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Annotated checklist of the Hungarian dendrotaxa

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Introduction

First scholar checklist of Central-European flora was compiled by EHRENDORFER (1973), in which species and subspecies of Pteridophytes, Gymnospermae and Angiospermae are listed. Presence or absence of each species in Central-European countries were also displayed as additional information. (To be noted, that regions eastward to the river Danube were not included in Central-Europe, therefore the list were not complete in the Hungarian relation.) Checklist of the Hungarian flora was gathered by SOÓ (1980), which is held a synopsis of the critical elaboration of the Hungarian flora (SOÓ, 1964-1973). Only species level taxa are included in this work, with information of their occurrences in Hungary. A simplified

version of this checklist was compiled by PRISZTER (1985). In the 1990's – both inland and abroad – checklists was brought in the centre of interest (BARTHA, 1992-93; HORVÁTH et al., 1995; BORHIDI, 1995), as they help the conservation activities, and electronic data-processing. Present study lists dendrotaxa (trees, shrubs, wooded lianas, sub-shrubs, dwarf scrubs) occurring in actual borders of Hungary. Unified and valid nomenclature are applied, additional information and concrete occurrences are included. The purpose of this list for the future is to cover a greater geographic region, the whole territory of the Carpathian-Pannon region. Marks symbolizing the occurrence status are the same as in European flora-mapping program (JALAS & SUOMINEN, 1972), which are the followings:

Symbols

+ = extinct

x = probably extinct, or, at least, not recorded since 1950

● = native occurrence

○ = introduction (established alien)

□ = status unknown or uncertain

? = record uncertain as to identification or locality

Present territory of Hungary is covered by six geographic units (partially or wholly), their situations can be seen in Fig. 1., and are listed in Tab. 1.

Rarity of the taxa are also displayed in the checklist. Information on the life form of the species can be found in compilation of BARTHA (1999).

Tab. 1. Major geographical units of the Carpathian-Pannon region

1. Nagyalföld / Vel'ka dunajská nížina / Szerednyedunajska nizovina / Câmpia Dunării de Mijloc / Panonska nizija
2. Kisalföld és peremvidéke / Malá dunajská nížina / Kleine Ungarische Tiefebene
3. Duna-Morva-medence / Donau-Märch Becken / Moravsko-Viedenská kotlina
4. Nyugat-Dunántúl / West-Transdanubien
5. Dél-Dunántúl
6. Dráva-Száva vidék
7. Dunántúli-középhegység
8. Északnyugati-Kárpátok / Západné Karpaty / Karpaty Zachodnie / Westkarpathen
- 8.a. Északi-középhegység / Matransko-slanská hornatina
- 8.b. Belső-Északnyugati Kárpátok / Vnúťorné Západné Karpaty / Wewnetrzne Karpaty Zachodnie
- 8.c. Külső-Északnyugati-Kárpátok / Vonkajšie Západné Karpaty / Zewnetrzne Karpaty Zachodnie
9. Északkeleti-Kárpátok / Východné Karpaty / Karpaty Wschodnie / Szhidni Karpati / Carpații Orientali – grupa nordică
10. Erdélyi-szigethegység / Munții Apuseni
11. Erdélyi-medence / Depresiunea Transilvaniei
12. Keleti-Kárpátok / Carpații Orientali – grupa centrală și sudică
13. Déli-Kárpátok / Carpații Meridionali
14. Bánsági-hegyvidék / Carpații Banatului
15. Elő-Kárpátok / Subcarpații
16. Kárpátmellék / Vněkarpatské sníženiny / Podkarpacie / Prikarpatya
17. Moldvai-hátság / Podișul Moldovei
18. Géta-hátság / Podișul Getic
19. Román-alföld / Câmpia Română
20. Duna-deltavidék / Delta Dunării / Delta Dunaja

