# Lengyel A., Illyés E., Bauer N., Csiky J., Király G., Purger D. & Botta-Dukát Z. (2016): Classification and syntaxonomical revision of mesic and semi-dry grasslands in Hungary. – Preslia 88: 201–228

Electronic Appendix 1. Syntaxa of mesic and semi-dry grasslands according to Borhidi et al. (2012).

Order: Arrhenatheretalia Tx. 1931 (in Molinio-Arrhenatheretea Tüxen 1937)

- 1. Alliance: Arrhenatherion elatioris Koch 1926
- 1.1. Association: Anthoxantho-Festucetum pratensis Borhidi 2012
- 1.2. Association: Pastinaco-Arrhenatheretum (Knapp 1954) Passarge 1964
- 1.2.1. Subassociation: typicum
- 1.2.2. Subassociation: trisetetosum flavescentis Horvatić 1930
- 1.2.3. Subassociation: festucetosum rubrae Jeanplong 1960
- 1.2.4. Subassociation: caricetosum tomentosae Lájer 2002
- 1.3. Association: Anthyllido-Festucetum rubrae (Máthé & Kovács 1960) Soó 1971
- 1.3.1. Subassociation: typicum Borhidi 2012
- 1.3.2. Subassociation: agrostetosum tenuis (Máthé & Kovács 1960) Borhidi 2012
- 1.3.3. Subassociation: arrhenatheretosum (Máthé & Kovács 1960) Borhidi 2012
- 1.4. Association: Anthoxantho–Festucetum pseudovinae Juhász-Nagy 1959
- 2. Alliance: Phyteumo-Trisetion (Passarge 1969) Ellmauer & Mucina 1993
- 2.1. Association: Geranio-Trisetetum flavescentis Knapp ex. Oberd. 1957
- 3. Alliance: Cynosurion cristati Tüxen 1947
- 3.1. Association: Lolio-Cynosuretum Tüxen 1937
- 3.2. Association: Festuco commutatae–Cynosuretum Tüxen ex Büker 1942

Order: Brometalia erecti Br.-Bl. 1936 (in Festuco-Brometea Br.-Bl. & Tüxen ex Klika & Hadač 1944)

- 1. Alliance: Bromion erecti Br.-Bl. 1936
- 1.1. Association: Onobrychido viciaefoliae–Brometum erecti Müller 1966
- 1.2. Association: Carlino acaulis-Brometum Oberdorfer 1957
- 2. Alliance: Cirsio pannonicae–Brachypodion pinnati Hadač & Klika 1944
- 2.1. Association: Euphorbio pannonicae–Brachypodietum pinnati Horváth 2010
- 2.2. Association: Polygalo majoris-Brachypodietum pinnati Wagner 1941
- 2.3. Association: Sanguisorbo minoris-Brometum erecti Illyés, Bauer & Botta-Dukát 2009
- 2.4. Association: Trifolio medii-Brachypodietum pinnati Illyés, Bauer & Botta-Dukát 2009
- 2.5. Association: Lino tenuifolii-Brachypodietum pinnati (Dostál 1933) Soó 1971
- 2.6. Association: Poo badensis-Caricetum montanae Sipos & Varga 1996

# Reference

Borhidi, A., Kevey, B. & Lendvai, G. (2012): Plant communities of Hungary. Akadémiai Kiadó, Budapest, 544 pp.

Electronic Appendix 2. Aggregate species applied in the classification of Hungarian mesic and semi-dry meadows. Nomenclature is according to Király (2009).

Achillea millefolium agg.: A. millefolium, A. collina, A. pratensis, A. asplenifolia; excl. A. pannonica

Agrostis canina agg.: A. canina, A. vinealis

Agrostis stolonifera agg.: A. stolonifera, A. gigantea

Arabis hirsuta agg.: A. hirsuta, A. sagittata

Arenaria serpyllifolia agg.: A. serpyllifolia, A. leptoclados Brachypodium pinnatum agg.: B. pinnatum, B. rupestre Bromus erectus agg.: B. erectus, B. reptans, B. pannonicus Bromus racemosus agg.: B. racemosus, B. commutatus

Carex praecox agg.: C. curvata, C. praecox

Carex muricata agg.: C. divulsa, C. muricata (incl. subsp. lamprocarpa) Cerastium brachypetalum agg.: C. brachypetalum, C. tenoreanum

Cerastium pumilum agg.: C. glutinosum, C. pumilum Dianthus pontederae agg.: D. giganteiformis, D. pontederae Euphrasia rostkoviana agg.: E. rostkoviana, E. kerneri Festuca pallens s.lat.: F. guestfalica, F. pallens, F. pannonica

Festuca pratensis agg.: F. pratensis, F. arundinacea

Festuca rubra agg.: F. nigrescens, F. rubra

Galium mollugo agg.: G. mollugo, G. album, G. lucidum

Genista tinctoria s.lat.: G. ovata, G. tinctoria

Helictotrichon adsurgens agg.: H. adsurgens, "H. praeustum" Hieracium pilosella agg.: H. lachenalii, H. macranthum, H. pilosella

Hypericum maculatum agg.: H. maculatum, H. dubium

Jurinea mollis agg.: J. gycacantha, J. mollis Koeleria cristata agg.: K. cristata, K. majoriflora

Leucanthemum vulgare agg.: L. ircutianum, L. margaritae, L. vulgare

Lotus corniculatus agg.: L. corniculatus, L. borbasii

Luzula campestris agg.: L. campestris, L. divulgata, L. multiflora, "L. sudetica"

Molinia caerulea agg.: M. caerulea, M. arundinacea Ononis arvensis s.lat.: O. arvensis, O. spinosiformis Ornithogalum umbellatum agg.: O. kochii, O. umbellatum

Phleum pratense agg.: Ph. bertolonii, Ph. pratense

Poa pratensis agg.: P. pratensis, P. angustifolia, P. humilis Potentilla argentea agg.: P. argentea, P. inclinata, P. neglecta Pseudolysimachion spicatum agg.: P. spicatum, P. orchideum Ranunculus auricomus agg.: R. auricomus, R. cassubicus

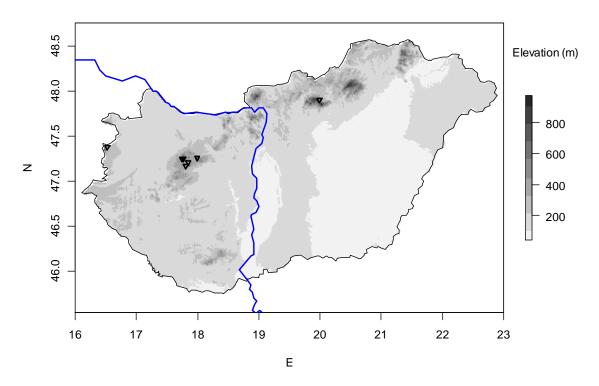
Ranunculus polyanthemos agg.: R. polyanthemos, R. polyanthemoides

Rumex acetosa s.lat.: R. acetosa, R. thyrsiflorus Scleranthus annuus agg.: S. annuus, S. polycarpos Senecio aquaticus agg.: S. aquaticus, S. erraticus Thalictrum minus agg.: Th. minus, Th. pseudominus Thymus pannonicus agg.: Th. pannonicus, Th. glabrescens Veronica chamaedrys agg.: V. chamaedrys, V. vindobonensis

Vicia sativa agg.: V. angustifolia, V. sativa.

