

Supplementary data (Šibíková-Petrášová et al., Biologia 2017, vol. 72, iss. 7, pp. 721–733).

Appendix 1. 47 relevés recorded in chronological order at PMP 1 (located within area of *Dunajské kriviny*). Species are marked, (S) for species typical for *Salicion albae* alliance, (N) for neophytes. Note that only summer relevés were used in the syntaxonomical analyses and analyses of trends.

Relevé number	00000000011111111112222222222333333333344444444 12345678901234567890123456789012345678901234567
Day	01121022001222121220311102020230102020002101022 38708480362328704599128153324205845252581963252
Month	000 76758575857575758575758585858575857575857585858
Year	999 01122334455667788990011223344556677889900112233
Tree layer	
<i>Populus alba</i> (S)	3233333233322222322212222222222332111112111111
<i>Salix alba</i> (S)	111111+r+++.....
<i>Ulmus laevis</i>	...1111+.....1.....r++r.+.....r++..
<i>Fraxinus pennsylvanica</i> (N)	+11111111+1111++111+1+1+1+++++1+++
<i>Robinia pseudacacia</i> (N)	+++++1.....1+++1111++...
Shrub layer	
<i>Swida sanguinea</i>	21232233334343444444435333443443444444444445444
<i>Populus alba</i> (S)	+1111111+11++12++22+222111212+12212111+11.....
<i>Viburnum opulus</i>	1r+1112222111+11111222+221+1r+rr+r+rr+++.....
<i>Crataegus monogyna</i> agg.	1r++++11+2++121+++22221+r1++11+++1r111111+.
<i>Prunus padus</i>	+...+1111111221112111.rrrrrr...r.r.....
<i>Fraxinus pennsylvanica</i> (N)	+111+.....
<i>Ulmus laevis</i>	+r+++1111+r+.....
<i>Humulus lupulus</i> (S)	1.+r.+rr+22+...++++.+r++r.+1112122+r3
<i>Robinia pseudoacacia</i> (N)	+.1..+1.1rrrrr.+++r+++1.+.....r1+r
<i>Sambucus nigra</i>	++1++1111+1+2+2212222242221
<i>Negundo aceroides</i> (N)	rrrrrr+++++r.....
Herb layer	
<i>Rubus caesius</i> agg.	333232r343422322345.513121222131421143212131334
<i>Urtica dioica</i>	+1++1+1r22131+21122.332223335444323233443332221
<i>Impatiens parviflora</i> (N)	1433223223333222232.21r1222212223+34422r23344++
<i>Iris pseudacorus</i> (S)	+11+++11+11121++1+.+r+++11+r++++1+1+1+1+r++.
<i>Humulus lupulus</i> (S)	r.+r.rr+++.+r+r++r+.111++++1111r31++r22+++2+1+2
<i>Symphytum officinale</i> (S)	r.r+r+r1rr+++1r+.2+.r1++r1+11+1+1+r1r1+11++r.r+
<i>Swida sanguinea</i>	r..1++211+2+2111121.221112222222121222233222211
<i>Phalaroides arundinacea</i> (S)	131111r21+r11+1+11+.++1r.+++rr+++1.122++rr.11.1
<i>Glechoma hederacea</i>	+1+++11111+r+.rrr+.++r+11211++1+r.1.1+rrr+++.+
<i>Galium aparine</i>	r1+1.1+4..r3r4.3r3r.+5+4r3r4r3.2.4r3.2r3+2+3r3.
<i>Aster lanceolatus</i> (N)	...+rr++rr+rrr++1r+r++1++++r.r++r.r.1r+1.++.r1r
<i>Calystegia sepium</i> (S)	r.+.....rrr+rr.r21....+++++2r2+rr112+3121211
<i>Deschampsia cespitosa</i>	+.....+r+r+rr+r.+r+r+++r+rrr.r.r.....
<i>Stellaria media</i>	..r...r.r1rr.1+1.+...+r3.+++r+r+.3.3.+1.2.+.
<i>Leucosium aestivum</i> (S)	+++++1r++1+rrrrr.+...r...r.r.r.r.r..rr.r..r....
<i>Carex acutiformis</i> (S)	+++r+.rr+.+r1++1+1r1+1.1.....
<i>Impatiens noli-tangere</i>	r2+++.+.++r2r2.r.....+.r...r..r.
<i>Angelica sylvestris</i>	..rrrr++rr++rrr.+++.....r.....
<i>Lysimachia vulgaris</i> (S)	r+....rr..r.rrrrr.....r.....r.....
<i>Solanum dulcamara</i> (S)	r..rrrrr.+.....r.....rr.rr.....
<i>Populus alba</i> (S)	..+.r+.r...r.+.....r+.....r....
<i>Scrophularia nodosa</i>	..r...r.+..r...rrrr.....r.....
<i>Lapsana communis</i>	r.r.+..r.r.+...r...r.....r..
<i>Galeopsis speciosa</i>	r...r.+..1.r.r.r.r.....
<i>Ranunculus repens</i> (S)	rr+r..rrr.....r....

