

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

Twelfth meeting of the Conference of the Parties
Santiago (Chile), 3-15 November 2002

Interpretation and implementation of the Convention

Other themes and issues

TRADE IN TRADITIONAL MEDICINES

1. This document has been prepared by the Secretariat.
2. Decision 11.165 directs the Secretariat to, in consultation with the Animals and Plants Committees:
 - a) *compile an inventory of operations where artificial propagation or captive breeding of CITES species is conducted for medicinal purposes;*
 - b) *develop projects aimed at assisting Parties in improving CITES implementation with regard to international trade in medicinal products derived from Appendix-II species;*
 - c) *continue developing the list of species of plants and animals and their parts traded for their medicinal properties;*
 - d) *where appropriate, incorporate in its programme for assisting Scientific Authorities the implementation of the Convention in relation to animals and plants traded for medicinal purposes; and*
 - e) *report at the 12th meeting of the Conference of the Parties on the progress made with regard to the work outlined above.*

Inventory of operations where artificial propagation or captive breeding of CITES species is conducted for medicinal purposes

3. Regarding paragraph a) of the decision, the Secretariat notes that no further information is provided concerning the intended purpose of the inventory. The Secretariat was not able to determine what the conservation benefits of such an inventory might be nor any criteria that might be considered in its compilation. There are probably a large number of small operations that occasionally breed or propagate CITES-listed species that might occasionally be used for medicinal purposes, and that are not involved in international trade. Compiling (and updating) an inventory including such operations would be a huge undertaking. The Animals and Plants Committees, when asked by the Secretariat, were not able to specify a clear purpose for, nor benefit from, compiling such an inventory. It is therefore recommended that further work on this subject not be undertaken until the exact purpose and conservation benefit of this aspect of the Decision has been clarified, and resources for its implementation have been identified.

Projects to improve CITES implementation with regard to international trade in medicinal products

4. Regarding paragraph b) of the decision, no projects were identified other than a survey of the use of musk in China by the manufacturers of traditional medicine, and of the availability of musk on traditional markets (see also Decision 11.149). This project was conducted by the Scientific Authority of China, with funds provided by the United States of America. Several other initiatives in which the Secretariat was involved were also aimed at improving the implementation of the Convention concerning groups of species that are traded for *inter alia* medicinal purposes, such as tortoises and freshwater turtles, and several species included in the Review of Significant Trade (e.g. *Saiga tatarica*, *Naja* spp.), and the conservation and monitoring of species that are currently not included in the Appendices (e.g. the Synnathidae and *Harpagophytum* spp.). The Secretariat is furthermore willing to assist any Party, if so requested, with the development of additional projects in this context.

List of species of plants and animals and their parts traded for medicinal properties

5. Regarding paragraph c) of the decision, a provisional list of species known to be used for medicinal purposes is provided in the Annexes to this document. The list of species in Annex 1 has been prepared by the Secretariat on the basis of a list of species used in traditional medicine that was compiled by the International Fund for Animal Welfare (IFAW) from a literature review¹, and included an earlier list produced by TRAFFIC. UNEP-WCMC reorganized the presentation of the list. These contributions are gratefully acknowledged. A list of CITES-listed plant species known to be traded for medicinal purposes is provided in Annex 2, based on the *Medicinal Plants Significant Trade Study* (CITES project S-109), and kindly updated by the Scientific Authority for Germany. Although not specified in Decision 11.165, the Secretariat requested UNEP-WCMC to provide a summary of trade statistics in order to obtain a preliminary indication of the level of trade in species included in each list. This initiative has generated a large volume of information and to avoid the cost of distributing a lengthy document that may primarily be of interest to specialists only, the information will instead be made available on request only.
6. The Secretariat wishes to note that these lists of species may be incomplete as the information does not seem to reflect the use of traditional medicines in all regions adequately. The existence of records of the use of a species for medicinal purposes does not necessarily imply that specimens of those species are traded internationally or that the use is contemporary. Trade in most of the species listed in Annex 1 is low, as is evident from the annual reports of the Parties for the past five years. The Plants Committee has already incorporated in its programme of work related to the review of the Appendices and the Review of Significant Trade, those species that are traded in significant quantities for medicinal (and other) purposes listed in Annex 2.
7. The Plants Committee, at its 12th meeting, Leiden, May 2002, cautioned against any duplication of effort in the compilation of lists of species traded for medicinal purposes, noting that other bodies may already have compiled similar lists of species.
8. The Animals and Plants Committees were, when asked by the Secretariat, not able to indicate a clear purpose for nor benefit from such a list. The Secretariat therefore concludes that before further work on this subject is undertaken, the purpose and conservation benefit of producing and maintaining such a list should be clarified and adequate resources for its compilation should be identified. It was suggested that an understanding of the level of trade in the species included in the list may be of value in guiding further actions, presumably actions related to the review of the listing of such species in the CITES Appendices or to the Review of Significant Trade in such species. The Secretariat wishes to note, however, that further actions by the technical committees or the Secretariat pursuant to the compilation of the list were not specified in Decision 11.165 and actions related to improving the regulation of trade of such species are already possible under other provisions, notably Resolution Conf. 8.9 (Rev.) and Resolution Conf. 11.1, Annex 2, paragraphs f), g) and h). If any other action is envisaged by the technical committees concerning species traded for medicinal purposes, the

¹ References can be provided by the Secretariat upon request.