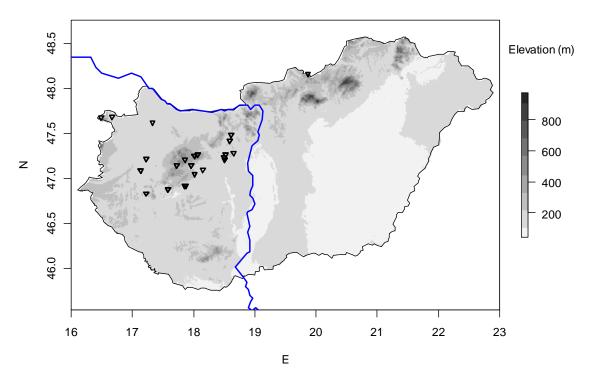
**Electronic Appendix 3.** Faithful, constant and dominant species and distribution maps for the 17 associations in *Arrhenatheretalia* and *Brometalia erecti*. Fidelity threshold for faithful species: phi > 25 (on 0 to 100 scale; bolded if phi >50). Only species with Fisher's exact test p<1e-3 are shown. Frequency threshold for constant species: 40% (frequency >80% bolded). Cover threshold for dominant species: 15%. Frequency threshold for dominant species: 10% (cover >50% bolded).

# Ranunculo bulbosi-Arrhenatheretum



# Number of relevés: 14

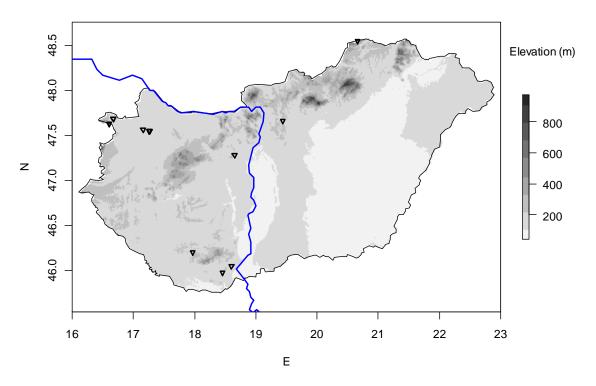
Faithful species: Myosotis arvensis 45.3, Rhinanthus minor 42.0, Agrimonia eupatoria 35.8, Vicia hirsuta 33.4, Festuca rubra agg. 32.3, Vicia tetrasperma 30.2, Cruciata laevipes 26.9, Arrhenatherum elatius 25.2, Holcus lanatus 25.1, Campanula patula 25.0 Constant species: Arrhenatherum elatius 100, Galium verum 93, Agrimonia eupatoria 93, Rhinanthus minor 86, Dactylis glomerata 86, Lotus corniculatus agg. 79, Festuca rubra agg. 79, Vicia hirsuta 71, Trifolium pratense 71, Ranunculus polyanthemos agg. 71, Leucanthemum vulgare agg. 71, Anthoxanthum odoratum 71, Trisetum flavescens 64, Plantago lanceolata 64, Holcus lanatus 64, Centaurea jacea agg. 64, Campanula patula 64, Poa pratensis agg. 57, Luzula campestris agg. 57, Colchicum autumnale 57, Briza media 57, Vicia sativa agg. 50, Salvia pratensis 50, Myosotis arvensis 50, Knautia arvensis 50, Cruciata laevipes 50, Bromus erectus agg. 50, Tragopogon orientalis 43, Galium mollugo agg. 43, Clinopodium vulgare 43, Achillea millefolium agg. 43
Dominant species: Arrhenatherum elatius 93, Trisetum flavescens 21, Danthonia alpina 14, Bromus erectus agg. 14



Faithful species: *Medicago sativa 51.7*, Salvia nemorosa 35.8, Tragopogon dubius 35.4, Carduus acanthoides 30.7, Convolvulus arvensis 27.4, Chondrilla juncea 26.7, Arrhenatherum elatius 25.2

Constant species: Arrhenatherum elatius 100, Dactylis glomerata 96, Poa pratensis agg. 75, Galium mollugo agg. 64, Convolvulus arvensis 64, Vicia sativa agg. 58, Achillea millefolium agg. 58, Trifolium pratense 57, Plantago lanceolata 57, Galium verum 43, Agrimonia eupatoria 43

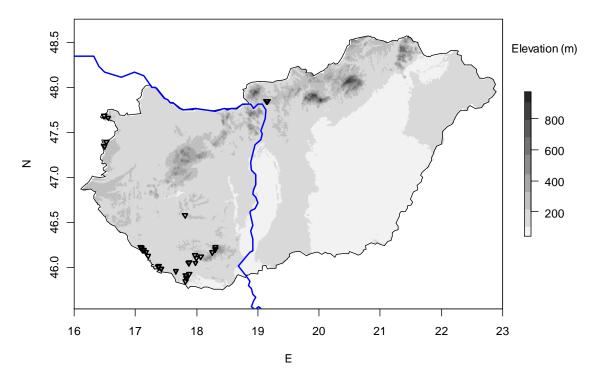
Dominant species: Arrhenatherum elatius 100



Faithful species: Cirsium canum 43.0, Galium mollugo agg. 40.7, Vicia sativa agg. 35.5, Pastinaca sativa 35.5, Lathyrus tuberosus 34.9, Cirsium arvense 34.3, Ranunculus acris 32.3, Vicia hirsuta 26.8, Arrhenatherum elatius 25.2

Constant species: Ranunculus acris 100, Galium mollugo agg. 100, Arrhenatherum elatius 100, Trifolium pratense 89, Festuca pratensis agg. 89, Dactylis glomerata 89, Vicia sativa agg. 83, Vicia hirsuta 61, Pastinaca sativa 61, Cirsium canum 61, Achillea millefolium agg. 61, Poa pratensis agg. 56, Holcus lanatus 56, Alopecurus pratensis 56, Cirsium arvense 50, Centaurea jacea agg. 50

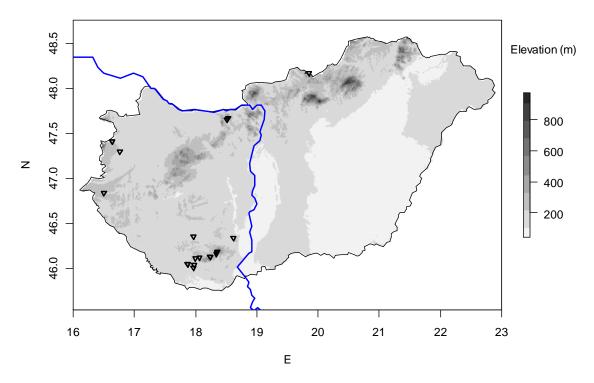
Dominant species: Arrhenatherum elatius 89, Festuca pratensis agg. 17, Bromus erectus agg. 11, Anthoxanthum odoratum 11, Alopecurus pratensis 11



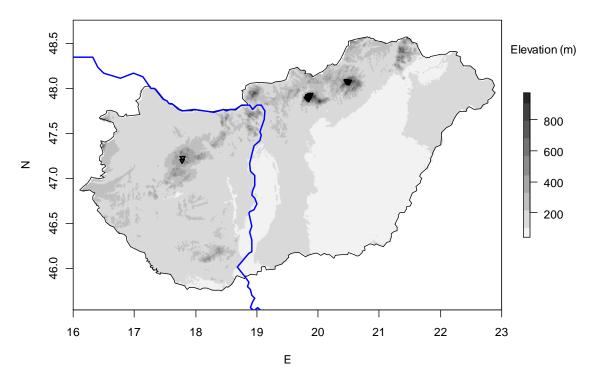
Faithful species: Holcus lanatus 37.0, Trisetum flavescens 33.5, Lathyrus pratensis 33.5, Alopecurus pratensis 33.3, Euphorbia esula 32.3, Myosotis ramosissima 28.5, Cruciata laevipes 26.9, Rumex acetosa s.lat. 26.6, Colchicum autumnale 26.6, Betonica officinalis 25.1