<i>Myosoton aquaticum</i>	r..r.....r..r.rr.....r.....
<i>Fallopia convolvulus</i>	+.r..r.r.r..r.....r.....
<i>Rumex conglomeratus</i>	rrr.....r..r.....
<i>Thalictrum flavum</i>	r.....r.r.r.....
<i>Sambucus nigra</i>	+.+++..+rr++l.+rr.r.rrrrr+++.+
<i>Crataegus monogyna</i> agg.	rr.....r.rrrrrrrrr+r+rrrr+.r.+rrrr.
<i>Lamium maculatum</i>	+.r.....+r+r++121212122..r+121+
<i>Carduus acanthoides</i>	+.1.1..+r.r112+++r+++r.+rr.r.+.
<i>Carex muricata</i> agg.	++1++2+++r++++rrrrrrr.+..r..r.
<i>Chelidonium majus</i>	rrrrrrr+.rrrrlr++l+++r111.
<i>Cirsium arvense</i>	..r.....r+r+l++1r132+12122321
<i>Lysimachia nummularia</i>	+.r.....rrrrrr.rrr.r.r..r.rrr....
<i>Acer campestre</i>	r...rr.rr...r..1.r..r.r.r+r+r.rr+.
<i>Carex acuta</i>	+.r+.rr.rrr...r+lrlr..+
<i>Euonymus europaeus</i>	r.....rrr.rr.....rrr...r...+...
<i>Bromus sterilis</i>	r.....1.r.r...r.3.3.2.2.2.1.
<i>Veronica sublobata</i>	rrr.r.r...r.+1.1.r.r.....
<i>Ligustrum vulgare</i>	r.....+.r.....r.r.r2.r...2..+.
<i>Roegneria canina</i>	+.1.1.r+l...132
<i>Robinia pseudacacia</i> (N)	rr+..r.r.r+
<i>Negundo aceroides</i> (N)	..r.....r.r.....r.r++r+.
<i>Ficaria bulbifera</i>	r.+...+.r.+r...
<i>Taraxacum</i> sect. <i>Ruderalia</i>	r.....rrr.rr...r.....
<i>Cucubalus baccifer</i>	r...r.r.r.+..r.r.....
<i>Stenactis *annua</i> (N)	+.r.+..r.....r.....
<i>Raphanus raphanistrum</i>	r++rr.....
<i>Solidago gigantea</i> (N)	1.+....r...r.r.r+r+.rlr+rr+r+l+++.rrr.....
<i>Phragmites australis</i> (S)	...+rrr..r.....r.+r+++r+r.rr+.r.1.rr+.r...+
<i>Stachys palustris</i> (S)	rrr++l+1.rr+r...+r.rr+rr...r.+...rr.
<i>Poa trivialis</i>	+..+.+.1.+++r++r++..r...+r+....rlr.r.r.r.....
<i>Alliaria petiolata</i>	rr.rrrrr+.1.2++r.r.r.r.r.r.+..rr.r.r...
<i>Arctium lappa</i>	...r.rrrrr.+r.r.....rr.r+r+....r.r...rrrr++.
<i>Torilis japonica</i>	+.11r+.1...r.1.+..+.1.r.+r.+r.r.r.r...
<i>Anthriscus sylvestris</i>	r.....+.++r+.rrr.r.+r.r.r.r.r...+.....
<i>Viburnum opulus</i>	r...r.+..+r+.rr.+r...r.....r.....
<i>Prunus padus</i>	r+r.r...r.....rr.r.+r.r.....r...
<i>Carduus crispus</i>	r+r+.1...112+r+r.....r
<i>Rosa canina</i> agg.	r...r...r.rr...rr+.r.rrr.....
<i>Stachys sylvatica</i>	..r...+.r+.....+.r.....+.r.....
<i>Rumex obtusifolius</i> (S)	r...r.....r+.....rr+.r...
<i>Arrhenatherum elatius</i>	r.r.r.....r.r.rr.....
<i>Lythrum salicaria</i> (S)	r.r.r.r...+.....
<i>Ulmus laevis</i>	r...r.....r.....r.....r.
<i>Aegopodium podagraria</i>	..r.+.....r.....r.....
<i>Moehringia trinervia</i>	r.....r.....+.r...
<i>Fraxinus pennsylvanica</i>	r.rr.....r.....
<i>Silene *alba</i>	+.r.+r.....rr.r.....+
<i>Senecio sarracenicus</i>	...r..r..r.....
<i>Mycelis muralis</i>	+.r.....+.r.....
<i>Carex echinata</i>	r.r.r.....
<i>Chaerophyllum temulum</i>	r.....r...r.
<i>Brachypodium sylvaticum</i>	r.....r.r...
<i>Anthriscus cerefolium</i>	+.r.+.
<i>Hedera helix</i>	rrr..
<i>Corylus avellana</i>	...rr.....
<i>Silene vulgaris</i>	r.....r.....
<i>Chenopodium album</i> agg.	r.....r
<i>Agrostis stolonifera</i>	+.+.r.....

