

CONVENTION ON INTERNATIONAL TRADE IN ENDANGERED SPECIES  
OF WILD FAUNA AND FLORA

---



Twenty-fourth meeting of the Plants Committee  
Geneva (Switzerland), 20, 21 and 23-26 July 2018

CITES-APPENDICES FLORA WITH SPECIES NUMBERS OF HIGHER TAXA

This document has been submitted by Germany in relation to agenda item 27 on *Report of the specialist on botanical nomenclature*.\*

---

\* *The geographical designations employed in this document do not imply the expression of any opinion whatsoever on the part of the CITES Secretariat (or the United Nations Environment Programme) concerning the legal status of any country, territory, or area, or concerning the delimitation of its frontiers or boundaries. The responsibility for the contents of the document rests exclusively with its author.*

# CITES-Appendices Flora with Species Numbers of Higher Taxa

CoP17, Johannesburg, 2016

Calculation of CITES plant species numbers

The species number for the higher taxon listings were mainly taken from the official references listed in Res. Conf. 12.11 Rev. CoP 17. For some plant groups more up-to-date figures were used (e.g. orchids).

Taxa = Number of species in the higher taxon listed in the Appendix

Prot. = Number of protected species in this taxon. Sometimes lower than the previous figure because of unlisted species (e.g. Euphorbia) or other species listed in App. I (e.g. Cycadaceae).

App	Annot	Taxon listed	Prot.	Taxa	Literature Reference
<b>AGAVACEAE</b>					
I		Agave parviflora	1		
II	#4	Agave victoriae-reginae	1		
II		Nolina interrata	1		
II		Yucca queretaroensis	1		
<b>AMARYLLIDACEAE</b>					
II	#4	Galanthus spp.	18	18	Davis, A.P., McGough, H.N., Mathew, B. & Grey-Wilson, C. (1999): CITES bulb checklist for the genera Cyclamen, Galanthus and Sternbergia. Royal Botanic Gardens, Kew.
II	#4	Sternbergia spp.	8	8	Davis, A.P., McGough, H.N., Mathew, B. & Grey-Wilson, C. (1999): CITES bulb checklist for the genera Cyclamen, Galanthus and Sternbergia. Royal Botanic Gardens, Kew.
<b>ANACARDIACEAE</b>					
II		Operculicarya decaryi	1		
II		Operculicarya hyphaenoides	1		
II		Operculicarya pachypus	1		
<b>APOCYNACEAE</b>					
II	#9	Hoodia spp.	12	12	Germishuizen, G. & Meyer, N.L. (2003): Plants of Southern Africa. An annotated checklist. Strelitzia 14: 1-1231.
I		Pachypodium ambongense	1		
I		Pachypodium baronii	1		
I		Pachypodium decaryi	1		
II	#4	Pachypodium spp.	17	20	Lüthy, J.M. (2001): An update and supplement to the CITES Aloe & Pachypodium checklist. CITES Management Authority of Switzerland, Bern. Retrieved from <a href="http://www.cites.org/common/docs/Res/12_11/Aloe_&amp;_Pachypodium_Luthy.pdf">http://www.cites.org/common/docs/Res/12_11/Aloe_&amp;_Pachypodium_Luthy.pdf</a> , viewed: 26.03.2008.
II	#2	Rauvolfia serpentina	1		
<b>ARALIACEAE</b>					
II	#3	Panax ginseng	1		Only the population of the Russian Federation; no other population is included in the Appendices
II	#3	Panax quinquefolius	1		
<b>ARAUCARIACEAE</b>					
I		Araucaria araucana	1		
<b>ASPARAGACEAE</b>					
II		Beaucarnea spp.	11	11	Mexico (2016): CITES Proposal. Incluir al género Beaucarnea (Lemaire, 1861) en el Apéndice II de la CITES.