Constant species: Poa pratensis agg. 95, Galium verum 93, Rumex acetosa s.lat. 91, Trisetum flavescens 89, Alopecurus pratensis 89, Achillea millefolium agg. 89, Centaurea jacea agg. 86, Lathyrus pratensis 84, Holcus lanatus 84, Festuca pratensis agg. 82, Dactylis glomerata 80, Trifolium pratense 77, Ranunculus acris 75, Anthoxanthum odoratum 75, Veronica chamaedrys agg. 73, Plantago lanceolata 70, Betonica officinalis 70, Colchicum autumnale 68, Lotus corniculatus agg. 66, Galium mollugo agg. 64, Arrhenatherum elatius 64, Luzula campestris agg. 57, Vicia hirsuta 50, Lychnis flos-cuculi 50, Glechoma hederacea 50, Cruciata laevipes 50, Campanula patula 50, Carex hirta 48, Helictotrichon pubescens 48, Festuca rupicola 45, Briza media 45, Erigeron annuus 43, Veronica arvensis 41, Potentilla reptans 41, Myosotis ramosissima 41, Filipendula vulgaris 41, Clinopodium vulgare 41, Cerastium brachypetalum agg. 41

Dominant species: Holcus lanatus 25, Alopecurus pratensis 18, Poa pratensis agg. 16, Anthoxanthum odoratum 14, Trisetum flavescens 11, Betonica officinalis 11



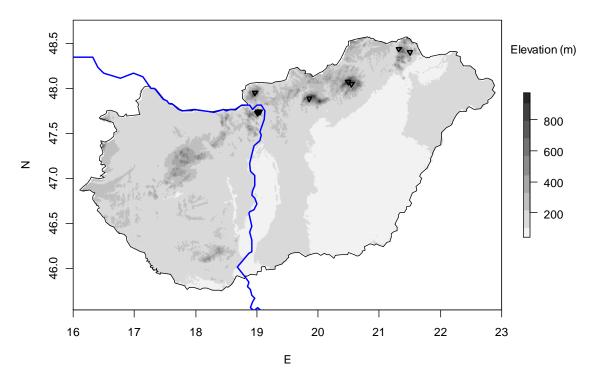
Faithful species: Poa trivialis 50.6, Vicia grandiflora 41.1, Crepis biennis 35.8, Glechoma hederacea 34.9, Pimpinella major 33.1, Taraxacum officinale 31.5, Pastinaca sativa 30.6, Veronica chamaedrys agg. 30.2, Ranunculus bulbosus 27.6
Constant species: Achillea millefolium agg. 95, Veronica chamaedrys agg. 91, Arrhenatherum elatius 91, Taraxacum officinale 86, Poa pratensis agg. 86, Festuca pratensis agg. 86, Plantago lanceolata 82, Centaurea jacea agg. 82, Trifolium pratense 77, Glechoma hederacea 77, Trisetum flavescens 73, Alopecurus pratensis 73, Rumex acetosa s.lat. 64, Dactylis glomerata 64, Trifolium repens 59, Ranunculus acris 59, Lotus corniculatus agg. 59, Pastinaca sativa 55, Galium verum 55, Daucus carota 55, Convolvulus arvensis 55, Cerastium fontanum agg. 55, Poa trivialis 50, Lathyrus pratensis 50, Galium mollugo agg. 50, Crepis biennis 50, Ranunculus bulbosus 45, Potentilla reptans 45, Carex hirta 45, Vicia sativa agg. 41, Vicia grandiflora 41, Stellaria graminea 41
Dominant species: Alopecurus pratensis 36, Trisetum flavescens 32, Trifolium pratense 27, Festuca pratensis agg. 27, Centaurea jacea agg. 23, Arrhenatherum elatius 23, Poa pratensis agg. 18, Dactylis glomerata 18, Poa trivialis 14



Faithful species: Thymus pulegioides 47.4, Alchemilla sp. 43.0, Seseli libanotis 40.7, Cruciata glabra 39.1, Helictotrichon pubescens 38.9, Primula veris 38.6, Agrostis capillaris 36.7, Viola canina 35.0, Selinum carvifolia 35.0, Festuca rubra agg. 34.5, Galium boreale 34.1, Carex tomentosa 33.6, Hypericum perforatum 33.4, Hypericum hirsutum 33.4, Aegopodium podagraria 33.4, Luzula luzuloides 32.8, Allium scorodoprasum 32.3, Trifolium ochroleucon 31.1, Nardus stricta 30.1, Fragaria viridis 28.7, Potentilla heptaphylla agg. 28.3, Briza media 27.8, Arrhenatherum elatius 25.2

Constant species: Arrhenatherum elatius 100, Dactylis glomerata 94, Briza media 94, Helictotrichon pubescens 94, Achillea millefolium agg. 88, Luzula campestris agg. 82, Galium verum 82, Festuca rubra agg. 82, Agrostis capillaris 82, Veronica chamaedrys agg. 76, Hypericum perforatum 76, Fragaria viridis 76, Rumex acetosa s.lat. 71, Pimpinella saxifraga 71, Viola canina 65, Ranunculus polyanthemos agg. 65, Primula veris 65, Lotus corniculatus agg. 65, Festuca pratensis agg. 65, Cruciata glabra 65, Leontodon hispidus 59, Centaurea jacea agg. 59, Betonica officinalis 59, Poa pratensis agg. 53, Carex tomentosa 53, Anthoxanthum odoratum 53, Allium scorodoprasum 53, Plantago media 47, Leucanthemum vulgare agg. 47, Lathyrus pratensis 47, Festuca rupicola 47, Colchicum autumnale 47, Carex pallescens 47, Trifolium montanum 41, Thymus pulegioides 41, Stellaria graminea 41, Ranunculus acris 41, Filipendula vulgaris 41

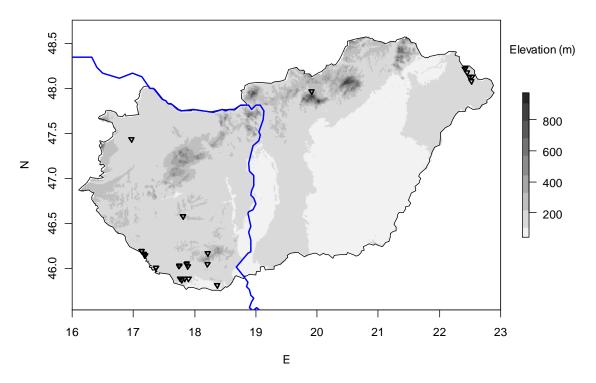
Dominant species: Arrhenatherum elatius 47, Fragaria viridis 24, Galium boreale 18, Briza media 18, Galium verum 12, Festuca rupicola 12, Festuca rubra agg. 12



Faithful species: Ranunculus auricomus agg. 61.9, Dianthus deltoides 60.8, Phleum pratense agg. 50.2, Carex pallescens 50.2, Agrostis capillaris 47.4, Lysimachia nummularia 44.0, Juncus tenuis 44.0, Festuca rubra agg. 40.3, Peucedanum carvifolia 39.9, Orobanche gracilis 39.7, Prunella vulgaris 38.6, Lathyrus pratensis 38.2, Galium boreale 37.7, Stellaria graminea 35.9, Carex panicea 34.6, Ajuga reptans 34.6, Cynosurus cristatus 34.5, Ranunculus acris 32.3, Polygala vulgaris 30.8, Trifolium repens 30.7, Ranunculus repens 29.1, Festuca pratensis agg. 28.6, Colchicum autumnale 27.3

Constant species: Ranunculus acris 100, Festuca pratensis agg. 100, Agrostis capillaris 100, Lathyrus pratensis 92, Festuca rubra agg. 92, Carex pallescens 92, Trifolium repens 85, Stellaria graminea 85, Plantago lanceolata 85, Dactylis glomerata 85, Centaurea jacea agg. 85, Achillea millefolium agg. 85, Luzula campestris agg. 77, Lotus corniculatus agg. 77, Dianthus deltoides 77, Briza media 77, Veronica chamaedrys agg. 69, Ranunculus auricomus agg. 69, Prunella vulgaris 69, Poa pratensis agg. 69, Leontodon hispidus 69, Colchicum autumnale 69, Trifolium pratense 62, Rumex acetosa s.lat. 62, Ranunculus polyanthemos agg. 62, Lysimachia nummularia 62, Holcus lanatus 62, Galium verum 62, Anthoxanthum odoratum 62, Alopecurus pratensis 62, Taraxacum officinale 54, Rhinanthus minor 54, Leucanthemum vulgare agg. 54, Glechoma hederacea 54, Fragaria viridis 54, Filipendula vulgaris 54, Cynosurus cristatus 54, Campanula patula 54, Viola canina 46, Trisetum flavescens 46, Leontodon autumnalis 46, Cerastium fontanum agg. 46, Carex hirta 46, Helictotrichon pubescens 46, Ajuga reptans 46