In one relevé only: *Cirsium palustre* 1: r; *Equisetum arvense* 4: r;
Agrostis gigantea 17: +; *Ballota nigra* subsp. *nigra* 18: r; *Galium*

Appendix 2. 45 relevés recorded in chronological order at PMP 2 (located within area of *Kráľovská lúka*). Species are marked, (S) for species typical for *Salicion albae* alliance, (N) for neophytes. Note that only summer relevés were used in the syntaxonomical analyses and analyses of trends.

<i>Phalaroides arundinacea</i> (S)	+2+211+1+1+++12232+11222212221+1++11+111+2
<i>Lysimachia nummularia</i>	2+.+++++rr+.++3+r11+112121212+1+2122322311+
<i>Urtica dioica</i>	++rr++34455542+2245442222221+1+2221..+rr12232
<i>Iris pseudacorus</i> (S)	1+.11111+1r+++222+rr+r2111111+++r+++r+rrrrr..
<i>Leucojum aestivum</i> (S)	+121332r11112111+1.1+2.21213r23313.31413+3142
<i>Aster lanceolatus</i> (N)	r+++11+.+r..+r1r+121r..+++++rrrrrrr++++1111++
<i>Galium palustre</i> (S)	2+131111r++...+1++...r.+1+++++1111+..1+122r+1
<i>Myosotis laxiflora</i> (S)	+++1rr++r.....+21.....+1+1++++.r.+++111+1...
<i>Ranunculus repens</i> (S)	r...rr+...r.r.r.r+1+.+r...r..rrr+rr+r+r+.r+1+.
<i>Equisetum arvense</i>	r+..rr.....r.r..r.r....r.rrrrrrrr.r+rrrrrrr.r.
<i>Solanum dulcamara</i> (S)	.+.rrrrrrrrr.+++r+r2...r+.r..r.....rrrrr
<i>Carex acuta</i>	1++111+1+r.r.r.r++.....+1+1+.....r.....r+
<i>Rumex obtusifolius</i> (S)	+++12221++r...+1.2111.....r.r.r.....
<i>Angelica sylvestris</i>	...rr+.rr+++++r2+1r+.....r.....rr..
<i>Impatiens noli-tangere</i>	r.....+.+.r.+.r.r.....+.r.....r...r.+.
<i>Caltha palustris</i> (S)	r+++.+.r.....rr.....
<i>Cardamine dentata</i>	r+++.rr.....
<i>Rubus caesius</i>	.+.....rrrrr.rr++1++23222223242433333333333333
<i>Fraxinus pennsylvanica</i> (N)	rrrrr.r.r.r+r+rrrrrrrrrr+rrrrr+++r1
<i>Phragmites australis</i> (S)	+.3534343435342333333333323
<i>Impatiens glandulifera</i> (N)	r.+r.+1+122..121332+r323.....r1+4+
<i>Calystegia sepium</i> (S)	rr1.1+114..r1.222.222r+r.r+.+++1+
<i>Lysimachia vulgaris</i> (S)	.+.....+.+.rrr.+rlrr+r+++rr.rr
<i>Rumex conglomeratus</i>	2.....r.rrr.rrrrr.+r.r+r.
<i>Swida sanguinea</i>	r.....r.....r..rr.r.rrrrr+r+
<i>Stachys palustris</i> (S)	+.r.....r.....r.r.+r+rr+....r.r+
<i>Carex vesicaria</i>	+.r.....r.r.r.r.r.r.rrr.