Secretariat recommends that an appropriate proposal be made to the Conference of the Parties to obtain approval for such actions.

Incorporating the implementation of the Convention in relation to animals and plants traded for medicinal purposes in capacity-building programmes

9. Regarding paragraph d), the Secretariat will continue, within the appropriate regional context, and when specific examples are needed, to refer to species traded for medicinal purposes in its capacity-building programme for Scientific Authorities.

Conclusion

10. The Secretariat considers that the implementation of Decision 11.165 was hampered by two important factors. Firstly, a large body of work was directed to the Secretariat without any allocation of resources. No provision was made by the Conference of the Parties in the budget of the Secretariat to implement Decision 11.165 and the Secretariat was not able to recommend to the Standing Committee to assign a high priority to the implementation of this Decision at the cost of other priorities. Secondly, the exact purpose and conservation benefit of the actions to be taken under this decision were not readily apparent. It is also not clear that a focus on trade in traditional medicines in isolation from other forms of trade is justified.

Recommendation

11. The Secretariat therefore recommends that, rather than continuing with the implementation of Decision 11.165, the Conference of the Parties decide that potential concerns about the trade in traditional medicine derived from CITES-listed species be dealt with through existing processes within CITES, and primarily the Review of Significant Trade of the Animals and Plants Committees and that Decision 11.165 should be repealed.

List of animal species used in traditional medicine

Family / Higher taxon	Taxon	CITES Appendix	Part(s) used where known
Erinaceidae	<i>Atelerix frontalis</i>		
	<i>Erinaceus europaeus</i>		meat, skin, dried gallbladder
	<i>Hemiechinus auritus</i>		skin, dried gallbladder
	<i>Hemiechinus dauricus</i>		skin, dried gallbladder
Pteropodidae	<i>Pteropus</i> spp.	I/II	faeces, heart, liver
Vespertilionidae	<i>Vespertilio murinus</i>		faeces
	<i>Vespertilio superans</i>		whole body, faeces
Molossidae	<i>Tadarida brasiliensis</i>		flesh
Loridae	<i>Nycticebus</i> spp.	II	
Galagonidae	<i>Galago moholi</i>	II	
Cercopithecidae	<i>Cercopithecus albogularis</i>	II	
	<i>Colobus badius</i>	II	skin
	<i>Macaca mulatta</i>	II	flesh, bone, stone in gallbladder
	<i>Macaca</i> spp.	II	skull
	<i>Papio hamadryas ursinus</i>	II	bones and skin
	<i>Pygathrix roxellana</i>	I	fat and flesh
	<i>Cercopithecidae</i> spp.	I/II	blood, bone, brain, excrement, gall bladder, skull
Dasypodidae	<i>Cabassous centralis</i>	III	bone, flesh, heart
Manidae	<i>Manis javanica</i>	II	scales
	<i>Manis pentadactyla</i>	II	scales
	<i>Manis temminckii</i>	II	scales, blood
	Manidae spp.	II	scales
Sciuridae	<i>Sciurus vulgaris</i>		whole body
	<i>Trogopterus xanthipes</i>		faeces
Muridae	<i>Rattus norvegicus</i>		flesh or whole body, skin, liver, kidney, gallbladder, fat, faeces
	<i>Rhizomys sinensis</i>		flesh, teeth, fat
Hystricidae	<i>Hystrix africaeaustralis</i>		quills; unspecified
	<i>Hystrix brachyura</i>		quill
	<i>Hystrix cristata</i>	III	quill
	Hystricidae spp.	III	intestine, quill, stomach, tail
Erethizontidae	<i>Coendou prehensilis</i>		spines
Thryonomyidae	<i>Thryonomys swinderianus</i>		
Physeteridae	<i>Physeter catodon</i>	I	ambergris
Monodontidae	<i>Monodon monoceros</i>	II	teeth
Delphinidae	<i>Delphinus delphis</i>	II	flesh, fat