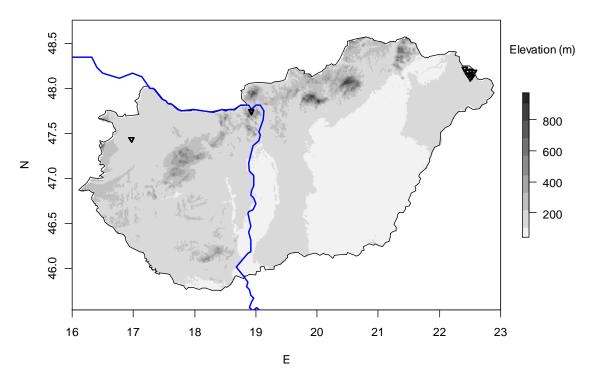
Dominant species: Festuca pratensis agg. 38, Agrostis capillaris 31



Faithful species: Rumex acetosella 35.9, Ononis arvensis s.lat. 33.4, Trifolium hybridum 33.1, Festuca rupicola 31.3, Moenchia mantica 30.1

Constant species: Festuca rupicola 100, Plantago lanceolata 85, Galium verum 79, Centaurea jacea agg. 70, Anthoxanthum odoratum 70, Achillea millefolium agg. 64, Trisetum flavescens 61, Rumex acetosa s.lat. 61, Poa pratensis agg. 58, Trifolium pratense 55, Luzula campestris agg. 55, Lotus corniculatus agg. 55, Dactylis glomerata 55, Colchicum autumnale 55, Briza media 52, Filipendula vulgaris 48, Festuca pratensis agg. 48, Ononis arvensis s.lat. 45, Leucanthemum vulgare agg. 45, Lathyrus pratensis 42, Campanula patula 42, Betonica officinalis 42

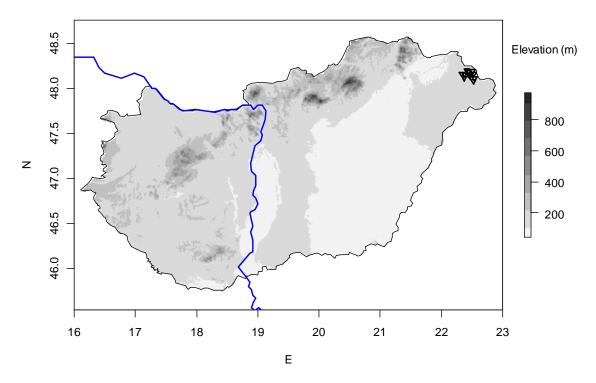
Dominant species: Festuca rupicola 73, Briza media 12, Anthoxanthum odoratum 12



Faithful species: Viola pumila 64.5, Fragaria vesca 62.2, Hieracium auriculoides 60.6, Myosotis stricta 56.2, Polygala comosa 54.1, Stellaria palustris 47.4, Festuca pseudovina 44.7, Hieracium bauhinii agg. 43.7, Sedum sexangulare 42.4, Lychnis viscaria 40.7, Orchis morio 40.6, Cichorium intybus 37.6, Sanguisorba officinalis 35.0, Potentilla argentea agg. 34.9, Ononis arvensis s.lat. 34.9, Leucanthemum vulgare agg. 33.5, Hieracium caespitosum 33.3, Galium rubioides 33.3, Hieracium pilosella agg. 33.0, Silene latifolia 32.6, Rhinanthus serotinus 32.5, Luzula campestris agg. 31.9, Daucus carota 31.4, Ajuga genevensis 31.1, Centaurium erythraea 30.8, Veronica serpyllifolia 30.4, Viola arvensis 29.9, Linum catharticum 29.6, Anthoxanthum odoratum 28.6, Hieracium umbellatum 28.2, Carex praecox agg. 26.3

Constant species: Luzula campestris agg. 100, Achillea millefolium agg. 100, Lotus corniculatus agg. 94, Leucanthemum vulgare agg. 94, Anthoxanthum odoratum 94, Galium verum 88, Fragaria vesca 88, Rumex acetosa s.lat. 82, Ranunculus acris 82, Polygala comosa 82, Centaurea jacea agg. 82, Leontodon hispidus 76, Festuca pseudovina 76, Daucus carota 76, Cichorium intybus 76, Trifolium pratense 71, Plantago lanceolata 71, Filipendula vulgaris 65, Pimpinella saxifraga 59, Myosotis stricta 59, Hieracium bauhinii agg. 59, Potentilla argentea agg. 53, Poa pratensis agg. 53, Glechoma hederacea 53, Campanula patula 53, Viola pumila 47, Prunella vulgaris 47, Ononis arvensis s.lat. 47, Lychnis flos-cuculi 47, Hieracium pilosella agg. 47, Carex praecox agg. 47, Carex hirta 47, Briza media 47, Trifolium repens 41, Tragopogon orientalis 41, Sanguisorba officinalis 41, Linum catharticum 41, Hieracium auriculoides 41, Alopecurus pratensis 41, Agrimonia eupatoria 41

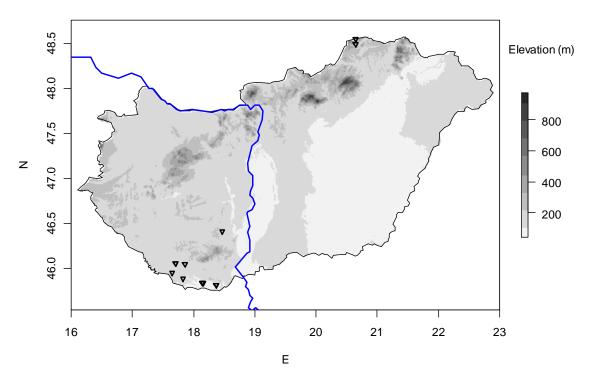
Dominant species: Anthoxanthum odoratum 65, Festuca pseudovina 41, Poa pratensis agg. 18, Leucanthemum vulgare agg. 12



Faithful species: Erophila verna 83.7, Inula britannica 63.8, Cerastium dubium 63.6, Festuca pseudovina 61.5, Ranunculus sardous 60.9, Anthemis arvensis 60.9, Veronica serpyllifolia 57.8, Poa compressa 54.9, Cichorium intybus 52.8, Leontodon autumnalis 48.8, Veronica arvensis 47.4, Euphorbia platyphyllos 46.9, Capsella bursa-pastoris 45.9, Medicago minima 45.8, Potentilla reptans 42.9, Polygonum aviculare 41.0, Trifolium repens 39.2, Taraxacum officinale 39.0, Tripleurospermum inodorum 38.2, Galega officinalis 38.2, Alopecurus pratensis 35.3, Myosotis stricta 34.6

Constant species: Trifolium repens 100, Taraxacum officinale 100, Lotus corniculatus agg. 100, Festuca pseudovina 100, Cichorium intybus 100, Achillea millefolium agg. 100, Veronica arvensis 92, Potentilla reptans 92, Alopecurus pratensis 92, Leontodon autumnalis 85, Trifolium pratense 77, Erophila verna 77, Plantago lanceolata 69, Veronica serpyllifolia 62, Leontodon hispidus 62, Cerastium dubium 62, Galium verum 54, Poa compressa 46, Medicago minima 46, Inula britannica 46, Festuca pratensis agg. 46, Euphorbia cyparissias 46, Convolvulus arvensis 46