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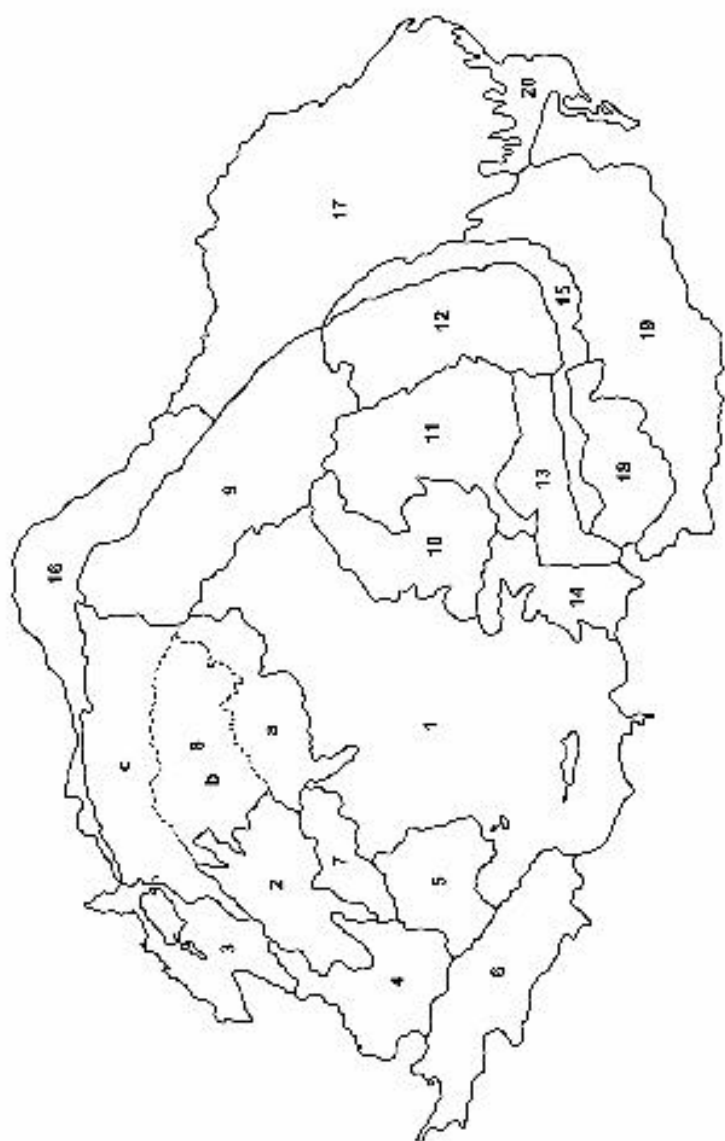


Fig. 1. Major geographical units of the Carpathian-Pannon region

Taxon (species / subspecies)		Region						Notes
		1	2	4	5	7	8a	
<i>Abies alba</i> MILLER				□				
<i>Acer campestre</i> L.		●	●	●	●	●	●	
<i>Acer negundo</i> L.		○	○	○	○	○	○	
<i>Acer platanoides</i> L.		○	○	□	●	●	●	
<i>Acer pseudoplatanus</i> L.		○	○	●	●	●	●	
<i>Acer tataricum</i> L.		●	●	□	●	●	●	
<i>Ailanthus altissima</i> (MILL.) SWINGLE		○	○	○	○	○	○	
<i>Alnus glutinosa</i> (L.) GAERTNER		●	●	●	●	●	●	
<i>Alnus incana</i> (L.) MOENCH		●	●	●	●		●	
<i>Alnus viridis</i> (CAHIX) DC.				●				
<i>Amelanchier ovalis</i> MEDICUS						●		
<i>Amorpha fruticosa</i> L.		○	○	○	○	○	○	
<i>Amygdalus nana</i> L.		●			●	●	●	
<i>Andromeda polifolia</i> L.						+		
<i>Bassia prostrata</i> (L.) A. J. SCOTT		●						
<i>Berberis vulgaris</i> L.		●	●	●	●	●	●	
<i>Betula pendula</i> ROTH		●	●	●	●	●	●	
<i>Betula pubescens</i> EHRH.		●	●	●	●	●	●	
<i>Calluna vulgaris</i> (L.) HULL.				●	●	●	●	5: rare
<i>Carpinus betulus</i> L.		●	●	●	●	●	●	1: rare
<i>Carpinus orientalis</i> MILLER						●		7: rare
<i>Castanea sativa</i> MILLER				□	□	○	○	
<i>Celtis occidentalis</i> L.		○	○		○	○	○	
<i>Cercasus avium</i> (L.) MOENCH		●	●	●	●	●	●	
<i>Cercasus fruticosa</i> (PALLAS) WORONOW		●	●	●	●	●	●	
<i>Cercasus mahaleb</i> (L.) MILLER						●	●	
<i>Chamaecytisus albus</i> (JACQ.) ROTHM.							●	