Family / Higher taxon	Taxon	CITES Appendix	Part(s) used where known
Canidae	<i>Canis latrans</i>		flesh, bones, hair
	<i>Canis lupus</i>	I/II	flesh, fat, thyroid
	<i>Canis lupus</i>	I/II	bone
	<i>Canis lupus</i>	I/II	penis
	<i>Cuon alpinus</i>	II	skin, flesh
	<i>Lycaon pictus</i>		fat
	<i>Nyctereutes procyonoides</i>		flesh
	<i>Vulpes chama</i>		
	<i>Vulpes vulpes</i>	III/not listed	heart, head, meat, liver, intestine, gallbladder, feet
Ursidae	<i>Helarctos malayanus</i>	I	gall bladder
	<i>Melursus ursinus</i>	I	gall
	Ursidae spp.	I/II	bile, bone, bones of hand, gall bladder, hair, teeth
	<i>Ursus americanus</i>	II	gall bladder
	<i>Ursus arctos</i>	I	gall bladder, gall, dried gall bladder
	<i>Ursus thibetanus</i>	I	gall bladder, gall, dried gall bladder
Procyonidae	<i>Nasua narica</i>	III	flesh, heart
	<i>Nasua nasua</i>	III	penis
Mustelidae	<i>Lutra lutra</i>	I	flesh, liver, bone, feet, gallbladder, skin and fur
	Lutrinae spp.	I/II	bladder, liver, reproductive organs, teeth
	<i>Martes zibellina</i>		tail, fur
Mustelidae	<i>Meles meles</i>		flesh, fat
	<i>Mellivora capensis</i>	III	fat
	<i>Mustela sibirica</i>	III	flesh
Viverridae	<i>Genetta genetta</i>		skin
	<i>Viverra zibetha</i>	III	meat, secretion
Hyaenidae	<i>Crocuta crocuta</i>		fat, eyebrow; hair/skin; gland paste, blood
	<i>Hyaena hyaena</i>		blood
	<i>Proteles cristatus</i>	III	
Felidae	<i>Acinonyx jubatus</i>	I	skin, fat
	<i>Leptailurus serval</i>	II	skin
	<i>Lynx rufus</i>	II	fat
	<i>Panthera leo</i>	II	faeces, skin, bone, fat
	<i>Panthera pardus</i>	I	skin, flesh, bone, fat, heart
	<i>Panthera tigris</i>	I	teeth, stomach, intestines, dried bones, kidney, gallbladder, fat, eye, sinew, nail, meat, bone, bone paste, bone powder, penis
	<i>Puma concolor</i>	I/II	fat
	Felidae spp.	I/II	bone, oil
Otariidae	<i>Arctocephalus australis</i>	II	penis

Family / Higher taxon	Taxon	CITES Appendix	Part(s) used where known
	<i>Arctocephalus pusillus</i>	II	fat, head, genitalia, penis
	<i>Callorhinus ursinus</i>		penis, testis, dried penis and testis
Phocidae	<i>Phoca vitulina</i>		fat
Elephantidae	<i>Elephas maximus</i>	I	tusk, hide, flesh, bone, gallbladder, muscle, penis, teeth, urine, skin
	<i>Loxodonta africana</i>	I/II	excrement, fat, skin, tusk, jawbone, gallstones, ivory
	Elephantidae spp.	I/II	skin
Procaviidae	<i>Dendrohyrax arboreus</i>		whole body
Dugongidae	<i>Dugong dugon</i>	I/II	teeth
Trichechidae	<i>Trichechus inunguis</i>	I	fat
Equidae	<i>Equus burchelli</i>		fat
	<i>Equus grevyi</i>	I	fat
Equidae	<i>Equus przewalskii</i>	I	flesh
	<i>Equus zebra zebra</i>	I	fat
Rhinocerotidae	<i>Ceratotherium simum</i>	I	horn
	<i>Ceratotherium simum cottoni</i>	I	horn
	<i>Diceros bicornis</i>	I	horn, hair
	<i>Rhinoceros</i> spp.	I	horn, skin
	<i>Rhinoceros unicornis</i>	I	horn
	Rhinocerotidae spp.	I	horn, blood, muscle, skin, teeth, toe
Suidae	<i>Phacochoerus aethiopicus</i>		
Hippopotamidae	<i>Hippopotamus amphibius</i>	II	fat, unspecified
Camelidae	<i>Camelus bactrianus</i>		hairs, flesh, fat, gallbladder stone, milk
Moschidae	<i>Moschus</i> spp.	I/II	musk pod, gland
	<i>Moschus berezovskii</i>	II	pod, gland, musk, dried secretion obtained from male musk gland
	<i>Moschus chrysogaster</i>	I/II	dried secretion obtained from male musk gland
	<i>Moschus moschiferus</i>	II	musk, musk pod, musk gland, dried secretion obtained from male musk gland
	<i>Moschus sifanicus</i>	I/II	dried secretion obtained from male musk gland
Cervidae	<i>Cervus eldii</i>	I	antler
	<i>Elaphurus davidianus</i>		flesh, horn, pilose antler, bone, fat
	<i>Mazama americana</i>	I	antler
	<i>Mazama gouazoupira</i>		hooves
	<i>Odocoileus virginianus</i>		antler
Giraffidae	<i>Giraffa camelopardalis</i>		tail, fat, unspecified
Bovidae	<i>Aepyceros melampus</i>		
	<i>Bos grunniens</i>		horn
	<i>Bos javanicus</i>	I	horn
	<i>Bos mutus</i>	I	horn, blood