**BERBERIDACEAE**

II	#2	Podophyllum hexandrum		1	
----	----	-----------------------	--	---	--

**BROMELIACEAE**

II	#4	Tillandsia harrisii		1	
----	----	---------------------	--	---	--

II	#4	Tillandsia kammii		1	
----	----	-------------------	--	---	--

II	#4	Tillandsia xerographica		1	
----	----	-------------------------	--	---	--

**CACTACEAE**

I		Ariocarpus spp.		6	6	Hunt, D. (1999): CITES Cactaceae checklist. 2nd edition. Royal Botanic Gardens, Kew.
---	--	-----------------	--	---	---	--

I		Astrophytum asterias		1		
---	--	----------------------	--	---	--	--

I		Aztekium ritteri		1		
---	--	------------------	--	---	--	--

II	#4	CACTACEAE spp.	Except the species included in Appendix I and except Pereskia spp., Peresklopsis spp. and Quiabentia spp.	1201	1306	Hunt, D. (1999): CITES Cactaceae checklist. 2nd edition. Royal Botanic Gardens, Kew.
----	----	----------------	---	------	------	--

I		Coryphantha werdermannii		1		
---	--	--------------------------	--	---	--	--

I		Discocactus spp.		7	7	Hunt, D. (1999): CITES Cactaceae checklist. 2nd edition. Royal Botanic Gardens, Kew.
---	--	------------------	--	---	---	--

I		Echinocereus ferreirianus subsp. lindsayi		1		
---	--	---	--	---	--	--

I		Echinocereus schmollii		1		
---	--	------------------------	--	---	--	--

I		Escobaria minima		1		
---	--	------------------	--	---	--	--

I		Escobaria sneedii		1		
---	--	-------------------	--	---	--	--

I		Mammillaria pectinifera	Includes ssp. solisioides)	1		
---	--	-------------------------	----------------------------	---	--	--

I		Melocactus conoideus		1		
---	--	----------------------	--	---	--	--

I		Melocactus deinacanthus		1		
---	--	-------------------------	--	---	--	--

I		Melocactus glaucescens		1		
---	--	------------------------	--	---	--	--

I		Melocactus paucispinus		1		
---	--	------------------------	--	---	--	--

I		Obregonia denegrii		1		
---	--	--------------------	--	---	--	--

I		Pachycereus militaris		1		
---	--	-----------------------	--	---	--	--

I		Pediocactus bradyi		1		
---	--	--------------------	--	---	--	--

I		Pediocactus knowltonii		1		
---	--	------------------------	--	---	--	--

I		Pediocactus paradinei		1		
---	--	-----------------------	--	---	--	--

I		Pediocactus peeblesianus		1		
---	--	--------------------------	--	---	--	--

I		Pediocactus sileri		1		
---	--	--------------------	--	---	--	--

I		Pelecypora spp.		2	2	Hunt, D. (1999): CITES Cactaceae checklist. 2nd edition. Royal Botanic Gardens, Kew.
---	--	-----------------	--	---	---	--

I		Sclerocactus blainei		1		
---	--	----------------------	--	---	--	--

I		Sclerocactus brevihamatus subsp. tobuschii		1		
---	--	--	--	---	--	--

I		Sclerocactus brevispinus		1		
---	--	--------------------------	--	---	--	--

I		Sclerocactus cloverae		1		
---	--	-----------------------	--	---	--	--

I		Sclerocactus erectocentrus		1		
---	--	----------------------------	--	---	--	--

I		Sclerocactus glaucus		1		
---	--	----------------------	--	---	--	--

I		Sclerocactus mariposensis		1		
---	--	---------------------------	--	---	--	--

I		Sclerocactus mesae-verdae		1		
---	--	---------------------------	--	---	--	--