In one relevé only: *Rorippa sylvestris* 48: r; *Solidago gigantea* (N) 48: r; *Sium latifolium* 49: r; *Ranunculus sceleratus* 62: r; *Veronica anagallis-aquatica* agg. 64: r; *Taraxacum* sect. *Ruderalia* 65: r; *Fallopia convolvulus* 65: r; *Aegopodium podagraria* 67: r; *Cardamine amara* 87: r; *Scrophularia nodosa* 91: r.

Relevé number	111111111111111111111111111111111111 99999990000000000111111111122222222233333 345678901234567890123456789012345678901234
Day	200111021221121101110200102210221221101120 629959353466159029259066238775300119222124
Month	00 797575847578757585858859594758486858595959
Year	99999999999999990000000000000000000011111111 012334455667899001122344556677889900112233

<i>Salix fragilis</i> (S)	2222322231333332232332221.....
<i>Populus ×canadensis</i> (N)	22222122112222122222232323.....
<i>Negundo aceroides</i> (N)	+++1+1+12+11111+1111111111.....
<i>Fraxinus pennsylvanica</i> (N)	+11++++r1.....

<i>Salix fragilis</i> (S)	...++++rrr.....
<i>Swida sanguinea</i>	+ +1+++++111+1+1111111111rrrr.....
<i>Negundo aceroides</i> (N)	1111211111111111111111111111
<i>Fraxinus pennsylvanica</i> (N)	rr++1+++..r.rrrrrrrrrrrrrrr
<i>Humulus lupulus</i> (S)	r.....+.rr.+r+rr.+.....r.
<i>Sambucus nigra</i>	rrr...rr+r++1.....

