

Tölgyesi et al.: Plant diversity patterns of a Hungarian steppe-wetland mosaic

Supplement E1. Species list of the studied habitat types. Values indicate the number of quadrats where the species occurred. Species in bold are included in the Red List of the Vascular Flora of Hungary (KIRÁLY 2007). MGPS: moderately grazed primary steppe; IGPS: intensively grazed primary steppe; NGPS: non-grazed primary steppe; NGSS: non-grazed secondary steppe; IGPW: intensively grazed primary wet meadow; NGPW: non-grazed primary wet meadow; NGSW: non-grazed secondary wet meadow.

Anhang E1. Artenliste der untersuchten Habitattypen. Die Werte zeigen die Anzahl der Probeflächen, in denen eine Art vorkommt, an. Fettgedruckte Arten stehen auf der Roten Liste Ungarns (KIRÁLY 2007). MGPS: Moderat beweidete primäre Steppe; IGPS: Intensiv beweidete primäre Steppe; NGPS: Unbeweidete primäre Steppe; NGSS: Unbeweidete sekundäre Steppe; IGPW: Intensiv beweidete primäre Feuchtwiese; NGPW: Unbeweidete primäre Feuchtwiese; NGSW: Unbeweidete sekundäre Feuchtwiese.

Species	IGPW	NGPW	NGSW	MGPS	IGPS	NGPS	NGSS
<i>Achillea asplenifolia</i>	89	73	41	–	–	–	1
<i>Achillea collina</i>	–	–	–	–	–	–	2
<i>Achillea pannonica</i>	–	–	–	131	105	125	10
<i>Agrostis stolonifera</i>	51	69	76	–	–	6	3
<i>Ajuga genevensis</i>	–	–	–	2	–	1	–
<i>Allium angulosum</i>	1	–	–	–	–	–	–
<i>Allium scorodoprasum</i>	–	–	–	1	–	10	–
<i>Allium vineale</i>	–	–	–	43	25	–	–
<i>Alyssum alyssoides</i>	2	–	7	43	1	–	1
<i>Ambrosia artemisiifolia</i>	–	–	–	2	–	–	–
<i>Anacamptis pyramidalis</i>	–	–	–	1	–	–	–
<i>Angelica sylvestris</i>	–	1	1	–	–	–	–
<i>Apera spica-venti</i>	–	–	–	14	–	–	–
<i>Arabis hirsuta</i>	–	–	3	–	–	–	–
<i>Arabis recta</i>	1	–	–	41	6	5	–
<i>Arenaria serpyllifolia</i>	3	–	–	116	118	61	34
<i>Asperula cynanchica</i>	–	–	–	13	–	–	–
<i>Betonica officinalis</i>	10	–	–	–	11	–	–
<i>Brachypodium pinnatum</i>	–	–	–	–	50	–	–
<i>Briza media</i>	34	24	–	15	19	1	–
<i>Bromus commutatus</i>	–	–	–	48	–	–	–
<i>Bromus hordeaceus</i>	–	–	–	16	3	1	–
<i>Bromus squarrosus</i>	–	–	–	2	–	–	–
<i>Caltha palustris</i>	–	–	10	–	–	–	–
<i>Calystegia sepium</i>	–	26	2	–	–	–	–
<i>Campanula glomerata</i>	–	1	41	–	–	–	–
<i>Carduus nutans</i>	–	–	–	–	3	–	–
<i>Carex acutiformis/riparia</i>	32	29	45	3	–	1	–
<i>Carex caryophyllea</i>	4	–	–	87	42	50	–
<i>Carex distans</i>	21	13	30	17	–	102	6
<i>Carex disticha</i>	10	1	50	–	–	–	–
<i>Carex divisa</i>	–	–	–	–	–	1	–
<i>Carex elata</i>	–	–	1	–	–	–	–
<i>Carex flacca</i>	147	111	87	15	16	52	–
<i>Carex hirta</i>	23	1	–	–	–	–	–
<i>Carex panicea</i>	6	20	9	–	–	–	–
<i>Carex praecox</i>	–	–	–	3	–	–	–
<i>Carex tomentosa</i>	14	44	–	–	–	37	–
<i>Celtis occidentalis</i>	1	–	1	–	–	–	1
<i>Centaurea jacea</i> s.l.	115	75	43	1	–	2	–
<i>Centaurea scabiosa</i> s.l.	3	–	–	99	96	137	30
<i>Cerastium semidecandrum</i>	1	–	–	129	50	11	2
<i>Cerastium vulgare</i>	10	3	–	9	–	3	–
<i>Chondrilla juncea</i>	–	–	–	–	21	–	–
<i>Chrysopogon gryllus</i>	8	–	–	45	36	22	–
<i>Cichorium intybus</i>	3	–	3	–	–	3	–
<i>Cirsium canum</i>	26	24	–	–	–	–	1
<i>Cnidium dubium</i>	3	48	–	–	–	–	–
<i>Convolvulus arvensis</i>	–	–	–	17	35	3	–
<i>Conyza canadensis</i>	–	–	–	–	–	–	1
<i>Crepis rheoadifolia</i>	–	1	–	–	37	–	–