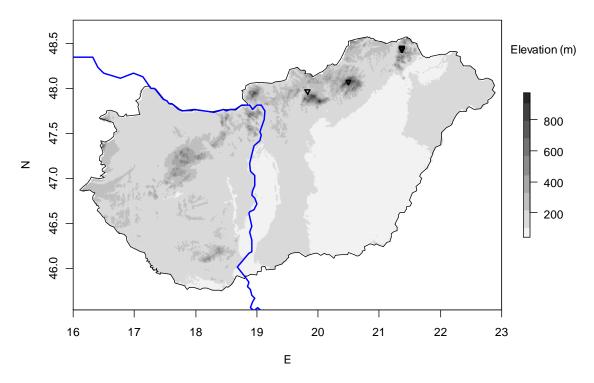
Dominant species: Festuca pseudovina 69, Trifolium repens 15



Faithful species: Ambrosia artemisiifolia 63.7, Bromus racemosus agg. 62.6, Lolium perenne 61.0, Poa annua 60.1, Verbena officinalis 57.6, Cynodon dactylon 56.9, Bellis perennis 46.6, Cynosurus cristatus 46.4, Lotus tenuis 42.2, Bromus hordeaceus 41.9, Carex distans 39.7, Agrostis stolonifera agg. 39.2, Plantago major 38.5, Hordeum secalinum 33.7, Medicago lupulina 32.9, Erigeron annuus 32.8, Trifolium repens 32.3, Ononis spinosa 30.8, Elymus repens 30.0, Odontites rubra agg. 29.0, Ranunculus bulbosus 26.2, Festuca pratensis agg. 25.5

Constant species: Festuca pratensis agg. 94, Achillea millefolium agg. 94, Trifolium repens 88, Poa pratensis agg. 81, Trifolium pratense 75, Plantago lanceolata 75, Galium verum 75, Lolium perenne 69, Cynosurus cristatus 69, Cynodon dactylon 69, Bromus racemosus agg. 69, Taraxacum officinale 62, Medicago lupulina 62, Daucus carota 62, Dactylis glomerata 62, Bromus hordeaceus 62, Erigeron annuus 56, Cerastium fontanum agg. 56, Centaurea jacea agg. 56, Ambrosia artemisiifolia 56, Ranunculus acris 50, Potentilla reptans 50, Lotus corniculatus agg. 50, Cichorium intybus 50, Vicia sativa agg. 44, Veronica chamaedrys agg. 44, Verbena officinalis 44, Trisetum flavescens 44, Ranunculus bulbosus 44, Plantago major 44, Elymus repens 44

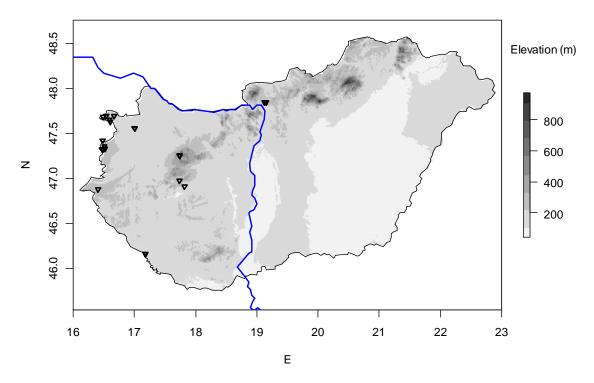
Dominant species: *Trifolium repens 56, Cynodon dactylon 38, Cynosurus cristatus 25, Bromus hordeaceus 19, Poa pratensis agg. 12, Lolium perenne 12, Festuca pratensis agg. 12, Carex distans 12, Bromus racemosus agg. 12* 



Faithful species: Calamagrostis arundinacea 85.9, Potentilla erecta 73.7, Convallaria majalis 66.7, Cruciata glabra 65.6, Potentilla alba 64.7, Gladiolus imbricatus 64.3, Molinia caerulea agg. 64.2, Succisa pratensis 64.0, Symphytum tuberosum agg. 60.1, Genista germanica 60.1, Carlina acaulis 58.9, Astrantia major 58.2, Carex montana 56.3, Digitalis grandiflora 55.7, Primula veris 55.6, Peucedanum oreoselinum 49.7, Vicia sepium 46.5, Pulmonaria mollis 43.5, Luzula luzuloides 43.2, Viola canina 42.2, Cirsium pannonicum 40.5, Carex pallescens 38.7, Stellaria graminea 37.6, Agrostis capillaris 32.2

Constant species: Cruciata glabra 100, Stellaria graminea 88, Primula veris 88, Potentilla erecta 88, Potentilla alba 88, Dactylis glomerata 88, Brachypodium pinnatum agg. 88, Viola canina 75, Luzula campestris agg. 75, Carex pallescens 75, Calamagrostis arundinacea 75, Agrostis capillaris 75, Veronica chamaedrys agg. 62, Succisa pratensis 62, Pimpinella saxifraga 62, Peucedanum oreoselinum 62, Lotus corniculatus agg. 62, Hypericum perforatum 62, Helianthemum ovatum 62, Filipendula vulgaris 62, Carlina acaulis 62, Carex montana 62, Betonica officinalis 62, Vicia sepium 50, Vicia cracca 50, Rumex acetosa s.lat. 50, Pulmonaria mollis 50, Poa pratensis agg. 50, Molinia caerulea agg. 50, Lathyrus pratensis 50, Gladiolus imbricatus 50, Fragaria viridis 50, Festuca rubra agg. 50, Digitalis grandiflora 50, Convallaria majalis 50, Cirsium pannonicum 50, Centaurea jacea agg. 50, Calamagrostis epigejos 50, Helictotrichon pubescens 50

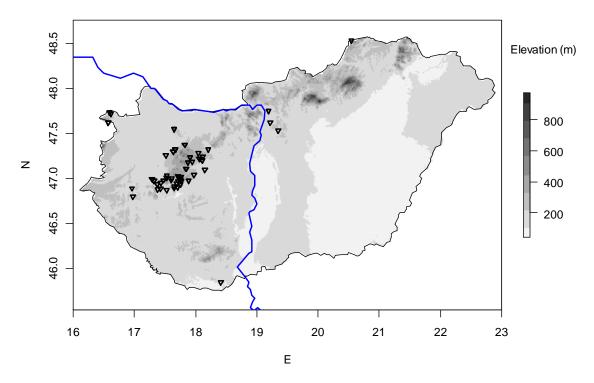
Dominant species: Brachypodium pinnatum agg. 50, Calamagrostis arundinacea 38, Potentilla erecta 25, Viola hirta 12, Viola canina 12, Nardus stricta 12, Molinia caerulea agg. 12, Euphorbia lucida 12



Faithful species: Bromus erectus agg. 47.6, Carex flacca 40.5, Dianthus carthusianorum agg. 36.6, Sesleria uliginosa 32.9, Festuca rupicola 29.8, Trifolium campestre 28.0

Constant species: Bromus erectus agg. 100, Festuca rupicola 97, Achillea millefolium agg. 86, Galium verum 83, Briza media 80, Plantago lanceolata 77, Luzula campestris agg. 74, Lotus corniculatus agg. 74, Centaurea jacea agg. 71, Arrhenatherum elatius 71, Anthoxanthum odoratum 69, Dactylis glomerata 66, Trifolium pratense 63, Leucanthemum vulgare agg. 63, Leontodon hispidus 63, Poa pratensis agg. 60, Pimpinella saxifraga 60, Rumex acetosa s.lat. 51, Fragaria viridis 51, Helictotrichon pubescens 51, Knautia arvensis 49, Betonica officinalis 49, Trisetum flavescens 46, Trifolium campestre 46, Rhinanthus minor 46, Plantago media 43, Holcus lanatus 43, Cerastium brachypetalum agg. 43, Agrimonia eupatoria 43