I		Sclerocactus nyensis		1		
---	--	----------------------	--	---	--	--

App	Annot	Taxon listed	Prot.	Taxa	Literature Reference
I		<i>Sclerocactus papyracanthus</i>	1		
I		<i>Sclerocactus pubispinus</i>	1		
I		<i>Sclerocactus sileri</i>	1		
I		<i>Sclerocactus wetlandicus</i>	1		
I		<i>Sclerocactus wrightiae</i>	1		
I		<i>Strombocactus</i> spp.	1	1	Hunt, D. (1999): CITES Cactaceae checklist. 2nd edition. Royal Botanic Gardens, Kew.
I		<i>Turbinicarpus</i> spp.	23	23	Hunt, D. (1999): CITES Cactaceae checklist. 2nd edition. Royal Botanic Gardens, Kew.
I		<i>Uebelmannia</i> spp.	3	3	Hunt, D. (1999): CITES Cactaceae checklist. 2nd edition. Royal Botanic Gardens, Kew.
<b>CARYOCARACEAE</b>					
II	#4	<i>Caryocar costaricense</i>	1		
<b>COMPOSITAE (Asteraceae)</b>					
I		<i>Saussurea costus</i>	1		
<b>CUCURBITACEAE</b>					
II		<i>Zygosicyos pubescens</i>	1		
II		<i>Zygosicyos tripartitus</i>	1		
<b>CUPRESSACEAE</b>					
I		<i>Fitzroya cupressoides</i>	1		
I		<i>Pilgerodendron uviferum</i>	1		
<b>CYATHEACEAE</b>					
II	#4	<i>Cyathea</i> spp.	620	620	Mabberley, D.J. (1997): The plant-book. 2nd edition. University Press, Cambridge.
<b>CYCADACEAE</b>					
II	#4	CYCADACEAE spp.	106	106	Rutherford, C., Donaldson, J., Hudson, A., McGough, H.N., Sajeve, M. Schippmann, U. & Tse-Laurence, M. (2013): CITES and cycads. A user's guide. Kew Publishing, Kew.
I		<i>Cycas beddomei</i>	1		
<b>DICKSONIACEAE</b>					
II	#4	<i>Cibotium barometz</i>	1		
II	#4	<i>Dicksonia</i> spp.	4	20	Anon. (s.dat.): <i>Dicksonia</i> species of the Americas. Unpublished report for BfN, s.loc.
<b>DIDIEREACEAE</b>					
II	#4	DIDIEREACEAE spp.	11	11	Mabberley, D.J. (1997): The plant-book. 2nd edition. University Press, Cambridge.
<b>DIOSCOREACEAE</b>					
II	#4	<i>Dioscorea deltoidea</i>	1		
<b>DROSERACEAE</b>					
II	#4	<i>Dionaea muscipula</i>	1		
<b>EBENACEAE</b>					
II	#5	<i>Diospyros</i> spp.	84	84	Madagascar (2013): CITES Proposal. Inclusion of the <i>Diospyros</i> genus (Malagasy population) in Appendix II of CITES.
<b>EUPHORBIACEAE</b>					
I		<i>Euphorbia ambovombensis</i>	1		

App	Annot	Taxon listed	Prot.	Taxa	Literature Reference
I		<i>Euphorbia capsaintemariensis</i>	1		
I		<i>Euphorbia cremersii</i>	1		includes the forma <i>viridifolia</i> and the var. <i>rakotozafyi</i>
I		<i>Euphorbia cylindrifolia</i>	1		includes the ssp. <i>tuberifera</i>
I		<i>Euphorbia decaryi</i>	1		includes the vars. <i>ampanihyensis</i> , <i>robinsonii</i> and <i>spirosticha</i>
I		<i>Euphorbia francoisii</i>	1		
I		<i>Euphorbia moratii</i>	1		includes the vars. <i>antsingiensis</i> , <i>bemarahensis</i> and <i>multiflora</i>
I		<i>Euphorbia parvicyathophora</i>	1		
I		<i>Euphorbia quartziticola</i>	1		
II	#4	<i>Euphorbia</i> spp.	686	696	Carter, S. & Eggl, U. (2003): The CITES checklist of succulent <i>Euphorbia</i> taxa (Euphorbiaceae). 2nd edition. Federal Agency for Nature Conservation, Bonn.
					Succulent species only except <i>Euphorbia misera</i> and the species included in Appendix I. Artificially propagated specimens of cultivars of <i>Euphorbia trigona</i> , artificially propagated specimens of crested, fan-shaped or colour mutants of <i>Euphorbia lactea</i> , when grafted on artificially propagated root stock of <i>Euphorbia neriifolia</i> , and artificially propagated specimens of cultivars of <i>Euphorbia 'Mili'</i> when they are traded in shipments of 100 or more plants and readily recognizable as artificially propagated specimens, are not subject to the provisions of the Convention
I		<i>Euphorbia tulearensis</i>	1		
<b>FAGACEAE</b>					
III	#5	<i>Quercus mongolica</i>	1		
<b>FOUQUIERIACEAE</b>					
II	#4	<i>Fouquieria columnaris</i>	1		
I		<i>Fouquieria fasciculata</i>	1		
I		<i>Fouquieria purpusii</i>	1		
<b>GNETACEAE</b>					
III	#1	<i>Gnetum montanum</i>	1		Nepal
<b>JUGLANDACEAE</b>					
II	#4	<i>Oreomunnea pterocarpa</i>	1		
<b>LAURACEAE</b>					
II	#12	<i>Aniba rosaeodora</i>	1		
<b>LEGUMINOSAE (Fabaceae)</b>					
II	#10	<i>Caesalpinia echinata</i>	1		
I		<i>Dalbergia nigra</i>	1		