Taxon (species / subspecies)	Region							Notes
	1	2	4	5	7	8a		
<i>Chamaecytisus austriacus</i> (L.) LINK	●	●	●	●	●	●	4: rare	
<i>Chamaecytisus ciliatus</i> (WAHLENB.) ROTHM.								
<i>Chamaecytisus heuffelii</i> (WIERZB.) ROTHM.				●				
<i>Chamaecytisus hirsutus</i> (L.) LINK		●	●	●	●	●		
<i>Chamaecytisus ratisbonensis</i> (SCHAEFFER) ROTHM.	●	●	●	●	●	●		
<i>Chamaecytisus supinus</i> (L.) LINK	●	●	●	●	●	●	1,2: rare	
<i>Chamaespartium sagittale</i> (L.) P. GIBBS.		●	●	●	●	●		
<i>Chimaphila umbellata</i> (L.) W. BARTON			●			●		
<i>Clematis alpina</i> (L.) MILLER						●		
<i>Clematis vitalba</i> L.	●	●	●	●	●	●		
<i>Colutea arborescens</i> L.	?	?	●	●	●	●		
<i>Cornus mas</i> L.	●	●	●	●	●	●		
<i>Cornus sanguinea</i> L.	●	●	●	●	●	●		
<i>Coronilla emerus</i> L.				●	●		5: rare	
<i>Coronilla vaginalis</i> LAM.					●			
<i>Corylus avellana</i> L.	●	●	●	●	●	●		
<i>Cotinus coggygria</i> SCOP.				●	●	●		
<i>Cotoneaster integerrimus</i> MEDICUS			●	+	●	●		
<i>Cotoneaster niger</i> (THUNB.) FRIES			?		●	●		
<i>Cotoneaster tomentosus</i> (AIT.) LINDL.				?	●			
<i>Crataegus calycina</i> PETERM.			●		●	●		
<i>Crataegus laevigata</i> (POIRET) DC.	●	●	●	●	●	●		
<i>Crataegus monogyna</i> JACQ.	●	●	●	●	●	●		
<i>Crataegus nigra</i> WALDST. et KIT.	●							
<i>Cytisus procumbens</i> (WALDST. et KIT.) SPRENGEL					●	●		

Taxon (species / subspecies)		Region							Notes
		1	2	4	5	7	8a		
<i>Daphne cneorum</i> L.									
<i>ssp. arbusculoides</i> (TUZSON) SOÓ				●					
<i>ssp. cneorum</i>		+	●		?	●	●	2: rare, 8a: rare	
<i>Daphne laureola</i> L.						●	?		
<i>Daphne mezereum</i> L.		●		●	●	●	●	1: rare	
<i>Elaeagnus angustifolia</i> L.		○	○	○	○	○	○		
<i>Ephedra distachya</i> L.		●			?	●		7: rare	
<i>Euonymus europaeus</i> L.		●	●	●	●	●	●		
<i>Euonymus verrucosus</i> SCOP.		●	●	●	●	●	●		
<i>Fagus sylvatica</i> L.		●	●	●	●	●	●	1,2: rare	
<i>Frangula alnus</i> MILLER		●	●	●	●	●	●		
<i>Fraxinus angustifolia</i> VAHL.									
<i>ssp. pannonica</i> SOÓ et SIMON		●	●		●				
<i>Fraxinus excelsior</i> L.			●	●	●	●	●		
<i>Fraxinus ornus</i> L.				○	●	●	●		
<i>Fraxinus pennsylvanica</i> MARSH.		○	○	○	○	○	○		
<i>Fumana procumbens</i> (DUNAL) GREN. et GODRON		●	●	●	●	●	●		
<i>Genista germanica</i> L.			●	●	●	●	●		
<i>Genista ovata</i> W. et K.				●	●	●	●		
<i>Genista pilosa</i> L.				●	●	●	●		
<i>Genista tinctoria</i> L.		●	●	●	●	●	●		
<i>Globularia cordifolia</i> L.				●				4: only 1 locality	
<i>Hedera helix</i> L.		●	●	●	●	●	●		
<i>Helianthemum canum</i> (L.) BAUMG.				●	●	●	●		
<i>Helianthemum nummularium</i> (L.) MILLER									
<i>Helianthemum ovatum</i> (VIV.) DUN.		●	●	●	●	●	●		
<i>Hippophaë rhamnoides</i> L.		●	+	+				1: only 1 locality	

