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



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OVERVIEW OF NDF MATERIALS AVAILABLE TO CITES PARTIES

1. This information document has been prepared by the Secretariat, and is submitted in relation to document CoP18 Doc. 45 on *Non-detriment findings*.

Background and mandate:

- 2. Resolution Conf. 16.7 (Rev. CoP17) on Non-detriment findings, in paragraph 2, encourages Parties to share experiences and methods for making NDFs, and to maintain written records of their science-based rationale. Paragraph 3 of the Resolution directs the Secretariat to:
 - a) to maintain a prominent section for non-detriment findings on the CITES website and to update it regularly with information from the Animals and Plants Committees, Parties and other sources;
 - b) to implement a user-friendly mechanism on the CITES website that would allow Parties to easily submit relevant information to be considered for inclusion in the website; and
 - c) to ensure that this information is accessible in the appropriate sections of the CITES Virtual College; and maintain a prominent and regularly updated section on NDFs on its website.

These invitations to share and provide experiences with the objective to enable Parties to learn from best practice were reinforced in multiple specific provisions, including Decision 16.53 on *Non-detriment findings*, which instructs the Secretariat to:

- a) invite Parties to submit their experiences and the results from workshops, projects or publications related to the making of non-detriment findings for inclusion in the CITES website; and to
- b) ensure this information is available in other formats (e.g. CD-ROM) where appropriate.
- 3. In the process of implementing Decision 16.53 on *Non-detriment findings*, the need for an inventory and review of NDF materials and guidances that are available to the Parties became apparent. This is reflected in the proposed draft decision 18.AA(a) in document <u>CoP18 Doc. 45</u>:

The Secretariat shall: inventory and review the materials and guidance for the making of non-detriment findings (NDFs) that are available to the Parties, and identify any apparent gaps or needs (e.g. regarding taxonomic or geographical coverage, form or format, comprehensiveness, accessibility, languages, updates, practicality, etc.), including guidance for making NDFs for trade in specimens from different sources (W, R and F), and NDFs for taxa prioritized/called for in Decisions or Resolutions.

4. Thanks to a Junior Professional Officer position funded by Germany, the Secretariat has initiated an inventory and review of relevant NDF materials available to Parties on the CITES website.

Definition of NDFs and NDF guidances

- 5. Paragraph 1(a)i of Resolution Conf. 16.7 (Rev. CoP17) on Non-detriment findings defines NDFs as 'the result of a science-based assessment that verifies whether a proposed export is detrimental to the survival of that species or not'. This definition entails four elements: (i) a description of the available resource base, (ii) an analysis of the risks to the survival of the species, (iii) a description of a proposed export, and (iv) an assessment whether a proposed export is detrimental to the survival of that species or not. These four aspects can be addressed in different levels of detail, with varying emphases and in different formats.
- 6. The review distinguishes NDFs per se, from NDF guidances and case studies. For the purpose of this review, "NDFs" are to be understood as documents produced with the aim to support a specific decision on export permits in a range State of a CITES-listed species, uploaded in the CITES website as an example or model for other Parties to draw upon, if they so wish. "NDF guidances" are defined as material that supports Parties in formulating NDFs in a more generic and general manner. Guidances can take the form of guiding questions, "cooking book recipes", or fully elaborated tabular materials that are intended to be completed by Parties making an NDF. Finally, case studies are exclusively used to portray "model NDFs" from the "International Expert Workshop on CITES NDFs" (2008, Cancun, Mexico), henceforward referred to as the Cancun Workshop.

Methodology for search and inventory of NDFs and NDF guidances

7. The Secretariat reviewed sections of the CITES website in which NDF materials are located. These are: the NDF database; documents submitted to Plants and Animals Committees available under the working documents and information document sections for their various meetings since 2013; and the review of significant trade process (for the latter, no direct link is currently available, but a process for designing an updated and dedicated RST database is underway). Materials are also found in additional sections such as those on Queen Conch, and the Virtual College.

