spinosae-Amarantheum Morariu 1943: III (!)
- Convolvulo arvensi Agropyron repentis* Gors 1966
111. Agropyretum repentis Felföldy 1942: III-IV (!)  
- convolvuletosum arvensis Grigore 1971: III (!)
- Veronico Euphorbion* Siss. 1942
112. Galeopsidetum speciosae Krusem. et Vlieg. 1939: III (!)
- ONOPORDETALIA Br.-Bl. et Tx. 1943 emend. Gors 1966
- Dauco Melilotum* Gors 1966
113. Echio-Melilotetum albi Tx. 1942: III-IV (4,!)
- Onopordion acanthi* Br.-Bl. 1926 s.str.
114. Onopordetum acanthi Br.-Bl. (1923)1936: III (4,!)
115. Carductum acanthoidis (Allorge 1922) Morariu 1939: II-III (!)
- POLYGONO-CHENOPODIETALIA (Tx. et Lohm. 1950) J. Tx. 1961
- Panico-Setarion* Siss. 1946
116. Setario-Galinsogetum Tx. 1950: III-V (!)
- ARTEMISIETEA Lohm., Prsg. et Tx. 1950
- ARTEMISIETALIA Lohm. et Tx. 1947
- Arction lappae* Tx. 1937 emend. Siss. 1946
117. Artemisietum annuae Morariu 1943 emend. Dihoru 1970: III (!)
118. Tanaceto-Artemisietum vulgaris Br.-Bl. (1931)1949: I, III, V (4,!)  
- pastinacetosum Szabó 1971: III (!)
119. Coniectum maculati I. Pop 1968: III, V (!)

120. Sambucetum ebuli (Kaiser 1926) Felföldy 1942: III-IV (4,25,!)  
 121. Arctio-Ballotetum nigrae (Felföldy 1942) Morariu 1943: I (!), III (4,!), V (!)  
 122. Urticetum dioicae Steien 1931; Turenschi 1966: I-V  
 123. Potentillo-Artemisietum absinthii (Prodan 1948) Falinski 1964: II-IV (!)  
 124. Lycietum barbarum Felföldy 1942 corr. Soó 1971: III, V (!)  
*Tussilaginion* Szabó 1971 n.n.  
 125. Tussilaginetum farfarac Oberd. 1949: II, IV (!)  
 CALYSTEGIETALIA (CONVOLVULETALIA) SEPIUM Tx. 1950  
*Calystegion sepium* Tx. 1947 ex Oberd. 1949  
 126. Rudbeckio-Brachypodietum silvaticae Szabó 1970: III (!)  
 127. Glycyrrhizetum echinatae (Soó 1940 n.n.; Timár 1947) Slavnic 1951: V (!)  
 128. Polygonetum cuspidati Tx. et Raabe 1950 apud Oberd. 1967: III, V (!)  
 129. Helianthetum decapetali Morariu 1967 n.n.: III (!)  
 130. Eupatorietum cannabini Tx. 1937: II, III (!)  
 BIDENTETEA TRIPARTITI Tx., Lohm. et Prsg. 1950  
 BIDENTETALIA TRIPARTITI Br.-Bl. et Tx. 1943  
*Bidention tripartiti* Nordh. 1940  
 131. Bidentetum tripartiti (W. Koch 1926) Libbert 1932: III, V(!)  
 132. Ranunculatum sclerati Siss. 1946 em. Tx. 1950: III (!)  
 133. Bidentetum cernui Slavnic 1951: III (!)  
 134. Xanthio strumarii-Chenopodietum albi (Timár 1947) I. Pop 1968: V (!)  
*Chenopodion fluviatile (rubri)* Tx. 1960  
 135. Echinochloo-Polygonetum lapathifolii (Ujvárosi 1940) Soó et Csűrös (1944)1947: III-  
 V (4,47,!)  
 - chenopodictosum albi Soó 1961: III (4,!)  
 136. Echinochloo-Setarietum lutescentis Felföldy 1942 corr. Soó 1971: III (!)  
 137. Chenopodietum glauci (Wenzl. 1934) Raabe 1950: I, III (!)  
 138. Xanthictum italici Timár 1950: III-IV (25,!)  
  