App	Annot	Taxon listed	Prot.	Taxa	Literature Reference	
II	#15	Dalbergia spp.	Except the species included in Appendix I	303	304	The Plant List. - <a href="http://www.theplantlist.org/">http://www.theplantlist.org/</a>
III		Dipteryx panamensis	Costa Rica, Nicaragua	1		
II	#15	Guibourtia demeusei		1		
II	#15	Guibourtia pellegriniana		1		
II	#15	Guibourtia tessmannii		1		
II	#5	Pericopsis elata		1		
II	#4	Platymiscium pleiostachyum		1		
II		Pterocarpus erinaceus		1		
II	#7	Pterocarpus santalinus		1		
II		Senna meridionalis		1		
<b>LILIACEAE</b>						
I		Aloe albida		1		
I		Aloe albiflora		1		
I		Aloe alfredii		1		
I		Aloe bakeri		1		
I		Aloe bellatula		1		
I		Aloe calcairophila		1		
I		Aloe compressa	Includes the vars. paucituberculata, rugosquamosa and schistophila	1		
I		Aloe delphinensis		1		
I		Aloe descoingsii		1		
I		Aloe fragilis		1		
I		Aloe haworthioides	Includes the var. aurantiaca	1		
I		Aloe helenae		1		
I		Aloe laeta	Includes the var. maniaensis	1		
I		Aloe parallelifolia		1		
I		Aloe parvula		1		
I		Aloe pillansii		1		
I		Aloe polyphylla		1		
I		Aloe rauhii		1		
II	#4	Aloe spp.	Except the species included in Appendix I. Also excludes Aloe vera, also referenced as Aloe barbadensis which is not included in the Appendices	526	548	Eggl, U. (ed.), Newton, L.E. & Rowley, G.D. (2001): CITES Aloe and Pachypodium checklist. Royal Botanic Gardens, Kew.
I		Aloe suzannae		1		
I		Aloe versicolor		1		
I		Aloe vossii		1		
<b>MAGNOLIACEAE</b>						
III	#1	Magnolia liliifera var. obovata	Nepal	1		
<b>MALVACEAE</b>						
II	#16	Adansonia grandidieri		1		

**MELIACEAE**

III	#5	<i>Cedrela fissilis</i>	Plurinational State of Bolivia, Brazil	1	
III	#5	<i>Cedrela lilloi</i>	Plurinational State of Bolivia, Brazil	1	
III	#5	<i>Cedrela odorata</i>	Brazil and the Plurinational State of Bolivia. In addition, the following countries have listed their national populations: Colombia, Guatemala and Peru	1	
II	#4	<i>Swietenia humilis</i>		1	
II	#6	<i>Swietenia macrophylla</i>	Populations of the Neotropics	1	
II	#5	<i>Swietenia mahagoni</i>		1	

**NEPENTHACEAE**

I		<i>Nepenthes khasiana</i>		1	
I		<i>Nepenthes rajah</i>		1	
II	#4	<i>Nepenthes</i> spp.	Except the species included in Appendix I	96	98 Arx, B. von, Schlauer, J. & Groves, M. (ed.) (2001): CITES carnivorous plant checklist. For the genera <i>Dionaea</i> , <i>Nepenthes</i> and <i>Sarracenia</i> . Royal Botanic Gardens, Kew.