Taxon (species / subspecies)	Region							Notes
	1	2	4	5	7	8a		
<i>Juniperus communis</i> L.	●	●	●	●	●	●	●	
<i>Krascheninnikovia ceratoides</i> (L.) GUELDEST.	+							
<i>Laburnum anagyroides</i> MEDICUS			○	□	○	○		
<i>Larix decidua</i> MILLER			□					
<i>Lembotropsis nigricans</i> (L.) GRISEB.	●	●	●	●	●	●	1,2: rare	
<i>Ligustrum vulgare</i> L.	●	●	●	●	●	●		
<i>Lonicera caprifolium</i> L.			○	●	●	●		
<i>Lonicera nigra</i> L.						●		
<i>Lonicera xylosteum</i> L.		●	●	●	●	●	2: rare	
<i>Loranthus europaeus</i> JACQ.	●	●	●	●	●	●		
<i>Lycium barbarum</i> L.	○	○	○	○	○	○		
<i>Malus dasiphylla</i> BORKH.	●				●			
<i>Malus sylvestris</i> MILLER	●	●	●	●	●	●		
<i>Morus alba</i> L.	○	○		○				
<i>Myricaria germanica</i> (L.) DESV.	+	+	+	●				
<i>Ononis arvensis</i> L.	●	●	●	●	●	●		
<i>Ononis spinosa</i> L.	●	●	●	●	●	●		
<i>Orthilia secunda</i> (L.) HOUSE	○		●	●	●	●		
<i>Ostrya carpinifolia</i> SCOP.				+				
<i>Padus avium</i> (L.) MILLER	●	●	●	●	●	●		
<i>Parthenocissus inserta</i> (KERN.) FRITSCH.	○	○	○	○	○	○		
<i>Pdus serotina</i> (EHRH.) BORKH.	○	○	○	○	○	○		
<i>Picea abies</i> (L.) KARSTEN	○	○	□	○	○	○		
<i>Pinus nigra</i> ARNOLD	○	○	○	○	○	○		
<i>Pinus sylvestris</i> L.	○	○	●	○	○	○		
<i>Populus alba</i> L.	●	●	●	●	●	●		
<i>Populus nigra</i> ARNOLD	●	●	●	●	●	●		

Taxon (species / subspecies)	Region							Notes
	1	2	4	5	7	8a		
<i>Populus tremula</i> L.	●	●	●	●	●	●	●	
<i>Prunus spinosa</i> L.	●	●	●	●	●	●	●	
<i>Ptelea trifoliata</i> L.	○							
<i>Pyrus austriaca</i> A. KERNER			□					
<i>Pyrus magyarica</i> TERPÓ					●			
<i>Pyrus nivalis</i> JACQ.			●		●	●	●	
<i>Pyrus pyrastrer</i> BURGSD.	●	●	●	●	●	●	●	
<i>Quercus cerris</i> L.	○	●	●	●	●	●	●	
<i>Quercus dalechampii</i> TEN.			●	●	●	●	●	
<i>Quercus frainetto</i> TEN.			○	○	○	○	○	
<i>Quercus petraea</i> (MATTUSCHKA) LIEBL.			●	●	●	●	●	
<i>Quercus polycarpa</i> SCHUR.			●	●	●	●	●	
<i>Quercus pubescens</i> WILLD.	●	●	●	●	●	●	1: rare, 2: rare	
<i>Quercus robur</i> L.	●	●	●	●	●	●	●	
<i>Quercus virgiliana</i> (TEN.) TEN.	●	●	●	●	●	●	1: rare, 2: rare	
<i>Rhamnus catharticus</i> L.	●	●	●	●	●	●	●	
<i>Rhamnus saxatilis</i> JACQ.			●					
<i>Ribes alpinum</i> L.					●	●	●	
<i>Ribes aureum</i> PURSCH	○							
<i>Ribes nigrum</i> L.	□	●	□	□		□		
<i>Ribes petraeum</i> WULFEN						+		
<i>Ribes rubrum</i> L. ssp. <i>syvestre</i> (LAM.) SYME	□	□	□	□	□	□		
<i>Ribes uva-crispa</i> L.		●	●	●	●	●	2: rare	
<i>Robinia pseudoacacia</i> L.	○	○	○	○	○	○		
<i>Rosa agrestis</i> SAVI	●	●	●	●	●	●	●	
<i>Rosa arvensis</i> HUDS.	●				●	●	●	
<i>Rosa caesia</i> SM. ex SOW.	●					●	1: rare	