 PLANTAGINETEA MAJORIS Tx. et Prsg. 1950  
 PLANTAGINETALIA MAJORIS Tx. (1947)1950  
*Polygonion avicularis* Br.-Bl. 1931 emend. Tx. 1950  
 139. Lolio-Plantaginetum majoris (Linkola 1921) Berger 1930: IV-V (43,!)  
 140. Poëtum annuae Gams 1927: I (!), III-IV (4,!)  
 141. Polygonetum avicularis Gams 1927: II-V (4,25,!)  
 - matricarietosum discoideae Morariu 1967 n.n.: II (!)  
 142. Dauco-Matricarietum inodora I. Pop (1966)1968: III (!)  
 143. Juncetum tenuis (Dicmont, Siss. et Westhoff 1940) Schwick. 1944: I-II (!)  
*Agropyro Rumicion crispi* Nordh. 1940  
 144. Myosuretum minimi Diem., Siss. et Westh. 1940: V (!)  
 145. Trifolio repenti-Lolietum Krippelova 1967: IV (25)  
 146. Lolio-Potentilletum anserinae Knapp 1946: II (!), IV (43)

147. Rorippo silvestri-Agrostictum stoloniferae (Moor 1958) Oberd. et Th. Muller 1961: IV-V (25.!)  
 148. Rorippo austriaceae-Agropyretum repentis (Timár 1947)Tx. 1950:IV (6a.32a)  
 149. Rumici-Alopecuretum geniculati Tx. (1937)1950, Simon 1957: V (IIa)  
 150. Ranunculetum repentis Knapp 1946 emend. Oberd. 1957: II-III (!)  
 151. Juncetum effusi Soó (1931)1949: I-V  
 EPILOBIETEA ANGUSTIFOLII Tx. et Prsg.1950  
 EPILOBIETALIA ANGUSTIFOLII Tx.1950 corr. Soó 1961  
*Atropion bella-donnae* (Br -Bl. 1930) Tx. 1931  
 152. Rubo-Epilobietum Hadac et al. 1969: I-II (!)  
 PETASITETO-CHAEROPHYLLETALIA Morariu 1967  
*Telektion speciosae* Morariu 1967 n.n.  
 153. Telekio speciosae-Petasitetum albae Beldie 1967: II (1)  
 SALICETEA PURPUREAE Moor 1958  
 SALICETALIA PURPUREAE Moor 1958  
*Salicion albae* (Soó 1930 n.n.)Muller et Gors 1958  
 154. Salici-Populetum (Tx. 1931)Mejer Drees 1936: III-IV (4.11a.32a.!)  
 155. Salicetum albae-fragilis Issler 1926 em. Soó 1957: II-V (22,25.!)  
 - amorphosum fruticosae Morariu et Danciu 1970: III-V (25.!)  
 - echinocystosum nov. fac.: III-V (!)  
*Salicion triandrae* Muller et Gors 1958  
 156. Salicetum triandrae Malcuit 1929: III-V (!)  
 - amorphosum fruticosae Borza 1954 n.n.: IV-V (!)  
 - salicetosum viminalis Soó 1958: III-V (!)  
 157. Salicetum purpureae (Soó1934 n.n.) Wendelbg.-Zelinka 1952: II-III (9.!)  
 ALNETEA GLUTINOSAE Br -Bl. et Tx. 1943 em. Muller et Gors 1958  
 SALICETALIA AURITAE Doing 1962 em. Westh. 1969  
*Salicion cinereae* Muller et Gors 1958  
 158. Calamagrosti-Salicetum cinereae Soó et Zólyomi 1955: I (30.!), II, IV (!)  
 - spiraeetosum salicifoliae Fl. Rațiu 1968: I (30.!)  
  