**ORCHIDACEAE**

I		<i>Aerangis ellisii</i>		1	
I		<i>Dendrobium cruentum</i>		1	
I		<i>Laelia jongheana</i>		1	
I		<i>Laelia lobata</i>		1	
II	#4	ORCHIDACEAE spp.	Except the species included in Appendix I	26437	26567 World Checklist of Selected Plant Families, RBG Kew. <a href="http://apps.kew.org/wcsp/home.do">apps.kew.org/wcsp/home.do</a>
I		<i>Paphiopedilum</i> spp.		98	98 World Checklist of Selected Plant Families, RBG Kew. <a href="http://apps.kew.org/wcsp/home.do">apps.kew.org/wcsp/home.do</a>
I		<i>Peristeria elata</i>		1	
I		<i>Phragmipedium</i> spp.		26	26 World Checklist of Selected Plant Families, RBG Kew. <a href="http://apps.kew.org/wcsp/home.do">apps.kew.org/wcsp/home.do</a>
I		<i>Renanthera imschootiana</i>		1	

**OROBANCHACEAE**

II	#4	<i>Cistanche deserticola</i>		1	
----	----	------------------------------	--	---	--

**PALMAE (Arecaceae)**

II	#4	<i>Beccariophoenix madagascariensis</i>		1	
II	#4	<i>Dypsis decaryi</i>		1	
I		<i>Dypsis decipiens</i>		1	
II		<i>Lemurophoenix halleuxii</i>		1	
III	#13	<i>Lodoicea maldivica</i>	Seychelles	1	
II		<i>Marojejya darianii</i>		1	
II		<i>Ravenea louvelii</i>		1	
II		<i>Ravenea rivularis</i>		1	
II		<i>Satranala decussilvae</i>		1	
II		<i>Voanioala gerardii</i>		1	

**PAPAVERACEAE**

App	Annot	Taxon listed	Prot.	Taxa	Literature Reference
III	#1	Meconopsis regia	Nepal	1	
<b>PASSIFLORACEAE</b>					
II		Adenia firingalavensis		1	
II		Adenia olaboensis		1	
II		Adenia subsessilifolia		1	
<b>PEDALIACEAE</b>					
II		Uncarina grandidieri		1	
II		Uncarina stellulifera		1	
<b>PINACEAE</b>					
I		Abies guatemalensis		1	
III	#5	Pinus koraiensis	Russian Federation	1	
<b>PODOCARPACEAE</b>					
III	#1	Podocarpus neriifolius	Nepal	1	
I		Podocarpus parlatorei		1	
<b>PORTULACACEAE</b>					
II	#4	Anacampseros spp.		14	14 Rowley, G. (1995): Anacampseros, Avonia, Grahamia. A grower's handbook. British Cactus and Succulent Society, s.loc.
II	#4	Avonia spp.		10	10 Rowley, G. (1995): Anacampseros, Avonia, Grahamia. A grower's handbook. British Cactus and Succulent Society, s.loc.
II	#4	Lewisia serrata		1	
<b>PRIMULACEAE</b>					
II	#4	Cyclamen spp.		20	20 Davis, A.P., McGough, H.N., Mathew, B. & Grey-Wilson, C. (1999): CITES bulb checklist for the genera Cyclamen, Galanthus and Sternbergia. Royal Botanic Gardens, Kew.
<b>RANUNCULACEAE</b>					
II	#2	Adonis vernalis		1	
II	#8	Hydrastis canadensis		1	
<b>ROSACEAE</b>					
II	#4	Prunus africana		1	
<b>RUBIACEAE</b>					
I		Balmea stormiae		1	
<b>SANTALACEAE</b>					
II	#2	Osyris lanceolata	Populations of Burundi, Ethiopia, Kenya, Rwanda, Uganda and the United Republic of Tanzania	1	
<b>SARRACENIACEAE</b>					
I		Sarracenia oreophila		1	
I		Sarracenia rubra subsp. alabamensis		1	
I		Sarracenia rubra subsp. jonesii		0	
II	#4	Sarracenia spp.	Except the species included in Appendix I	6	8 Arx, B. von, Schlauer, J. & Groves, M. (ed.) (2001): CITES carnivorous plant checklist. For the genera Dionaea, Nepenthes and Sarracenia. Royal Botanic Gardens, Kew.
<b>SCROPHULARIACEAE</b>					