Taxon (species / subspecies)	Region							Notes
	1	2	4	5	7	8a		
<i>Rosa canina</i> L.	●	●	●	●	●	●	●	
<i>Rosa caryophyllacea</i> BESS.								
<i>Rosa corymbifera</i> BORKH.	●	●	●	●	●	●	●	
<i>Rosa dumalis</i> BECHST.	●		●		●	●	●	
<i>Rosa elliptica</i> TAUSCH	●				●	●	●	
<i>Rosa gallica</i> L.	●	●	●	●	●	●	●	
<i>Rosa gizellae</i> BORB.							8a: only 1 locality	
<i>Rosa glauca</i> POURRET							8a: only 1 locality	
<i>Rosa hungarica</i> (BORB.) DEGEN					●	●	8a: rare	
<i>Rosa inodora</i> Fr. em. KLÁST.	●	●	●				4: only 1 locality	
<i>Rosa kmetiana</i> BORB.						●	8a: only 1 locality	
<i>Rosa lvescens</i> BESS.	●	●	●	●	●	●		
<i>Rosa micrantha</i> Sm. in Sow.	●	●	●	●	●	●	1: only 1 locality	
<i>Rosa obtusifolia</i> Desv.	?	?	?	?	?	?		
<i>Rosa pendulina</i> L.			●			●		
<i>Rosa polyacantha</i> (BORB.) DEGEN				●	●		5: rare	
<i>Rosa rubiginosa</i> L.	●	●	●	●	●	●		
<i>Rosa scabriuscula</i> Sm.						●	8a: only 1 locality	
<i>Rosa sherardii</i> DAVIES	●						1: only 1 locality	
<i>Rosa spinosissima</i> L.	●		●	●	●	●		
<i>Rosa stylosa</i> Desv.						●	8a: only 1 locality	
<i>Rosa subcanina</i> (CHRIST) DALLA TORRE et SARNTH.			?	?	?	?		
<i>Rosa subcollina</i> (CHRIST) DALLA TORRE et SARNTH.	●		●		●	●		
<i>Rosa szaboi</i> (BORB.) FACSAR				●	●		5,7: rare	
<i>Rosa tomentosa</i> Sm.			●	●	●	●	7: rare	
<i>Rosa villosa</i> L. var. <i>sancti-andreae</i> (DEG. et TRTM.)	□				□		1,7: only 1-1 locality	
<i>Rosa zagrebienensis</i> VUKOT. et H. BR. ex KERN.			●	●	●			