Family / Higher taxon	Taxon	CITES Appendix	Part(s) used where known
	<i>Bos sauveli</i>	I	gall bladder, horn
	<i>Bos taurus</i>	I	bone, gall bladder, horn
Bovidae	<i>Bubalus arnee</i>	III	gall bladder, horn
	<i>Bubalus bubalis</i>		gall stone, horn, genitalia
	<i>Budorcas taxicolor</i>	II	horn
	<i>Capricornis sumatraensis</i>		bone
	<i>Cephalophus monticola</i>	II	
	<i>Cephalophus natalensis</i>		
	<i>Connochaetes gnou</i>		fat
	<i>Naemorhedus goral</i>		fat, flesh, horn, liver, blood
	<i>Naemorhedus</i> spp.		horn
	<i>Naemorhedus sumatraensis</i> <i>Neotragus moschatus</i>	I	horn, blood, gall bladder, hoof/foot, intestine, oil, skin, teeth, skull
	<i>Oreotragus oreotragus</i>		
	<i>Procapra gutturosa</i>		muscle, horn, fat
	<i>Raphicerus melanotis</i>		
	<i>Saiga tatarica</i>	II	horn
	<i>Sylvicapra grimmia</i>		
	<i>Tragelaphus oryx</i>		fat, oil
	<i>Tragelaphus scriptus</i>		
	<i>Tragelaphus strepsiceros</i>		tail bones, pelvic girdle
Struthionidae	<i>Struthio camelus</i>	I/not listed	
Rheidae	<i>Rhea americana</i>	II	fat
Spheniscidae	<i>Spheniscus demersus</i>	II	
Ardeidae	<i>Egretta garzetta</i>	III	flesh
Ciconiidae	<i>Ciconia ciconia</i>		flesh, bone
Anatidae	<i>Aix galericulata</i>		flesh
	<i>Anas platyrhynchos</i>		flesh, feather
	<i>Cairina moschata</i>	III	flesh
	<i>Cygnus cygnus</i>		fat, down
Accipitridae	<i>Aquila chrysaetos</i>	II	bone, feathers, eggs
	<i>Circus cyaneus</i>	II/III	head, flesh, bone
	<i>Terathopus ecaudatus</i>	II	unspecified, whole carcass
Falconidae	<i>Falco tinnunculus</i>	II	eggs
Phasianidae	<i>Chrysolophus pictus</i>		flesh
	<i>Pavo muticus</i>	II	end feather, gall bladder, stock of tail feather
	<i>Phasianus colchicus</i>		flesh or whole body, liver, tail feathers, brain
	<i>Syrnaticus reevesii</i>		flesh

Family / Higher taxon	Taxon	CITES Appendix	Part(s) used where known
Gruidae	<i>Grus japonensis</i>	I	flesh, bone, brain
Rallidae	<i>Rallus aquaticus</i>		flesh
Otididae	<i>Otis tarda</i>	II	flesh
Scolopacidae	<i>Tringa totanus</i>		flesh
Columbidae	<i>Columba livia</i>	III	flesh, egg
Psittacidae	<i>Psittacula alexandri</i>	II	flesh
Musophagidae	<i>Tauraco corythaix</i>	II	
Strigidae	<i>Glucidium cuculoides</i>	II	flesh
Trochilidae	<i>Eupherusa</i> spp.	II	heart
Alcedinidae	<i>Alcedo atthis</i>		whole body
Picidae	<i>Campephilus imperialis</i>	I	flesh
	<i>Picus canus</i>		flesh or whole body
Muscicapidae	<i>Turdus merula mandarinus</i>		flesh
Corvidae	<i>Corvus monedula</i>		flesh, gallbladder
	<i>Pica pica sericea</i>		flesh
Platysternidae	<i>Platysternon megacephalum</i>		whole body
Emydidae	<i>Chinemys reevesii</i>		turtle shell, flesh, blood, glue of tortoise, plastron, bile, dried plastron
	<i>Kachuga tecta</i>	I	shell
	<i>Malaclemys terrapin</i>		flesh
	<i>Morenia ocellata</i>	I	shell
Testudinidae	<i>Geochelone carbonaria</i>	II	shell
	<i>Geochelone elegans</i>	II	shell
	<i>Geochelone pardalis</i>	II	shell
	<i>Indotestudo elongata</i>	II	shell
	<i>Manouria impressa</i>	II	shell
	Testudinidae spp.	I/II	shell
Cheloniidae	<i>Caretta caretta</i>	I	blood, scale and shell
	<i>Chelonia mydas</i>	I	egg, flesh, oil, shell, fat, skin
	<i>Eretmochelys imbricata</i>	I	carapace (shell)
	Cheloniidae spp.	I	
Trionychidae	<i>Pelochelys bibroni</i>		shell, flesh, fat, gallbladder
Alligatoridae	<i>Alligator sinensis</i>	I	scale, flesh
	<i>Caiman latirostris</i>	I/II	skin
Crocodylidae	<i>Crocodylus niloticus</i>	I/II	fat, skin, oil, faeces
	<i>Crocodylus niloticus</i>	I/II	gall bladder
	<i>Crocodylus siamensis</i>	I	dried penis
	<i>Crocodylus</i> spp.	I/II	lumpy bone on top of head, bile, gall bladder, teeth
	<i>Osteolaemus tetraspis</i>	I/II	gall bladder