App	Annot	Taxon listed	Prot.	Taxa	Literature Reference	
II	#2	Picrorhiza kurrooa			Excludes Picrorhiza scrophulariiflora	1
<b>STANGERIACEAE</b>						
II	#4	Bowenia spp.		2		2 Rutherford, C., Donaldson, J., Hudson, A., McGough, H.N., Sajeve, M. Schippmann, U. & Tse-Laurence, M. (2013): CITES and cycads. A user's guide. Kew Publishing, Kew.
I		Stangeria eriopus		1		
<b>TAXACEAE</b>						
II	#2	Taxus chinensis		1		and infraspecific taxa of this species
II	#2	Taxus cuspidata		1		and infraspecific taxa of this species
II	#2	Taxus fuana		1		and infraspecific taxa of this species
II	#2	Taxus sumatrana		1		and infraspecific taxa of this species
II	#2	Taxus wallichiana		1		
<b>THYMELAEACEAE (Aquilariaceae)</b>						
II	#14	Aquilaria spp.		27	27	UNEP-WCMC (s.dat.): Species+. Retrieved from <a href="http://www.speciesplus.net/">http://www.speciesplus.net/</a> , viewed: 21.11.2014.
II	#4	Gonystylus spp.		20	20	Mabberley, D.J. (1997): The plant-book. 2nd edition. University Press, Cambridge.
II	#14	Gyrinops spp.		48	48	UNEP-WCMC (s.dat.): Species+. Retrieved from <a href="http://www.speciesplus.net/">http://www.speciesplus.net/</a> , viewed: 21.11.2014.
<b>TROCHODENDRACEAE (Tetracentrac</b>						
III	#1	Tetracentron sinense		1		Nepal
<b>VALERIANACEAE</b>						
II	#2	Nardostachys grandiflora		1		
<b>VITACEAE</b>						
II		Cyphostemma elephantopus		1		
II		Cyphostemma laza		1		
II		Cyphostemma montagnacii		1		
<b>WELWITSCHIAEAE</b>						
II	#4	Welwitschia mirabilis		1		
<b>ZAMIACEAE</b>						
I		Ceratozamia spp.		27	27	Rutherford, C., Donaldson, J., Hudson, A., McGough, H.N., Sajeve, M. Schippmann, U. & Tse-Laurence, M. (2013): CITES and cycads. A user's guide. Kew Publishing, Kew.
I		Encephalartos spp.		65	65	Rutherford, C., Donaldson, J., Hudson, A., McGough, H.N., Sajeve, M. Schippmann, U. & Tse-Laurence, M. (2013): CITES and cycads. A user's guide. Kew Publishing, Kew.
I		Microcycas calocoma		1		
I		Zamia restrepoi		1		
II	#4	ZAMIACEAE spp.		131	225	Rutherford, C., Donaldson, J., Hudson, A., McGough, H.N., Sajeve, M. Schippmann, U. & Tse-Laurence, M. (2013): CITES and cycads. A user's guide. Kew Publishing, Kew.
<b>ZINGIBERACEAE</b>						
II	#4	Hedychium philippinense		1		

App	Annot	Taxon listed	Prot.	Taxa	Literature Reference
II		Siphonochilus aethiopicus		1	
		Populations of Mozambique, South Africa, Swaziland and Zimbabwe			
<b>ZYGOPHYLLACEAE</b>					
II	#11	Bulnesia sarmientoi		1	
II	#2	Guaiacum spp.		5	5 Davila Aranda, P. & Schippmann, U. (2006): Lista de especies, nomenclatura y distribución en el genero Guaiacum. Medicinal Plant Conservation 12: 50. Retrieved from <a href="http://www.cites.org/common/docs/Res/12_11/Guaiacum.pdf">http://www.cites.org/common/docs/Res/12_11/Guaiacum.pdf</a> , viewed: 26.02.2008.

## CITES plant groups and species number totals

In dieser Berechnung wurde die Anzahl der Arten der in App. II geschützten Gattungen oder Familien um die Arten des Appendix I vermindert sowie um die Zahl der Arten, die explizit vom Schutz ausgenommen sind (Beispiel: Gattung Pereskia in CACTACEAE spp.)

### CITES plant species numbers by use groups

#### *Medicinal Plants*

I	1
II	109
III	2

#### *Ornamental Plants*

I	344
II	29.958
III	3

#### *Timber*

I	6
II	424
III	7

### Total plant species numbers in the Appendices

I	347
II	30.479
III	16