Species	IGPW	NGPW	NGSW	MGPS	IGPS	NGPS	NGSS
Cynodon dactylon	1	–	–	87	99	21	88
Dactylis glomerata	47	24	27	98	91	98	131
Daucus carota	–	–	–	22	–	–	–
Deschampsia caespitosa	73	81	79	–	–	1	2
Dianthus pontederiae	–	–	–	51	31	–	–
Echium vulgare	–	–	–	–	4	–	–
Eleocharis uniglumis	6	42	31	–	–	–	–
Elymus repens	1	–	–	61	10	53	148
Equisetum moorei	–	–	–	20	6	–	–
Equisetum palustre	–	3	–	–	–	–	–
Equisetum ramosissimum	127	–	–	–	–	–	–
Erigeron annuus	–	–	–	3	6	–	–
Erodium cicutarium	–	–	–	–	28	–	–
Eryngium campestre	–	–	–	–	3	–	–
Erysimum diffusum	–	–	–	–	8	–	–
Euphorbia cyparissias	–	–	–	24	46	26	–
Euphorbia glareosa	–	–	–	–	13	–	–
Falcaria vulgaris	–	–	–	16	11	–	–
Festuca pratensis	91	38	72	45	9	24	80
Festuca rubra	–	–	–	–	–	54	–
Festuca pseudovina/rupicola	42	58	39	120	149	87	133
Galium mollugo	–	–	–	–	–	2	–
Galium palustre	1	54	27	–	–	–	–
Galium verum	91	36	62	95	85	133	113
Genista tinctoria	3	15	–	26	8	–	–
Gentiana pneumonanthe	–	1	–	–	–	–	–
Gleditsia triacanthos	–	–	–	2	–	–	–
Gymnadenia conopsea	3	–	–	–	–	–	–
Helictotrichon pubescens	2	–	–	44	10	–	4
Hieracium piloselloides	1	–	–	–	1	–	–
Holosteum umbellatum	–	–	–	2	–	–	–
Hypericum perforatum	–	–	–	–	–	1	–
Inula britannica	2	–	–	–	–	–	–
Iris pseudacorus	–	–	10	–	–	–	–
Iris spuria	–	–	–	–	–	1	–
Iris sibirica	2	24	–	–	–	–	–
Juglans regia	1	–	–	–	–	–	–
Juncus articulatus	25	–	7	–	–	–	–
Juncus compressus	4	10	19	–	–	–	–
Juncus effusus	1	–	–	–	–	–	–
Koeleria cristata	16	38	43	31	2	48	103
Knautia arvensis	3	2	44	54	34	47	11
Lathyrus palustris	–	25	–	–	–	–	–
Leontodon autumnalis	17	–	–	–	–	–	–
Leontodon hispidus	66	30	31	10	9	–	3
Linum catharticum	2	–	–	–	–	–	–
Linum perenne	16	–	–	45	41	18	24
Lotus corniculatus	17	26	39	31	25	41	3
Lotus tenuis	43	16	38	–	–	–	–
Lysimachia nummularia	2	–	1	–	–	–	–
Lysimachia vulgaris	29	42	48	–	–	–	–
Lythrum salicaria	12	34	19	–	–	–	–
Medicago falcata	–	–	–	59	20	9	–
Medicago lupulina	2	–	–	26	60	2	12
Mentha aquatica	26	38	65	–	–	–	–
Mentha arvensis	11	–	–	–	–	–	–
Molinia caerulea	148	143	113	6	6	10	2
Muscari comosum	–	–	–	26	20	–	–
Muscari racemosum	–	–	–	24	–	5	–
Myosotis ramosissima/stricta	–	–	–	81	2	11	–
Ononis spinosa	92	17	–	51	43	128	2
Ophrys sphegodes	–	–	–	2	–	–	–
Orchis coriophora	–	–	–	21	–	4	–
Orchis palustris	3	2	16	1	–	–	–