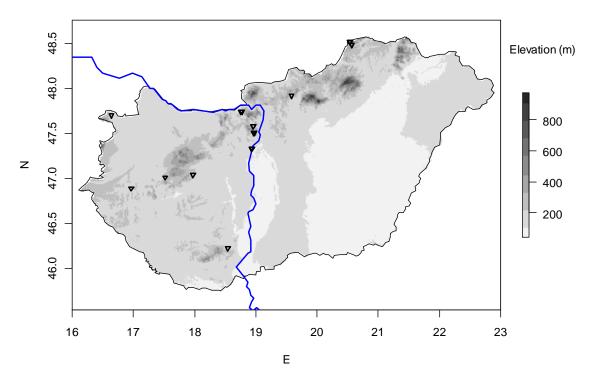
Dominant species: Bromus erectus agg. 91, Festuca rupicola 11



Faithful species: Bromus erectus agg. 47.6, Acinos arvensis 40.4, Teucrium chamaedrys 40.0, Festuca valesiaca 36.9, Potentilla arenaria Borkh. 34.6, Erysimum odoratum 33.6, Anthyllis vulneraria 32.9, Medicago falcata 30.1, Sanguisorba minor 27.3, Thymus pannonicus agg. 26.5, Eryngium campestre 26.3, Dianthus pontederae s.lat. 25.0

Constant species: *Bromus erectus agg. 100*, Teucrium chamaedrys 73, Salvia pratensis 62, Galium verum 54, Medicago falcata 53, Thymus pannonicus agg. 52, Dianthus pontederae s.lat. 51, Euphorbia cyparissias 47, Sanguisorba minor 45, Plantago media 44, Eryngium campestre 44, Festuca valesiaca 42

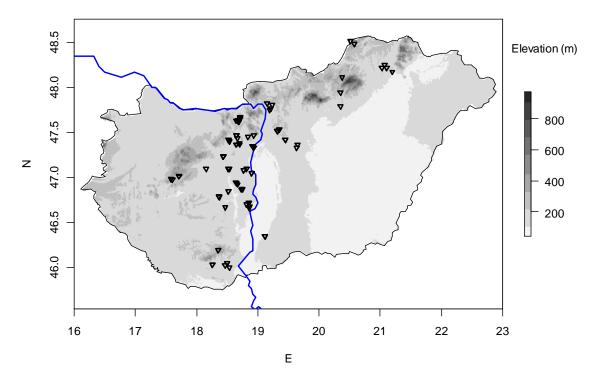
Dominant species: Bromus erectus agg. 96



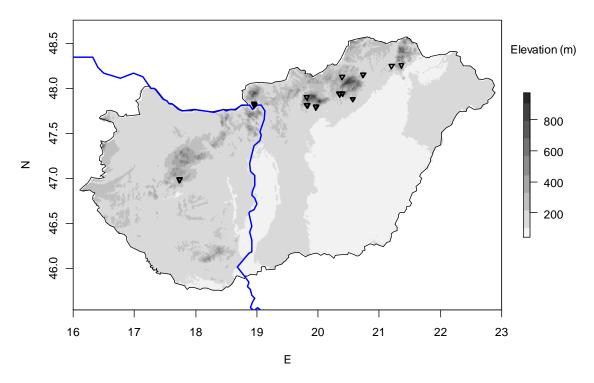
Faithful species: Inula ensifolia 72.0, Polygala major 66.2, Anthericum ramosum 62.4, Pulsatilla grandis 61.4, Peucedanum cervaria 61.1, Campanula glomerata 58.5, Dorycnium germanicum 52.6, Sanguisorba minor 52.3, Aster amellus 51.5, Scorzonera hispanica 50.6, Centaurea scabiosa agg. 50.1, Onobrychis arenaria 48.6, Cirsium pannonicum 46.2, Brachypodium pinnatum agg. 45.6, Linum flavum 45.5, Chamaecytisus hirsutus 43.9, Lembotropis nigricans 43.6, Carex halleriana 43.6, Linum tenuifolium 43.4, Campanula sibirica 40.6, Carex michelii 40.0, Hippocrepis comosa 39.8, Corothamnus procumbens 39.0, Anthyllis vulneraria 38.7, Scabiosa ochroleuca 38.6, Bupleurum falcatum 37.9, Teucrium montanum 36.4, Globularia punctata 36.3, Thesium linophyllon 36.2, Cuscuta epithymum 35.8, Origanum vulgare 35.4, Helianthemum ovatum 34.8, Anemone sylvestris 34.5, Carex montana 33.7, Crepis praemorsa 32.1, Allium flavum 31.6, Chamaecytisus ratisbonensis 31.1, Orchis purpurea 30.6, Tanacetum corymbosum agg. 30.1, Seseli osseum 29.4, Asperula cynanchica 28.7, Geranium sanguineum 27.2, Solidago virgaurea 25.8, Bromus erectus agg. 25.7
Constant species: Brachypodium pinnatum agg. 96, Centaurea scabiosa agg. 92, Peucedanum cervaria 88, Inula ensifolia 80, Anthericum ramosum 80, Sanguisorba minor 76, Campanula glomerata 76, Festuca rupicola 72, Briza media 72, Thesium linophyllon

Anthericum ramosum 80, Sanguisorba minor 76, Campanula glomerata 76, Festuca rupicola 72, Briza media 72, Thesium linophyllon 68, Salvia pratensis 64, Bromus erectus agg. 64, Helianthemum ovatum 60, Dorycnium germanicum 60, Polygala major 56, Cirsium pannonicum 56, Pulsatilla grandis 52, Dactylis glomerata 52, Carex michelii 52, Plantago media 48, Leontodon hispidus 48, Asperula cynanchica 48, Scabiosa ochroleuca 44, Aster amellus 44

Dominant species: Brachypodium pinnatum agg. 40, Inula ensifolia 20, Bromus erectus agg. 12



Faithful species: Euphorbia glareosa 75.5, Elymus hispidus 52.7, Brachypodium pinnatum agg. 47.6, Thalictrum minus agg. 46.6, Chamaecytisus austriacus 39.7, Galium glaucum 35.4, Centaurea scabiosa agg. 34.9, Viola ambigua 34.7, Teucrium chamaedrys 32.0, Campanula rotundifolia agg. 30.4, Medicago falcata 30.3, Festuca rupicola 28.9, Peucedanum alsaticum 28.5, Campanula glomerata 28.4, Helictotrichon adsurgens agg. 27.5, Achillea pannonica 27.1, Adonis vernalis 26.3, Phleum phleoides 25.8, Seseli annuum 25.1 Constant species: Brachypodium pinnatum agg. 99, Festuca rupicola 95, Filipendula vulgaris 82, Euphorbia glareosa 79, Centaurea scabiosa agg. 69, Salvia pratensis 68, Teucrium chamaedrys 62, Galium verum 62, Dactylis glomerata 62, Poa pratensis agg. 58, Elymus hispidus 58, Knautia arvensis 57, Medicago falcata 53, Pimpinella saxifraga 47, Seseli annuum 45, Agrimonia eupatoria 43, Ranunculus polyanthemos agg. 42, Plantago media 42, Campanula glomerata 42
Dominant species: Brachypodium pinnatum agg. 94, Festuca rupicola 28



Faithful species: Danthonia alpina 72.2, Dorycnium herbaceum 57.2, Eryngium campestre 52.0, Helictotrichon adsurgens agg. 49.2, Pseudolysimachion spicatum agg. 45.2, Aster linosyris 39.6, Rosa gallica 36.2, Thymus pannonicus agg. 35.2, Asperula cynanchica 35.0, Dianthus pontederae s.lat. 34.5, Thesium linophyllon 33.4, Seseli varium 33.0, Inula hirta 33.0, Koeleria cristata agg. 32.9, Achillea pannonica 31.1, Echium maculatum 30.9, Trifolium alpestre 30.5, Peucedanum cervaria 29.3, Filipendula vulgaris 28.7, Festuca pseudodalmatica 28.7, Arenaria procera 28.6, Trifolium montanum 27.7

Constant species: Filipendula vulgaris 92, Danthonia alpina 88, Eryngium campestre 76, Trifolium montanum 64, Thymus pannonicus agg. 64, Thesium linophyllon 64, Festuca rupicola 64, Dianthus pontederae s.lat. 64, Briza media 60, Helictotrichon adsurgens agg. 60, Pseudolysimachion spicatum agg. 56, Galium verum 56, Asperula cynanchica 56, Plantago media 52, Achillea millefolium agg. 52, Viola hirta 48, Peucedanum cervaria 48, Fragaria viridis 48, Euphorbia cyparissias 48, Trifolium alpestre 44, Seseli annuum 44, Koeleria cristata agg. 44, Dorycnium herbaceum 44

Dominant species: Danthonia alpina 76, Helictotrichon adsurgens agg. 20, Festuca rupicola 16, Peucedanum cervaria 12, Brachypodium pinnatum agg. 12

Electronic Appendix 4. Fidelity and frequency synoptic table of the associations. Fidelity values are expressed by the phi coefficient after standardization for equal group sizes. Only phi > 20 values and Fisher p < 1e-3 fidelity values are considered.