Family / Higher taxon	Taxon	CITES Appendix	Part(s) used where known
Agamidae	<i>Uromastix aegyptia</i>	II	extract from live animals
Chamaeleonidae	<i>Bradypodion dracamontanum</i>	II	whole body
	<i>Bradypodion nemorale</i>	II	whole body
	<i>Bradypodion setaroi</i>	II	whole body
	<i>Bradypodion thamnobates</i>	II	whole body
	Chamaeleonidae spp.	II	whole body
Iguanidae	<i>Iguana</i> spp.	II	flesh, heart
Cordylidae	<i>Cordylus giganteus</i>	II	
	<i>Cordylus tropidosternum</i>	II	
	<i>Cordylus warreni</i>	II	
Helodermatidae	<i>Heloderma horridum</i>	II	dried venom
Varanidae	<i>Varanus niloticus</i>	II	fat, unspecified
	<i>Varanus</i> spp.	II	oil
Pythonidae	<i>Python molurus</i>	I/II	gallbladder, fat, flesh
	<i>Python regius</i>	II	oil
	<i>Python reticulatus</i>	II	blood
	<i>Python sebae</i>	II	skin, backbone, bone, fat
	<i>Python</i> spp.	I/II	bone, gall bladder, oil
Boidae	<i>Boa constrictor</i>	I/II	flesh
Colubridae	<i>Elaphe carinata</i>		skin slough
	<i>Elaphe taeniurus</i>		skin slough
	<i>Enhydris chinensis</i>		skin, whole body
	<i>Ptyas korros</i>		whole body
	<i>Zaocys dhumnades</i>		whole body except intestines, skin, gall bladder, egg, fat
Elapidae	<i>Naja naja</i>	II	whole body, venom, bile
	<i>Ophiophagus hannah</i>	II	bone
Hydrophiidae	<i>Laticauda semifasciata</i>		whole body
Viperidae	<i>Crotalus durissus</i>	III	fresh/dried venom, bone, flesh, skin, fang, tail rattle
Ambystomatidae	<i>Ambystoma mexicanum</i>	II	body
Bufonidae	<i>Bufo amatolicus</i>		
	<i>Bufo boreas</i>		body
Acipenseridae	<i>Acipenser sinensis</i>	II	body, bladder
	<i>Huso dauricus</i>	II	body, liver
Pangasiidae	<i>Pangasianodon gigas</i>	I	gall bladder, pectoral spine
Syngnathidae	<i>Hippocampus histrix</i>		whole body
	<i>Hippocampus japonicus</i>		whole body
	<i>Hippocampus kelloggi</i>		whole body
	<i>Hippocampus kuda</i>		whole body

Family / Higher taxon	Taxon	CITES Appendix	Part(s) used where known
	<i>Hippocampus reidi</i>		fat
	<i>Hippocampus trimaculatus</i>		whole body
Meloidae	<i>Lytta mirifica</i>		all
Hirudinidae	<i>Hirudo medicinalis</i>	II	body
Tridacnidae	<i>Tridacna squamosa</i>	II	shell
Cnidaria	Cnidaria spp.	II	dead individuals