Inventory of NDF materials available to Parties

- 8. Overall, 121 NDF materials were identified on the CITES website. 29 are NDF guidances (12 of them derived from the Cancun workshop), and 36 are NDFs. In total, 56 are "case studies" initially prepared for the 2008 Cancun workshop. Due to their large number, and since their qualities are reflected in the guidances that this workshop produced, these case studies were excluded from further review. A full list of inventoried materials and weblinks are appended in Annex 1.
- 9. In the process of developing the inventory three main insights became evident:
 - i) the number of materials available in the website is limited, and likely not representative of the NDFs actually and thus far developed by Parties;
 - ii) many pertinent materials, produced within the RST process, and in the CITES NDF database are of ancillary relevance to NDF making, since they focus on selected aspects rather than aspiring to address NDF requirements comprehensively;
 - iii) of the 121 available materials, 56 are case studies from the Cancun workshop (10 years back), and an additional 12 out of 29 available NDF guidances were derived from the same workshop. Thus, the total number of materials available *not* derived from that workshop is 53, divided into 36 NDFs and 17 guidances. This indicates the relevance that the Cancun workshop still has on NDF making to this day.

Review of taxonomic coverage

10. The availability of NDFs and NDF guidances by taxonomic group in the table below demonstrates that Parties can find ample material to support NDF making for some major taxa. In the case of tree species, there are 11 available NDFs, 8 guidances specifically dedicated to tree species, and some more general guidances (such as the IUCN guidance), that can be applied to trees, but are not specific to them. For fish, there are 8 NDFs and four dedicated guidances to choose from.

		NDF	Guidance	NDF	Guidance
Animals	Mammals	7	3	22	42
	Birds	1	1	22	13

	Reptiles & Amphibians	4	3		
	Fish	8	4		
	Invertebrates	2	2		
Trees	Trees	11	8	11	8
Other plants	Succulents & Cycads	2	1		
	Geophytes & Epiphytes	0	1	3	4
	Perennials	1	2		
	Various / all	0	4	0	4
	TOTAL				29

11. This data suggests that the lack of guidance for NDFs for (non-tree) plants is not representative or proportionate to the levels of trade recorded for these species in the CITES database. Among the animal taxa, it seems that amount of materials to assist Parties in making NDFs for birds and invertebrates are insufficient.

Review of language coverage

12. The table below presents available materials by major taxon and working language of the Convention. The largest number of materials is available in English, with roughly the same number of materials available in French and Spanish.

	English		French		Spanish	
	NDF	Guidance	NDF	Guidance	NDF	Guidance
Mammals	6	3	0	0	1	0
Birds	0	1	0	0	1	0
Reptiles & Amphibians	2	3	1	0	1	0
Fish	7	3	1	3	0	2
Invertebrates	1	2	0	0	1	1
Trees	4	8	4	5	4	4
Succulents & Cycads	2	1	0	1	0	1
Geophytes & Epiphytes	0	1	0	1	0	1
Perennials	1	2	0	2	0	2
Various / all	0	4	0	2	0	3
TOTAL (exceeds the number of	23	28	6	14	8	14
available materials, since some are translated into several languages)	Ę	51	2	20	2	22

Review of taxa called for in resolutions or decisions

13. For this section of the review on all CITES-listed species, taxa and use classes (e.g. hunting trophies) were collected for which a specific Resolution exists, or a new specific mandate referred to in CoP18 documents. Subsequently, these were matched with available materials (see the table below). Columns three and four are marked green if dedicated guidances or example NDFs exist. Columns five and six are marked green if there exist materials of more complementary relevance that relate to overarching taxa, or similar use classes.

	ed for in CITES resolutions or CoP18 documents	(at least	Specific material available (at least family level, or directed to specific use class)		Generic material availabe (overarching taxon or similar use class)	
l		Guidance	Example NDF	Guidance	Example NDF	
Mammals	Big cats					
	Hunting trophies					
	Leopard					
	African lion					
	Jaguar					
	Cheetahs					
	African carnivores					
	Bears					
	Elephants					
	Rhinoceroses					
	Great apes					
	Tibetan antilope					
	Saiga antelope					
	Musk deer					
	Vicuna					
	Pangolins					
	Cetaceans					
	Black Sea bottlenose dolphin					
Birds	Songbirds					
	African grey parrots					
	Helmeted hornbill					
	Vultures					
Reptiles	Snakes					
	Tortoises and freshwater turtles					
	Hawksbill turtle					
Amphibians	Amphibians					
	Titicaca water frog					
Fish	Sharks and rays					
	Sturgeons, paddlefish					
	Eels					
	Humphead wrasse					
	Totoaba					
	Ornamental fish					
	Banggai Cardinal fish					
	Seahorses					
Invertebrates	Queen conch					
	Corals					
Trees	Timber species					
	Neotropical trees					
	Rosewood					
	Malagasy ebonies (Diospyros spp.) and palisanders and rosewoods (Dalbergia spp.)					
	Agarwood-producing taxa					
	Agarwood-producing taxa African cherry					
Other plants	Agarwood-producing taxa African cherry Orchids					