- A: Ranunculo bulbosi–Arrhenatheretum
- B: Tanaceto-Arrhenatheretum
- C: Pastinaco-Arrhenatheretum
- D: Filipendulo–Arrhenatheretum
- E: Ranunculo-Alopecuretum
- F: Diantho-Arrhenatheretum
- G: Anthoxantho–Festucetum pratensis H: Colchico-Festucetum rupicolae
- I: Anthoxantho-Festucetum pseudovinae
- J: Alopecuro–Festucetum pseudovinae
- K: Cynosuro-Lolietum
- L: Brachypodio-Molinietum
- M: Filipendulo-Brometum
- N: Sanguisorbo-Brometum

O: Polygalo-Brachypodietum

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Galium glaucum	47 35
Campanula rotundifolia agg.	35 37 20
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Cruciata glabra	7					_			39	65		31							6			9								
Primula veris					6	_			39	65		15							5			20		7		8		5	4	
Galium boreale Luzula luzuloides						_			34 33	35 29	38	38		3					4			9								
Allium scorodoprasum					6	- 14		14	32	53	21	38		12		-			31	- 25		3		1						-
Briza media Carlina acaulis	57		2					5	28 24	94 29		77 8		52		.,			13 5			80		18	17	72		28	60 4	
Carlina acaulis Prunella vulgaris			4			1.0		27	24	29 6	39	8 69		3		47			31	10		14		1		4		2	4 12	
Stellaria graminea	21		2		6 8	36	10	41		41	36	85		12		-	38		19 3			3							4	
Cynosurus cristatus Leontodon autumnalis	7				1	_		9		24	34 22	54 46		21 12			 19 85	46	69			3 14		 1						-
Ononis arvensis s.lat.	7				6 1			9					33	45	35	47 -						6								-
Orchis morio Myosotis stricta													22	21			35 38					9		1						-
Myosotis stricta Festuca pseudovina			2			_						23		6			55 38 52 100					3 11		1				2		_
Daucus carota	14		32		11		18	55		6		15		39			8	23	63			34		6				4		-
Veronica serpyllifolia Linum catharticum	7 									12		31				4.4	58 62					6		6		12		3	21 32	2
Cerastium dubium														3			64 62													-
Carex montana												8							5					1	34	40		1		-
Cirsium pannonicum Teucrium chamaedrys			6							6 29		8							4 			3 11	40	73	46	56 40	32	3 62	40	)
Anthyllis vulneraria										6						-							33	35	39	40		2	8	
Medicago falcata Sanguisorba minor	7		11 2			_		14		12 24				21					6			6	30 27	53 45	52	36 76	30	53 14	8 12	,
Thymus pannonicus agg.	14									24				3		10						14	26	52		24	13	33	35 64	
Eryngium campestre			11							10				6								6	26	44		12	16	32	52 76	
Dianthus pontederae s.lat. Stachys recta			6 8							12				36			8 					9	25 22	51 27		40 28	22	17 27	34 64 12	-
Carex humilis																-						3	21	22		24	22	24	8	
Peucedanum cervaria Campanula glomerata										6				9		Ŭ						11 3		11 6	61 58	88 76	28	15 42	29 48	
Centaurea scabiosa agg.	7		11		6	_				6												23		30	50	92	35	69	28	
Brachypodium pinnatum agg.	7									6		8				-						17		9	46	96	48	99	28	3
Linum flavum Carex michelii										24														2 6	45 40	36 52	21 23	18 34	24	1
Thesium linophyllon										35		8				-				- 25		26		18	36	68		21	33 64	
Tanacetum corymbosum agg. Asperula cynanchica						_				12 35												 6		6 20	30 29	40 48	22 14	32 29	16 35 56	
Helictotrichon adsurgens agg.																						6		3		24	28	37	49 60	
Achillea pannonica					6											-								2		16	27	28	31 32	
Inula hirta Filipendula vulgaris	21		 9					5		41		 54		 48								3 31		6 35		12 36	24 24	25 82	33 32 29 92	
Festuca rubra agg.	32 79		11		6	- 30			34	82	40	92		6					6			11						1		-
Holcus lanatus Colchicum autumnale	25 64 20 57			20	56 3 22 2			18 9		 47	23	62 69	 19	30 55		12			13 13	10	12	43 26							12	-
Galium mollugo agg.	43	21	64	41	100 2			50		35		8		6					19			40		6		4		7	8	
Ranunculus acris	14		2	32	100 1		11	59		41	32	100		24		~ _	15		50			26		1		8				-
Alopecurus pratensis Ranunculus bulbosus			2	15	56 3 2		24 28	73 45		6	18	62	18	27 33			35 92	26	31			6 11		1				1		
Veronica chamaedrys agg.	29		9		11 2	1 73	30	91	23	76	19	69		24		35 -			44			29				12		2	8	
Agrostis capillaris Viola canina	14		2			_		5	37 35	82 65	47 22	100 46		9 12		-			6 3			9 14		4				2 1	9 36	
Luzula campestris agg.	57				6 1	57		14	23	82	20	77	9	55	32	100 -				- 75	19	74		8				2	40	
Carex pallescens Trifolium repens	7		 9		6		 17	 59	20	47 24	50 31	92 85		6 33			15 39 100	32	3 <sup>1</sup>			20 23		 1					4	
Festuca rupicola	7		8		6		1/	59 14		47	31	15	31	100			8	32	6		30	23 97		35		72	29	95	64	1
Cichorium intybus			4		6			14				23		24			53 100		50			3	40	100						-
Bromus erectus agg. Festuca pratensis agg.	50		11 15	23	17 89 1	_	22	 86		6 65	 29	100		3 48		a =	46	25	94		48	100 40	48	100	26	64 12		11 6	4 4	,
Arrhenatherum elatius	25 100		100	25	100	- 64	21	91		100		38		33		-			19	- 25		71		25		32		26	20	
Achillea millefolium agg.	43		58		61 1		15	95 55		88		85		64 70			18 100		94			86		40		40		30	52	
Galium verum Dactylis glomerata	93 86	18	43 96		33   1   89			55 64		82 94		62 85		79 55		-	54 		75 63			83 66		54 37		24 52		62 62	56 12	
Centaurea jacea agg.	64		26		50 1		15	82		59		85		70		~ <b>_</b>	8		56	- 50		71		9		20		31	32	
Plantago lanceolata Pimpinella saxifraga	64 36		57 23		28   1   6		17	82 18		24 71	18	85 23	18	85 24			69 23		75		14	77 60		13 37		4 20		8 47	12 40	
Plantago media	14		23		6	_		32		47		31		24			23		6			43		44		48		47	52	
Knautia arvensis	50		40		22			18		29		8		15								49	16	25		40	19	57	16	
Euphorbia cyparissias Carex hirta	29		9		11 1	_	18	5 45		35 24		23 46		18 30			46 15		19 31			11 11	16	47 		28		21	48	
Tragopogon orientalis	43		19		17	- 23		32		18				30		41 -			6			23		6		12		2		
Vicia cracca Securiaera varia			11					27		35		15		21			8		19			20	10	 37		 24	17	1	12	
Securigera varia Calamagrostis epigejos	21		34 6		6			18 9		12		38										11 23	19	37 2		24 20	17	35 5	12 16	
Carex caryophyllea			2			- 5				12		15		24		0			6	- 13	17	31		11		16		9	24	4
Serratula tinctoria Genista tinctoria	7		2		6	-				6 29				15			 					9 9		1 6		24 32	8	5 18	16 32	
Picris hieracioides	21		15		6			23		6				18					25			11		6				3	32	-
Silene vulgaris	21		4 <b>D</b>					,	T	6				18		-	т				,	9 M		10		4		16	4	
Carlina vulgaris agg.	<b>A</b> 14		<b>B</b> 2			<b>D</b> - 2	E					<del>,</del>	H		I		J	J	<u> </u>	L 	I	<b>M</b> 6	11	<b>N</b> 17		O 28	P	5	<b>Q</b> 28	3
Trifolium medium			2		6	_				12		23				-						9		1				5	20	