<i>Populus xcanadensis</i> (N)	1111111222
Herb layer	
<i>Urtica dioica</i>	2131324344312443r1323333332311+11223223222
<i>Aster lanceolatus</i> (N)	122+3433324222123.332333333333342312222323
<i>Rubus caesius</i> agg.	++++rr.+++1+21324+3323221312+24454544555
<i>Symphytum officinale</i> (S)	+r+r++rrrrrr++rr+++++r++rr+r+111111111
<i>Phragmites australis</i> (S)	1+1r+++r++.++rr+r+.r+r.rrrrr.r++r+r++++
<i>Negundo aceroides</i> (N)	r.++r1rr+. .r.++.rr.++r+rrrrrr+rr++r+r+r+r+
<i>Impatiens glandulifera</i> (N)	.r+1121232r11+132323222+3r321.11+.rr1r. .
<i>Glechoma hederacea</i>	+.++. .r. .1+1+223++123222232222r.++11+122
<i>Arctium lappa</i>	r.+r. .r+r++1r++112322+11111+r1+r1++
<i>Humulus lupulus</i> (S)	r.r.+r.r. .+.rr++r1r1+11211112+21+212
<i>Iris pseudacorus</i> (S)	r++1+11rr+r.r+.r.rrrrrrrrr.rrrr. .r. .
<i>Calystegia sepium</i> (S)	r.r1++r1+1.2+.1.1.2++.22321221112
<i>Galium aparine</i>	. .1. .+.+.r.3+4+5+3+35.42+.5.4242.1+11.1.
<i>Swida sanguinea</i>	. .+.r. .rr.rrrr. .r+r++++.+.+.r+r+r+++
<i>Galeopsis speciosa</i>	. .r1+1. .r. .+.r+rr.22.1.1. .1+r1+. .+++++. .
<i>Leucojum aestivum</i> (S)	+. +11r1+11.rrrr+.+.+.r.+.+rr+. . .r. .r. .
<i>Stachys palustris</i> (S)	r.r.+.+.r++.++++r+.r.+.rr+.r.rr.
<i>Angelica sylvestris</i>	. .rr+rrrr.+.+.r++rr+r+r. . .r. .r. .
<i>Poa trivialis</i>	.+.2+1. .1. .+. .2+. . .+++. .2+.1. .2r22+. .
<i>Poa palustris</i> (S)	. .+.121rr+r. .r.r. .+r.r.
<i>Lysimachia nummularia</i>	r+1+121+11+r. .rrr. .r.
<i>Solanum dulcamara</i> (S)	.+++1+++1r+. . .r. .r.
<i>Galium palustre</i> (S)	+2+11.2+1rr.
<i>Ranunculus repens</i> (S)	r.rrrr.r. .r.rr. .r. .
<i>Carex vesicaria</i>	.+r11+1++++.
<i>Rumex obtusifolius</i> (S)	r+++.++++.
<i>Impatiens noli-tangere</i>	. .rr+rr.+r.r. .
<i>Myosotis laxiflora</i> (S)	r++212+.
<i>Lythrum salicaria</i> (S)	.+++r1. .r.
<i>Impatiens parviflora</i> (N)	. .r. .r. . .r. .r.+. . .r. .
<i>Lysimachia vulgaris</i> (S)	. .+.1+rr.r.
<i>Agrostis stolonifera</i>	+. .+.+.++r.1.
<i>Persicaria mitis</i>	.+.21+++.
<i>Phalaroides arundinacea</i> (S)	. .r+r+rr.r+++. .1r. .+. .rr.
<i>Fraxinus pennsylvanica</i> (N)	rr. .rrrr. .r. .rr. .rr.rr.rrr
<i>Festuca gigantea</i>	r.+. . . .+rr+r+r. .r. .r. .r. .
<i>Solidago gigantea</i> (N)	rr. .r. .r. .r. .rr.+. .1.1
<i>Cirsium arvense</i>	r.r.+++111111r
<i>Populus xcanadensis</i>	rrrrrrrr. .
<i>Chenopodium album</i> agg.	r.rr.rr. .r. .
<i>Carduus crispus</i>	+.r.rr. .+. .
<i>Conyza canadensis</i> (N)	rr. .r. .
<i>Taraxacum</i> sect. <i>Ruderalia</i>	r. .r.r. .+.r. .r.rr. .
<i>Ficaria bulbifera</i>	. .+. .1.1. . .3.2.3. .4.4.3.2.4. . .4.24+. .
<i>Stellaria media</i>	r.r. . .r.1+1.r.1.1.+. .+. .
<i>Carex acutiformis</i> (S)	.+.r.r+r+.r. .r.
<i>Brachypodium sylvaticum</i>	r. .r.+r. .r.
<i>Fraxinus excelsior</i>	.r+r+.
<i>Sambucus nigra</i>	r.rr. .r.
<i>Rorippa amphibia</i> (S)	.++r.
<i>Mentha aquatica</i> (S)	.+.r+.
<i>Fallopia convolvulus</i>	. .r. .r.+. . . .
<i>Stenactis xannua</i> (N)	r.r.r. .
<i>Cardamine dentata</i>	+2.
<i>Carex riparia</i> (S)	.1.r
<i>Aegopodium podagraria</i>	r. .r.
<i>Myosoton aquaticum</i>	rr.
<i>Lapsana communis</i>	+r.

Tripleurospermum perforatumrr.....

In one relevé only: *Rorippa austriaca* 93: +; *Persicaria amphibia* 93: +; *Agrostis gigantea* 94: +; *Cardamine pratensis* 96: +; *Barbarea vulgaris* 96: r; *Persicaria hydropiper* (S) 97: 1; *Stachys sylvatica* 100: r; *Prunus padus* 100: r; *Mentha arvensis* 101: r; *Quercus robur* juv. 101: r; *Clematis vitalba* E2 103: r; *Carex acuta* 105: r; *Echinochloa crus-galli* 107: r; *Sonchus asper* 107: r; *Picris hieracioides* 118: r; *Barbarea stricta* 123 r; *Poa annua* 125: r; *Lactuca serriola* 125: r; *Cirsium vulgare* 125: r; *Conium maculatum* 125: r; *Capsella bursa-pastoris* 125: r; *Papaver rhoeas* 125: r; *Roegneria canina* 133: r.