Review of comprehensiveness

14. The initial review seems to suggest that many of the criteria that are recommended by Resolution Conf. 16.7 (Rev. CoP17) are well largely implemented in many or most NDF. Examples are the criteria on vulnerability, threats, population trends, trade, and the precautionary principle. Others are well implemented for most,

though not all, of their aspects, such as conservation status, management and monitoring, inclusive knowledge and information transparency. This demonstrates that Parties wishing to draw on guidance and example materials from the CITES will find plenty of valuable materials on these aspects. It also suggests that many important criteria may be well established in the wider CITES NDF making practice.

Review of form, format, practicality and accessibility

- 15. All reviewed materials are available on the CITES website in written form. Most are well understandable, well formatted, and technically complete in the sense that no sections seem to have been lost during file transformation processes, or similar issues. However, the Secretariat observed a range of avenues to improve form, format, accessibility and clarity.
- 16. In terms of form and format, there is no requirement for NDFs to be lengthy or complex. Quite in contrast, Resolution Conf. 16.7 (Rev. CoP17) on Non-detriment findings, as well as many NDF guidances, explicitly recommend to adapt effort and data requirements to the risk that a proposed trade has for a species. Yet, almost all of the NDFs available to Parties count between 20 and 120 pages of research. Considerable resources, data, investment and capacity are required to follow the model of most NDFs currently available at the website. Pragmatic examples of NDFs in low resource, low data, low data, low capacity, and low risk situations are largely missing. The Secretariat is of the view that CITES would benefit from a realistic and varied suite of guidances and model NDFs that are appropriate and pragmatically adapted to a wider range of contexts and situations.
- 17. The NDF database itself, and its mechanism for automatic upload of materials would benefit from a review of all items contained in it, and the search function should be improved.

Recommended next steps

- 18. In line with the draft decisions contained in document <u>CoP18 Doc. 45</u>, the Animals and Plants Committees could determine priorities for follow-up work to improve NDF capacity building materials available to Parties.
- 19. The Secretariat furthermore proposes a 3-step procedure:
 - i) issue a notification asking Parties to provide additional, existing NDF materials;
 - ii) convene technical workshops for each major gap that will be identified in a more detailed and in-depth review of available materials. Each technical workshop could bring together relevant experts from academia, those experienced in environmental impact assessments and risk analyses, as well as representatives of CITES Scientific Authorities. Small scale consultancies could be contracted to finish materials in follow-up work, as required; and,
 - iii) convene a second international NDF workshop with participation from Scientific Authorities, the CITES Secretariat, the Plants and Animals Committees, and relevant external experts, as required. This workshop would work in a sequence of plenary and working group phases. The objective could be to review all available materials, identify their strengths and weaknesses, and make recommendations which materials are useful for guiding and assisting CITES Parties with regard to particular aspects, and in particular contexts. The overarching objective could would be a decision tree which materials can be consulted if Scientific Authorities search for assistance with particular problems, taking into account the particular situation that they are in. Ideally, the workshop would thus result in a set of materials that could constitute a non-binding, flexible and adaptable quality standard for NDF capacity building materials in CITES.

Inventory of available NDF materials

The following table lists all example NDFs, guidances (G), and case studies from the Cancun Workshop (CS) that were inventoried on the CITES website. NDFs and guidances were included in the subsequent review. All weblinks were consulted on August 7, 2019.