 QUERCETEA PUBESCENTI-PETRAEAE (Oberd. 1948)Jakucs 1960  
 ORNO-COTINETALIA Jakucs 1960  
*Quercion farnetto* I.Horvat. 1954 corr. Soó 1960  
 159. Quercetum farnetto-cerris Georgescu 1945.Rudski 1949: IV (25.!)  
 160. Quercetum cerris Georgescu 1941: IV (25)  
 PRUNETALIA Tx. 1952  
*Prunion spinosae* Soó (1930 n.n.)1940  
 161. Pruno spinosae-Crategetum (Soó 1927)Hueck 1931: IV-V (4.25.!)  
 162. Coryletum avellanac Soó 1927: II (22.!), IV (25.!)  
 QUERCO-FAGETEA Br.-Bl. et Vliger 1937 em. Soó 1964  
 FAGETALIA SILVATICAE (Pawl. 1928) Tx. et Diem. 1936  
*Aino Padion* Knapp 1942 em. Medwecka-Kornas 1957  
 163. Fraxino-Ulmetum (Tx. 1952) Oberd. 1953: V (24.!)

- fraxinetosum angustifoliae I. Pop 1979: V (24,!)
- quercetosum robori I. Pop 1979: V (25)
- 164. Alnetum incanae (Brockman 1907) Aichinger et Siegrist 1930: I (30,!),II(!)
- matuccetosum Soó 1962; Lungu 1971: II (!)
- spiracetosum salicifoliae Fl. Rațiu 1968: I (30)
- 165. Alnetum glutinosae-incanae Br.-Bl. (1915)1930: II (!)
- 166. Aegopodio-Alnetum J. Kárpáti et Jurko 1961: IV (25,!)
- Moehringio muscosae Acerion* (Soó 1964)Boșcaiu 1979
- 167. Staphyleo-Tilietum platyphylli Täuber 1986: IV (44)
- 168. Carpino-Tilietum platyphylli Täuber 1986: IV (44)
- accetosum tatarici Täuber 1986: IV (44)
- Carpinion* Oberd. 1953
- 169. Melampyro bihariense-Carpinetum Soó 1964: III-IV (4,25)
- 170. Carpino-Quercetum petraeae Borza 1941; I. Pop et Hodisan 1960: IV (25,!)
- 171. Carpino-Fagetum Pauca 1941: IV (25)
- Symphyo Fagion* (Vida 1959)Soó 1964
- 172. Festuco drymeae-Fagetum morariu et. al. 1968: II (!), IV (25)
- 173. Chrysanthemo rotundifolio-Piceo-Fagetum Soó 1962, Vida 1959: II (!)
- VACCINIO-PICEETEA Br.-Bl. 1939
- VACCINIO-PICEETALIA Br.-Bl. 1939 em. Hadac 1962
- Vaccinio myrtillo-Piccon abietis* Brezina et Hadac 1962
- 174. Hieracio tamissilvanico-Piccetum abietis (Zlatnik 1935)Pawl. 1939: I-II (!)

### Discussion

Analysis of the flora and vegetation points out that the Mureș Valley is now moderately degraded by human activity. The rate of degradation increases from the springs to the river mouth, and it has repercussions not only on the water ways of the Mureș, but also on the landscape of its banks. The best preserved sectors are I and II while the most deteriorated ones are V, III and IV, respectively. This fact is revealed also by the small number of therophyte species in the former two sectors (54 in I, 66 in II) as compared to the latter ones (318 in V, 304 in IV and 253 in III). The therophytes are indicators of drought and a degraded environment, by growing especially near localities as ruderal weeds and in crops as segetal ones. The cosmopolites and adventive elements our allegation by their number in which they occur in the five sectors. Thus, the cosmopolites are distributed as follows: 33 in I, 32 in II, 60 in III, 64 in IV and 68 in V; the adventive elements: 5 in I, 8 in II, 24 in III, 30 in IV and 27 in V.

The vegetation of the Mureș valley is only to a limited extent natural and primary. It is about the riverside coppices (especially on the inferior course), the peat bogs and the rocky regions of the superior flow. Most of the vegetation is secondary, being represented by lawns (mainly sectors I and IV) and farming areas (particularly sectors V and III).

- The following areas must be at least partly protected and preserved for their floristic-phytocoenologic and landscape values: swamps from sector I (e.g. Voşlobeni, Joseni, Remetea), rocky regions of the Toplița-Deda strait, woods near Arad (Ciala, Bezdin) and salt marshes at Idciu, Nagylak, Makó and Szeged.

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*Constantin Drăgulescu, Sibiu University, Bul.Victoriei Nr. 39., 2400 Sibiu, Romania*