List of CITES-listed plant species used in traditional medicine

Family / Higher taxon	Taxon	CITES Appendix
Amaryllidaceae	<i>Galanthus nivalis</i>	II
	<i>Galanthus woronowii</i>	II
	<i>Sternbergia lutea</i>	II
Apocynaceae	<i>Rauvolfia serpentina</i>	II
Araliaceae	<i>Panax ginseng</i>	II
	<i>Panax quinquefolius</i>	II
Asphodelaceae	<i>Aloe africana</i>	II
	<i>Aloe arborescens</i>	II
	<i>Aloe aristata</i>	II
	<i>Aloe asperifolia</i>	II
	<i>Aloe barberae</i>	II
	<i>Aloe capitata</i>	II
	<i>Aloe chabaudii</i>	II
	<i>Aloe cooperi</i>	II
	<i>Aloe distans</i>	II
	<i>Aloe divaricata</i>	II
	<i>Aloe ferox</i>	II
	<i>Aloe hereroensis</i>	II
	<i>Aloe linearifolia</i>	II
	<i>Aloe macroclada</i>	II
	<i>Aloe maculata</i>	II
	<i>Aloe marlothii</i>	II
	<i>Aloe microcantha</i>	II
	<i>Aloe perryi</i>	II
	<i>Aloe polyphylla</i>	I
Asphodelaceae	<i>Aloe secundiflora</i>	II
	<i>Aloe succotrina</i>	II
	<i>Aloe turkanensis</i>	II
Berberidaceae	<i>Podophyllum hexandrum</i>	II
Cactaceae	<i>Cereus repandus</i>	II
	<i>Harrisia pomanensis</i>	II
	<i>Lophophora williamsii</i>	II
	<i>Myrtillocactus geometrizans</i>	II
	<i>Opuntia ficus-indica</i>	II
	<i>Opuntia humifusa</i>	II
	<i>Opuntia monacantha</i>	II

Family / Higher taxon	Taxon	CITES Appendix
	<i>Rhipsalis baccifera</i>	II
	<i>Schlumbergera truncata</i>	II
	<i>Selenicereus grandiflorus</i>	II
Compositae (Asteraceae)	<i>Saussurea costus</i>	I
Cycadaceae	<i>Cycas circinalis</i>	II
Dicksoniaceae	<i>Cibotium barometz</i>	II
Dioscoreaceae	<i>Dioscorea deltoidea</i>	II
Droseraceae	<i>Dionaea muscipula</i>	II
Euphorbiaceae	<i>Euphorbia bupleurifolia</i>	II
	<i>Euphorbia clavarioides</i>	II
	<i>Euphorbia cooperi</i>	II
	<i>Euphorbia grandidens</i>	II
	<i>Euphorbia ingens</i>	II
	<i>Euphorbia pulvinata</i>	II
	<i>Euphorbia resinifera</i>	II
	<i>Euphorbia woodii</i>	II
Gnetaceae	<i>Gnetum montanum</i>	III
Leguminosae	<i>Pterocarpus santalinus</i>	II
Nepenthaceae	<i>Nepenthes distillatoria</i>	II
	<i>Nepenthes khasiana</i>	I
Orchidaceae	<i>Acampe praemorsa</i>	II
	<i>Aceras anthropophorum</i>	II
	<i>Acrolophia cochlearis</i>	II
	<i>Aerangis mystacidii</i>	II
	<i>Aerangis thomsonii</i>	II
	<i>Amitostigma gracile</i>	II
	<i>Anacamptis pyramidalis</i>	II
	<i>Anoectochilus formosanus</i>	II
	<i>Anoectochilus roxburghii</i>	II
	<i>Ansellia africana</i>	II
	<i>Ansellia gigantea</i>	II
	<i>Arundina graminifolia</i>	II
	<i>Barlia robertiana</i>	II
	<i>Bletilla formosana</i>	II
	<i>Bletilla ochracea</i>	II
	<i>Bletilla striata</i>	II
	<i>Bolusiella maudiae</i>	II
	<i>Bonatea steudneri</i>	II
	<i>Bulbophyllum calodictyon</i>	II
	<i>Bulbophyllum inconspicuum</i>	II

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	<i>Bulbophyllum kwangtungense</i>	II
	<i>Bulbophyllum odoratissimum</i>	II
	<i>Bulbophyllum radiatum</i>	II
	<i>Bulbophyllum reptans</i>	II
	<i>Calanthe alpina</i>	II
	<i>Calanthe davidi</i>	II
	<i>Calyptrochilum emarginatum</i>	II
	<i>Changnienia amoena</i>	II
	<i>Comperia comperiana</i>	II
	<i>Cremastra appendiculata</i>	II
	<i>Cremastra variabilis</i>	II
	<i>Cymbidium ensifolium</i>	II
	<i>Cymbidium sinense</i>	II
	<i>Cypripedium flavum</i>	II
	<i>Cypripedium franchetii</i>	II
	<i>Cypripedium guttatum</i>	II
	<i>Cypripedium henryi</i>	II
	<i>Cypripedium japonicum</i>	II
	<i>Cypripedium macranthon</i>	II
	<i>Cypripedium margaritaceum</i>	II
	<i>Cypripedium parviflorum</i>	II
	<i>Cyrtopodium punctatum</i>	II
	<i>Cyrtorchis arcuata</i>	II
	<i>Dactylorhiza hatagirea</i>	II
	<i>Dactylorhiza iberica</i>	II
	<i>Dactylorhiza osmanica</i>	II
	<i>Dactylorhiza romana</i>	II
	<i>Dendrobium acinaciforme</i>	II
	<i>Dendrobium aduncum</i>	II
	<i>Dendrobium aphyllum</i>	II
	<i>Dendrobium bellatulum</i>	II
	<i>Dendrobium bifarium</i>	II
	<i>Dendrobium candidum</i>	II
	<i>Dendrobium cariniferum</i>	II
	<i>Dendrobium chrysanthum</i>	II
	<i>Dendrobium chryseum</i>	II
	<i>Dendrobium chrysotoxum</i>	II
	<i>Dendrobium crepidatum</i>	II
	<i>Dendrobium crumenatum</i>	II
	<i>Dendrobium crystallinum</i>	II