Inula salicina	 7			 6		2			 	 	 	 24			 				6		1		20		2	 12
Silene nutans	 7			 					 6	 	 	 24			 				14		9		16		2	 
Prunella laciniata	 			 					 6	 8	 15	 			 6				9		8		16		2	 4
Polygonatum odoratum	 			 					 6	 	 	 			 	(	38				9	19	20			 
Tanacetum vulgare	 21	14	15	 				5	 6	 	 3	 12		8	 											 
Verbascum phoeniceum	 			 					 6	 	 	 18			 				3		13				8	 20
Rumex crispus	 			 6	12	14		9	 	 15	 12	 12			 											 
Veronica austriaca	 			 					 6	 	 	 			 						6		24	18	18	 12
Campanula persicifolia	 		2	 					 12	 	 	 			 	2	25				9		8		10	 
Trifolium arvense	 21		6	 		2			 	 	 6	 6		8	 				11		3					 
Heracleum sphondylium	 7		2	 11		5	20	18	 	 	 	 			 		13		6							 
Salvia verticillata	 7		6	 				5	 24	 	 	 			 						4		12		2	 
Equisetum arvense	 7			 11		9		14	 	 	 3	 			 6				6		1					 
Veronica officinalis	 7			 					 6	 15	 3	 6			 				11							 8
Angelica sylvestris	 			 		2			 12	 8	 	 		8	 	2	25									 
Bromus inermis	 		6	 		2			 6	 	 3	 			 								8	15	14	 16
Euphorbia virgata	 		2	 		9			 	 	 12	 			 				6		7		4		5	 8
Melampyrum nemorosum	 			 					 18	 	 	 			 	′	25						8		1	 
Geranium columbinum	 21		4	 					 6	 	 	 			 6					13	11					 
Danthonia decumbens	 			 					 6	 15	 6	 6			 			17	14							 
Ornithogalum umbellatum agg.	 			 					 	 15	 9	 12			 				9		2					 
Deschampsia cespitosa	 	1.0		 6		7		1.4	 6	 8	 	 					13		6							 
Artemisia vulgaris	 7	13	11	 6		2		14	 6	 	 10	 			 											 
Vicia lathyroides	 7			 6		5			 	 0	 12	 6			 		12		6		3 7				1	 
Linaria vulgaris	 		4	 		2			 10	 8	 6	 6					13				,		•		1	 
Gentiana cruciata Valeriana officinalis agg.	 		2	 		2 2		5	 18 18	 8	 	 			 		13						8 4		2	 4
vaieriana officinalis agg. Valerianella locusta	 		2 4	 6	18	14				 	  9	 			 		13		 9				-			
vaierianeiia iocusta Dictamnus albus	 		4	 0	18	14			 	 	 	 			 						10		12		8	 12
Lathyrus latifolius	 		4	 					 	 	 	 			 		13				10		16		3	 4
Geranium pusillum	 7		2	 				5	 	 	 3	 			19				3						1	 
Astragalus glycyphyllos	 7		2	 6					 	 	 	 					13		3		3		4		1	 
Arabis hirsuta agg.	 7		2	 					 	 	 	 									10		16		4	 
Symphytum officinale	 		2	 11	15	11		14	 	 	 	 														 
Scorzonera purpurea	 			 					 	 	 	 			 						8		12			 16
Agrostis canina agg.	 			 					 	 	 3	 6			 6				11						1	 8
Viola reichenbachiana	 			 				5	 	 	 	 			 	′	25						4			 
Cruciata pedemontana	 		8	 					 	 	 12	 6			 								8			 
Melampyrum barbatum	 		4	 					 	 	 	 			 					15	10		4		2	 12
Campanula bononiensis	 		2	 					 	 	 	 			 						6		4	17	11	 8
Vicia pannonica s.lat.	 14	17	11	 					 	 	 	 			 6											 
Cirsium eriophorum	 			 					 12	 8	 	 			 										6	 4
Bothriochloa ischaemum	 			 					 	 	 	 			 						3		12		3	 12
Thesium ramosum	 		4	 					 	 	 3	 6			 						4			19	12	 
Centaurea triumfettii	 			 11	10	1.1			 	 	 	 			 					16	10		12		3	 4
Cardamine pratensis	 			 11	19	11			 6	 	 	 12			 											 
Lathyrus nissolia Lepidium campestre	 		4	 		2			 	 	 6 3	 12 12		8	 						4					 4
Urtica dioica	 		4	 6					 	 	 	 12			 		13				<del>+</del>		4			 4
Cerastium glomeratum	 7			 6	20	11			 	 	 3	 			 											 
Carex otrubae	 			 6		2			 6	 	 	 			13											 
Stipa pennata	 			 					 	 	 	 			 						7		16		4	
Cerastium pumilum agg.	 			 		5			 	 	 3	 6			 				11		1					 
Stipa pulcherrima	 			 					 	 	 	 			 						1		8	14	8	 8
Allium lusitanicum	 			 					 	 	 	 					13				3		8		1	 
Chamaecytisus supinus	 			 					 	 	 	 							3		7		8		2	 4
Geranium palustre	 			 				5	 6	 	 	 			 		13									 
Prunus fruticosa	 			 					 	 	 	 			 								12		3	 8
Knautia drymeia	 7			 		7			 	 	 	 			 				9							 
Pulsatilla species	 			 					 	 	 	 			 				6		2				2	 12
Muscari comosum	 		2	 					 6	 	 	 6			 						2		4		2	 
Euphorbia polychroma	 7			 					 	 	 	 			 						1		4		2	 8
Silene otites	 			 					 	 	 6	 			 						6		8		2	 
Trifolium fragiferum	 			 					 	 	 3	 6			 13											 
Hypochaeris radicata	 		6	 					 	 	 6	 6			 								4			 
Dianthus armeria	 			 					 	 	 9	 6			 6						1					 
Hylotelephium maximum	 7			 					 	 	 	 			 						2				1	 12
Vicia tenuifolia	 			 					 	 	 	 			 						6		8		4	 4
Carum carvi	 			 		2			 	 	 	 6			 		13									 
Melampyrum cristatum	 			 					 	 	 	 			 						3		8		2	 8
Jurinea mollis agg.	 			 					 	 	 	 			 					15	8		12		1	 
Ventenata dubia	 			 					 	 	 9	 12			 											 
Myosotis palustris agg.	 			 					 	 8	 	 			 		13									 
Genista pilosa	 14			 					 	 	 3	 			 						1				2	 
Alyssum montanum	 			 					 	 	 	 					1.2				3		12		1	 4
Tephroseris integrifolia	 		 1	 					 	 	 	 					13				1		4		2	
Centaurea stoebe agg. Lathyrus lacteus	 		4	 					 	 	 6	 									8		12		2	 4
zamyrus ucieus	 			 					 	 	 	 	1		 						J		14		1	 