Type	Name	Party / Institution	Region	Year	Link
NDF	Aniba rosaeodora	Peru	CSAC	2015	weblink
NDF	Aguilaria malaccensis	Indonesia	Asia	2009	weblink
NDF	Bulnesia sarmientoi	Paraguay	CSAC	2013	weblink
NDF	Brookesia minima, B. peyrierasi	Madagascar	Africa	2018	weblink
NDF	Carcharinus falciformis	New Zealand	Oceania	2017	weblink
NDF	Alopias vulpinus, Alopias superciliosus	USA	North America	2017	weblink
NDF	Cycas thouarsii	Mozambique	Africa	2012	weblink
NDF	Dalbergia cochinchinensis	Vietnam	Asia	2012	weblink
NDF		Nicaragua	CSAC	2018	weblink
	Dalbergia retusa	Morocco			
NDF	Anguilla anguilla		Africa	2018	weblink
NDF	Furcifer angeli	CITES Secretariat	International	2013	weblink
NDF	Sphyrna lewini, Sphyrna mokarran, Sphyrna zygaena	USA	North America	2015	weblink
NDF	Hoodia gordonii	South Africa	Africa	2017	weblink
NDF	Nardostachys grandiflora	Nepal	Asia	2017	weblink
NDF	Lamna nasus	New Zealand	Oceania	2014	weblink
NDF	Lamna nasus	USA	North America	2017	weblink
NDF	Panthera pardus	Mozambique	Africa	2018	weblink
NDF	Panthera pardus	Namibia	Africa	2018	weblink
NDF	Panthera pardus Panthera pardus	South Africa	Africa	2018	weblink
NDF	Panthera pardus	United Republic of	Africa	2018	weblink
	·	Tanzania			
NDF	Panthera pardus	Zambia	Africa	2018	<u>weblink</u>
NDF	Panthera pardus	Zimbabwe	Africa	2018	<u>weblink</u>
NDF	Mantella viridis	CITES Secretariat	International	2013	<u>weblink</u>
NDF	Pericopsis elata	Democratic Republic of	Africa	2014,	weblink 1,
		the Congo		2015,	weblink 2,
				2018	weblink 3
NDF	Pericopsis elata	Cameroon	Africa	2018	weblink
NDF	Podocnemis unifilis	Peru	CSAC	2015	weblink
NDF	Prunus Africana	Democratic Republic of	Africa	2013,	weblink 1,
1101	Trando Timodria	the Congo	, unou	2017	weblink 2
NDF	Prunus Africana	Cameroon	Africa	2014	weblink 1, weblink 2
NDF	Arantiga waglen, Arantiga mitrata, Aratinga weddellii, Aratinga leucophtalma, Brotogeris cyanoptera, Brotogeris sanctithomae, Brotogeris versicolurus	Peru	CSAC	2014	weblink 2
NDF	Pterocarpus santalinus	India	Asia	2012	weblink
NDF	Sphyrna zygaena	New Zealand	Oceania	2014	weblink
NDF	Mobula japanica	New Zealand	Oceania	2017	weblink
NDF	Strombus gigas	Honduras	CSAC	2017	weblink
NDF	Strombus gigas	Netherlands	Europe	2014	weblink
NDF	Swietenia Macrophylla	Peru	CSAC	2015	weblink
NDF		Peru	CSAC	2013	
	Vicugna vicugna			_	weblink
G	9 Step guidance for timber	Germany	Europe	2018	weblink
G	9-step guidance for perennial plants	Germany	Europe	2016	weblink
G	Agarwood	CITES Secretariat	International	2013	weblink
G	Agarwood-Producing Taxa	Various	International	2008	weblink
G	Aquatic invertebrates	Various	International	2008	<u>weblink</u>
G	Aquatic species	Japan	Asia	2015	<u>weblink</u>
G	Birds	Various	International	2008	<u>weblink</u>
G	IUCN guidance	IUCN	International	2002	<u>weblink</u>
G	CITES Species	Spain	Europe	2017	weblink
G	Anguilla anguilla	Tunisia	Africa	2018	weblink
G	Fish	Various	International	2008	weblink
G	Geophytes and Epiphytes	Various	International	2008	weblink
G	Gonystylus spp.	Indonesia	Asia	2010	weblink
G	Hunting trophies	EU	Europe	2017	weblink
G	Mammals				
		Various	International	2008	weblink
G	Medicinal Plants	Various	International	2008	weblink
G	Ovis ammon, Hunting trophies	CITES Secretariat Various	International International	2013 2008	weblink weblink
G	Perennial Plants				