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	<i>Dendrobium dainanense</i>	II
	<i>Dendrobium densiflorum</i>	II
	<i>Dendrobium devonianum</i>	II
	<i>Dendrobium discolor</i>	II
	<i>Dendrobium falconeri</i>	II
	<i>Dendrobium fimbriatum</i>	II
	<i>Dendrobium gibsonii</i>	II
	<i>Dendrobium gratiosissimum</i>	II
	<i>Dendrobium hainanense</i>	II
	<i>Dendrobium hancockii</i>	II
	<i>Dendrobium henryi</i>	II
	<i>Dendrobium hercoglossum</i>	II
	<i>Dendrobium hookerianum</i>	II
	<i>Dendrobium huoshanense</i>	II
	<i>Dendrobium jenkinsii</i>	II
	<i>Dendrobium linawianum</i>	II
	<i>Dendrobium lindley</i>	II
	<i>Dendrobium lituiflorum</i>	II
	<i>Dendrobium loddigesii</i>	II
	<i>Dendrobium lohoense</i>	II
	<i>Dendrobium longicornu</i>	II
	<i>Dendrobium macraei</i>	II
	<i>Dendrobium moniliforme</i>	II
	<i>Dendrobium monticola</i>	II
	<i>Dendrobium moschatum</i>	II
	<i>Dendrobium nobile</i>	II
	<i>Dendrobium officinale</i>	II
	<i>Dendrobium ovatum</i>	II
	<i>Dendrobium pachyphyllum</i>	II
	<i>Dendrobium parishii</i>	II
	<i>Dendrobium planibulbe</i>	II
	<i>Dendrobium plicatile</i>	II
	<i>Dendrobium primulinum</i>	II
	<i>Dendrobium pulchellum</i>	II
	<i>Dendrobium purpureum</i>	II
	<i>Dendrobium reptans</i>	II
	<i>Dendrobium salaccense</i>	II
	<i>Dendrobium strongylanthum</i>	II
	<i>Dendrobium subulatum</i>	II
	<i>Dendrobium teretifolium</i>	II

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	<i>Dendrobium terminale</i>	II
	<i>Dendrobium tokai</i>	II
	<i>Dendrobium tosaense</i>	II
	<i>Dendrobium trigonopus</i>	II
	<i>Dendrobium wardianum</i>	II
	<i>Dendrobium williamsonii</i>	II
	<i>Dendrobium wilsonii</i>	II
	<i>Dendrobium xiurenense</i>	II
	<i>Dendrobium yongfuense</i>	II
	<i>Diaphananthe millarii</i>	II
	<i>Diaphananthe xanthopollinia</i>	II
	<i>Disa aconitoides</i>	II
	<i>Epipactis yunnanensis</i>	II
	<i>Eulophia clitellifera</i>	II
	<i>Eulophia cucullata</i>	II
	<i>Eulophia dabia</i>	II
	<i>Eulophia epidendracea</i>	II
	<i>Eulophia herbacea</i>	II
	<i>Eulophia nuda</i>	II
	<i>Eulophia parviflora</i>	II
	<i>Eulophia petersii</i>	II
	<i>Eulophia ramentacea</i>	II
	<i>Eulophia speciosa</i>	II
	<i>Eulophia streptopetala</i>	II
	<i>Flickingeria bifida</i>	II
	<i>Flickingeria comata</i>	II
	<i>Flickingeria fimbriata</i>	II
	<i>Flickingeria lonchophylla</i>	II
	<i>Galeola faberi</i>	II
	<i>Galeola lindelyana</i>	II
	<i>Gastrochilus formosanus</i>	II
	<i>Gastrodia elata</i>	II
	<i>Goodyera procera</i>	II
	<i>Goodyera schlechtendaliana</i>	II
	<i>Gymnadenia conopsea</i>	II
	<i>Gymnadenia crassinervis</i>	II
	<i>Gymnadenia emeiensis</i>	II
	<i>Gymnadenia orchidis</i>	II
	<i>Habenaria glaucifolia</i>	II
	<i>Habenaria linguella</i>	II