Taxon (species / subspecies)		Region						Notes
		1	2	4	5	7	8a	
<i>Rosa zalana</i> WIES.				●	●	●	●	4: rare
<i>Rubus caesius</i> L.		●	●	●	●	●	●	
<i>Rubus canescens</i> DC.				●	●	●	●	
<i>Rubus fruticosus</i> L. agg.		●	●	●	●	●	●	1: rare
<i>Rubus idaeus</i> L.		●	●	●	●	●	●	1: rare
<i>Rubus saxatilis</i> L.						●	●	
<i>Ruscus aculeatus</i> L.				+	●	●		
<i>Ruscus hypoglossum</i> L.				●	●	●		
<i>Salix alba</i> L.		●	●	●	●	●	●	
<i>Salix aurita</i> L.		●	●	●	●	●	●	
<i>Salix caprea</i> L.		●	●	●	●	●	●	
<i>Salix cinerea</i> L.		●	●	●	●	●	●	
<i>Salix elaeagnos</i> SCOP.		●	●	●	●		●	
<i>Salix fragilis</i> L.		●	●	●	●	●	●	
<i>Salix nigricans</i> SM.		+	+					
<i>Salix pentandra</i> L.		●	+			+	+	
<i>Salix purpurea</i> L.		●	●	●	●	●	●	
<i>Salix rosmarinifolia</i> L.		●	●	●	●	●	●	
<i>Salix triandra</i> L.		●	●	●	●	●	●	
<i>Salix viminalis</i> L.		●	●	●	●	●	●	
<i>Sambucus nigra</i> L.		●	●	●	●	●	●	
<i>Sambucus racemosa</i> L.				●	●		●	5: rare
<i>Sorothamnus scoparius</i> (L.) WIMMER		○	○	□	○	○	○	
<i>Solanum dulcamara</i> L.		●	●	●	●	●	●	
<i>Sorbus aria</i> (L.) CRANTZ				●	●	●	●	
<i>Sorbus aucuparia</i> L.				●	●	●	●	
<i>Sorbus austriaca</i> (G. BECK) HEDL. ssp. <i>hazslinszkyana</i> Soó							●	8a: rare

Taxon (species / subspecies)	Region							Notes
	1	2	4	5	7	8a		
<i>Sorbus domestica</i> L.			□	□	□	□		
<i>Sorbus graeca</i> (SPACH) KOTSCHY					●	●	●	
<i>Sorbus torminalis</i> (L.) CRANTZ	●	●	●	●	●	●	1,2: rare	
<i>Sorbus torminalis</i> x <i>Sorbus aria-graeca</i>					●			
<i>Spiraea crenata</i> L.	+					+		
<i>Spiraea media</i> FR. SCHMIDT	●			●	●	●	1: rare	
<i>Spiraea salicifolia</i> L.				□		+		
<i>Staphylea pinnata</i> L.	●	●	●	●	●	●		
<i>Syringa vulgaris</i> L.					○	○		
<i>Taxus baccata</i> L.					●	●	7,8a: rare	
<i>Teucrium chamaedrys</i> L.	●	●	●	●	●	●		
<i>Teucrium montanum</i> L.	●	●	●	●	●	●	1: rare	
<i>Teucrium scorodonia</i> L.			●				4: only 1 locality	
<i>Tilia cordata</i> MILLER	●	●	●	●	●	●		
<i>Tilia platyphyllos</i> SCOP.				●	●	●		
<i>Tilia tomentosa</i> MOENCH	●			●			1: rare	
<i>Ulmus glabra</i> HUDSON	●	●	●	●	●	●		
<i>Ulmus laevis</i> PALLAS	●	●	●	●	●	●		
<i>Ulmus minor</i> MILLER	●	●	●	●	●	●		
<i>Ulmus procera</i> SALISB.			●	●	●	●		
<i>Vaccinium myrtillus</i> L.			●		●	●		
<i>Vaccinium oxycoccos</i> L.	●				+			
<i>Vaccinium vitis-idaea</i> L.			●	●		●		
<i>Viburnum lantana</i> L.	●	●	●	●	●	●		
<i>Viburnum opulus</i> L.	●	●	●	●	●	●		

Taxon (species / subspecies)	Region							Notes
	1	2	4	5	7	8a		
<i>Viscum album</i> L.	●	●	●	●	●	●	●	
ssp. <i>abietis</i> (WIESB.) ABROM.								
ssp. <i>album</i>								
ssp. <i>austriacum</i> (WIESB.) VOLLM.								
<i>Vitis riparia</i> MICHX.	○							
<i>Vitis rupestris</i> SCHEELE							○	
<i>Vitis sylvestris</i> C. C. GMELIN	●	●		●	●	●	●	