G	Pericopsis elata	Belgium	Europe	2014	weblink
G	Reptiles and Amphibians	Various	International	2008	weblink
G	Seahorses	Canada	International	2013	weblink
G	Sharks	Germany	Europe	2014	weblink
G	Snakes	IUCN	International	2017	weblink
G	Strombus gigas	Honduras	CSAC	2017	weblink
Ğ	Succulents and Cycads	Various	International	2008	weblink
G	Timber Species and Prunus Africana	Various	International	2008	weblink
G	Tree species	Guatemala, Spain	International	2015	weblink
G	Trees	Various	International	2008	weblink
G	Turtles and tortoises	IUCN	International	2015	weblink
CS	Acepenser spp., Husa spp.	Romania	Europe	2008	weblink
CS	Aloe spp.	Kenya	Africa	2008	weblink
CS	Amazona auropalliata	Nicaragua	CSAC	2008	weblink
CS	Anguilla anguilla	Sweden	Europe	2008	weblink
CS	Ansellia	Kenya	Africa	2008	weblink
CS	Anthipatharia	USÁ	North America	2008	weblink
CS	Aquilaria malaccensis	Malaysia	Asia	2008	weblink
CS	Cacatua galerita	New Zealand	Oceania	2008	weblink
CS	Cacatua sulphurea	Indonesia	Asia	2008	weblink
CS	Caesalpinia echinata	Brazil	CSAC	2008	weblink
CS	Carnegiea gigantea	Mexico	North America	2008	weblink
CS	Ceratozamia mirandae	Mexico	North America	2008	weblink
CS	Cheilinus undulates	Indonesia	Asia	2008	weblink
CS	Cibotium barometz	China	Asia	2008	weblink
CS	Coral	Australia	Oceania	2008	weblink
CS	Crocodilus niloticus	Kenya	Africa	2008	weblink
CS	Cuora amboinensis	Malaysia	Asia	2008	weblink
CS	Cuora amboinensis	Indonesia	Asia	2008	weblink
CS	Cycas circinalis	Mexico	North America	2008	weblink
CS	Dioon edule	Mexico	North America	2008	weblink
CS	Encephalartos spp.	South Africa	Africa	2008	weblink
CS	Falco cherrug	United Arab Emirates	Asia	2008	weblink
CS	Galanthus elwelsii	Turkey	Asia	2008	weblink
CS	Galanthus woronowii	Georgia	Europe	2008	weblink
CS	Gonystylus bancanus	Malaysia	Asia	2008	weblink
CS	Guaiacum sanctum	Mexico	North America	2008	weblink
CS	Hippocampus spp.	Canada	North America	2008	weblink
CS	Hoodia gordonii	South Africa	Africa	2008	weblink
CS	Macaca fascicularis	China	Asia	2008	weblink
CS	Macaca mulata	China	Asia	2008	weblink
CS	Malacochersus tornieri	Kenya	Africa	2008	weblink
CS	Monodon monoceros	Greenland	Europe	2008	weblink
CS	Nardostachys grandiflora	Denmark	Europe	2008	weblink
CS	Orchids	Ecuador	CSAC	2008	weblink
CS	Panax quinquefolius	USA, Canada	North America	2008	weblink
CS	Panthera leo	Tanzania	Africa	2008	weblink
CS CS	Panthera pardus	South Africa	Africa	2008	weblink
CS CS	Parrots	Mexico	North America	2008	weblink
CS CS	Pelargonium sidoides	Lesotho	Africa		weblink
CS CS	Pericopsis elata	Cameroon	Africa	2008 2008	weblink
CS	Platycercus eximius	New Zealand	Oceania	2008	weblink
CS CS	Prunus africana		Africa	2008	
CS CS	Prunus arricana Psittacus erithacus	Equatorial Guinea Guinea	Africa	2008	weblink weblink
CS	Ptyas mucosus	Indonesia	Asia	2008	weblink
CS	Rare Orchids	UK	Europe	2008	weblink weblink
CS	Strong Corals	Indonesia	Asia	2008	weblink weblink
CS_	Strombus gigas	Colombia	CSAC	2008	weblink
CS	Swietenia macrophylla	IUCN	CSAC	2008	weblink
CS	Taxus spp.	Canada	North America	2008	weblink
CS_	Tillandsia xerographica	Guatemala	CSAC	2008	weblink
CS	Tridacnidae	Palau	Oceania	2008	weblink
CS	Tursiops aduncus	Solomon Islands	Oceania	2008	<u>weblink</u>
CS	Uromastyx spp.	Israel	Europe	2008	weblink
CS	Ursus arctus	Canada	North America	2008	<u>weblink</u>
CS CS	Vanda coerulea	Thailand	Asia	2008	weblink
α	Vicugna vicugna	Peru	CSAC	2008	weblink