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	<i>Habenaria mairei</i>	II
	<i>Habenaria rhodochella</i>	II
	<i>Habenaria szechuenica</i>	II
	<i>Habenaria tibetica</i>	II
	<i>Himantoglossum affine</i>	II
	<i>Himantoglossum caprinum</i>	II
	<i>Liparis caespitosa</i>	II
	<i>Liparis distans</i>	II
	<i>Liparis dunnii</i>	II
	<i>Liparis fargesii</i>	II
	<i>Liparis japonica</i>	II
	<i>Liparis nervosa</i>	II
	<i>Liparis remota</i>	II
	<i>Ludisia discolor</i>	II
	<i>Malaxis acuminata</i>	II
	<i>Microcoelia exilis</i>	II
	<i>Mystacidium capense</i>	II
	<i>Mystacidium millarii</i>	II
	<i>Mystacidium venosum</i>	II
	<i>Neotinea maculata</i>	II
	<i>Nervilia fordii</i>	II
	<i>Nervilia plicata</i>	II
	<i>Ophrys bombyliflora</i>	II
	<i>Ophrys ciliata</i>	II
	<i>Ophrys ferrum-equinum</i>	II
	<i>Ophrys fusca</i>	II
	<i>Ophrys holoserica</i>	II
	<i>Ophrys lutea</i>	II
	<i>Ophrys mammosa</i>	II
	<i>Ophrys oestrifera</i>	II
	<i>Ophrys phrygia</i>	II
	<i>Ophrys reinholdii</i>	II
	<i>Ophrys scolopax</i>	II
	<i>Ophrys sicula</i>	II
	<i>Ophrys tenthredinifera</i>	II
	<i>Ophrys umbilicata</i>	II
	<i>Orchis anatolica</i>	II
	<i>Orchis coriophora</i>	II
	<i>Orchis italica</i>	II
	<i>Orchis laxiflora</i>	II

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	<i>Orchis mascula</i>	II
	<i>Orchis militaris</i>	II
	<i>Orchis morio</i>	II
	<i>Orchis pallens</i>	II
	<i>Orchis palustris</i>	II
	<i>Orchis papilionacea</i>	II
	<i>Orchis pinetorum</i>	II
	<i>Orchis provincialis</i>	II
	<i>Orchis purpurea</i>	II
	<i>Orchis sancta</i>	II
	<i>Orchis simia</i>	II
	<i>Orchis spitzelii</i>	II
	<i>Orchis tridentata</i>	II
	<i>Paphiopedilum concolor</i>	I
	<i>Paphiopedilum parishii</i>	I
	<i>Phaius tankervilleae</i>	II
	<i>Pholidota cantonensis</i>	II
	<i>Pholidota chinensis</i>	II
	<i>Pholidota yunnanensis</i>	II
	<i>Platanthera bifolia</i>	II
	<i>Platanthera chlorantha</i>	II
	<i>Platanthera concreta</i>	II
	<i>Pleione bulbocodioides</i>	II
	<i>Pleione yunnanensis</i>	II
	<i>Polystachya concreta</i>	II
	<i>Polystachya ottoniana</i>	II
	<i>Polystachya pubescens</i>	II
	<i>Polystachya sandersonii</i>	II
	<i>Rangaeris muscicola</i>	II
	<i>Serapias vomeracea</i>	II
	<i>Spiranthes sinensis</i>	II
	<i>Tangtsinia nanchuanica</i>	II
	<i>Thunia alba</i>	II
	<i>Traunsteinera globosa</i>	II
	<i>Tridactyle bicaudata</i>	II
	<i>Tridactyle tridentata</i>	II
	<i>Vanilla planifolia</i>	II
Orobanchaceae	<i>Cistanche deserticola</i>	II
Podocarpaceae	<i>Podocarpus nerifolius</i>	II
Primulaceae	<i>Cyclamen hederifolium</i>	II

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	<i>Cyclamen purpurascens</i>	II
Ranunculaceae	<i>Adonis vernalis</i>	II
	<i>Hydrastis canadensis</i>	II
Rosaceae	<i>Prunus africana</i>	II
Sarraceniaceae	<i>Sarracenia flava</i>	II
	<i>Sarracenia purpurea</i>	II
Scrophulariaceae	<i>Picrorhiza kurrooa</i>	II
Stangeriaceae	<i>Stangeria eriopus</i>	I
Taxaceae	<i>Taxus wallichiana</i>	II
Thymelaeaceae	<i>Aquilaria malaccensis</i>	II
Valerianaceae	<i>Nardostachys grandiflora</i>	II
Zygophyllaceae	<i>Guaiacum officinale</i>	II
	<i>Guaiacum sanctum</i>	II