Species	IGPW	NGPW	NGSW	MGPS	IGPS	NGPS	NGSS
Orchis ustulata	–	–	–	1	–	–	–
Ornithogalum umbellatum	–	–	–	56	17	11	–
Papaver rhoeas	–	–	–	–	–	2	1
Pastinaca sativa	1	–	–	–	–	5	–
Peucedanum cervaria	22	–	–	–	48	–	–
Phalaris arundinacea	–	–	22	–	–	–	–
Phragmites australis	8	19	32	–	–	10	9
Petrorhagia prolifera	–	–	–	–	84	–	–
Phleum phleoides	–	–	–	13	–	–	–
Picris hieracioides	–	–	–	18	4	–	1
Pimpinella saxifraga	–	–	–	19	10	77	–
Plantago altissima	1	34	–	–	–	–	–
Plantago lanceolata	59	–	2	55	45	8	13
Plantago maritima	–	–	22	–	–	–	–
Plantago media	3	–	–	22	10	1	–
Poa palustris	–	–	5	–	–	–	–
Poa pratensis	28	49	44	88	34	105	131
Podospermum canum	–	–	–	–	20	–	–
Polygala comosa	9	2	23	7	14	6	1
Persicaria amphibia	–	–	1	–	–	–	–
Potentilla anserina	–	–	5	–	–	–	–
Potentilla arenaria	–	–	–	–	2	–	–
Potentilla erecta	13	38	–	–	–	–	–
Potentilla recta	3	–	–	–	28	–	–
Potentilla reptans	40	34	59	–	–	–	–
Prunella vulgaris	35	–	–	–	–	–	–
Pulicaria dysenterica	2	5	11	–	–	–	–
Ranunculus acris	117	84	40	36	22	12	–
Ranunculus repens	24	25	50	–	1	–	–
Rhinanthus serotinus	28	–	–	82	30	8	1
Rumex acetosa	8	–	–	7	12	1	8
Salvia pratensis	–	–	–	2	22	–	–
Sanguisorba officinalis	75	77	5	1	25	–	–
Scabiosa ochroleuca	–	–	–	6	–	–	–
Scirpoides holoschoenus	9	1	–	11	7	3	–
Schoenoplectus tabernaemontani	–	4	3	–	–	–	–
Schoenus nigricans	–	49	–	–	–	–	–
Scorzonera humilis	14	67	–	–	–	–	–
Scorzonera parviflora	11	2	–	–	–	–	–
Securigera varia	–	–	12	52	80	118	72
Senecio erucifolius	–	–	–	8	–	10	–
Serratula tinctoria	92	85	113	33	13	6	7
Silene alba	–	–	–	–	1	–	2
Silene nutans	–	–	–	7	36	37	–
Silene vulgaris	1	–	–	14	1	83	42
Succisa pratensis	124	80	14	–	–	–	–
Symphytum officinale	–	–	33	–	–	–	–
Taraxacum officinale	57	24	34	25	7	7	3
Tetragonolobus maritimus	69	54	22	17	–	–	–
Teucrium scordium	–	–	1	–	–	–	–
Thalictrum flavum	–	10	12	–	–	–	–
Thesium ramosum	–	–	–	–	–	9	–
Thlaspi perfoliatum	–	–	–	–	–	–	1
Thymus pannonicus	–	–	–	18	–	–	–
Tragopogon dubius	–	–	–	–	4	–	–
Tragopogon orientalis	–	–	–	23	38	2	–
Trifolium campestre	–	–	–	49	–	15	–
Trifolium fragiferum	7	–	–	–	–	–	–
Trifolium montanum	–	–	–	2	–	–	–
Trifolium pratense	45	7	2	5	–	–	–
Trifolium repens	–	–	–	5	–	–	–
Trigonella caerulea	–	–	–	–	–	–	20
Valerianella locusta	–	–	–	18	–	–	–
Verbascum nigrum	–	–	–	–	–	–	3

Species	IGPW	NGPW	NGSW	MGPS	IGPS	NGPS	NGSS
<i>Verbascum phoeniceum</i>	4	–	–	72	33	17	–
<i>Veronica anagallis-aquatica</i>	–	1	–	–	–	–	–
<i>Veronica arvensis/praecox</i>	–	–	–	126	20	31	36
<i>Veronica prostrata</i>	–	–	–	14	59	1	–
<i>Vicia angustifolia</i>	–	–	–	115	6	3	42
<i>Vicia cracca</i>	25	27	–	–	–	–	–
<i>Vicia villosa</i>	–	–	–	–	34	–	–
<i>Viola kitaibeliana</i>	–	–	–	9	–	–	–