



Working Group Meeting on

"Non-detriment findings (NDF) -Practical guidance for CITES-listed tree species"



Antigua (Guatemala) 16-19 September 2015

REPORT

Background

The project, which is sponsored under the CITES-ITTO programme, started in September 2014, and is expected to conclude in December 2015. The proposal was supported by the CITES Management Authorities of Guatemala and Spain. Implementing agencies are the BALAM Association (Guatemala), and the University of Cordoba (Spain). The Collaborating Agency is the National Council for Protected Areas (CONAP), Guatemala. The project targets almost 400 CITES-listed tree species.

The main objective of the Project is to provide guidance for CITES Authorities on the processes, methodologies, and information required to make Non-detriment findings (NDFs) for timber species, and for non-timber tree species that are used for other products, in order to ensure that the requirements for the export of CITES-listed species can be implemented in an appropriate manner, and that international trade is compatible with the sustainable management and conservation of the species.

The project included the organization of a Working Group, formed by *ad hoc* experts (who have been personally selected based on their experience).

Working Group Meeting

A Working Group Meeting on "Non-detriment findings (NDF) - Practical guidance for CITES-listed tree species" was held in Antigua (Guatemala) from 16 to 19 September 2015 under a Project ITTO-CITES.

The following 14 *ad hoc* experts attended the meeting: Mr Beltetón, César (Guatemala); Mr Betti, Jean (Cameroon); Ms Chua, Lillian (Malaysia); Ms Clemente, Margarita (Spain); Ms Correia de Mello, Claudia María (Brazil); Mr Didik, Purwito, (Indonesia); Mr Farr, Kenneth (Canada); Ms Ford, Patricia (United States of North America); Ms Hirakuri, Sofia (ITTO-Brazil); Ms Núñez, Fabiola (Peru); Mr Quero, José Luis (Spain); Mr Rushemeza, Jean (Burundi); Mr Schmitz-Kretschmer, Hajo (Germany) and Ms Sosa-Schmidt, Milena (CITES Secretariat). The expert selected from Mexico was unable to attend.

A comprehensive document was prepared and addressed to the experts beforehand for discussion during the meeting. The document included, among others, a revision and summary of the many different approaches followed in the process of making NDF by the Parties, and in proposals from international workshops, guidelines, etc.

The experts were invited to share their experiences and best practices relative to forest management, traceability, methodologies, risk analysis, and application of Non-detriment findings for CITES-listed tree species. Accordingly, the first day the experts provided the following presentations:

NDF: Overview of best practices at global level (Ms Sosa-Schmidt)

Methodologies for making Non-Detriment Findings for Swietenia macrophylla in Guatemala (Mr Beltetón)

Methodologies for making Non-Detriment Findings for timber species in Peru (Ms Núñez)

Methodologies for making Non-Detriment Findings for *Aniba rosaeodora* in Brazil (Ms Correia de Mello)

Methodologies used for establishing Non-Detriment Findings for endangered tree species in Africa (Mr Betti)

Methodology used for establishing Non-Detriment Findings for *Prunus africana* in Burundi (Mr Rushemeza)

Aquilaria malaccensis (agarwood-producing species): Has the listing in Appendix II come too late? (Ms Chua)

Considerations of making NDF of agarwood in Indonesia (Mr Didik)

Methodology for making Non-Detriment Findings for trees in Canada (Mr Farr)

Methodology for making Non-Detriment Findings for trees in the United States (Ms Ford)

New applicable methods for Non-Detriment Findings (Mr Quero)

NDF Guidelines for making NDFs for trees in the European Union (Mr Schmitz-Kretschmer)

Mr Beltetón and Ms Clemente presented the workshop objectives and methodology, which focused on discussion of the document prepared and addressed to the experts. This document included components of Resolution Conf. 16.7 on Non-detrimental findings (NDF) and presented different ways to respond to them.

The outcome of this exercise is a revision of the various components in the Resolution and identification of elements required to adequately respond to it. The resulting Table is only an initial effort to identify elements, methodologies, problems and possible solutions.

There is a notable variety of methodologies applied by the Parties that should be considered and respected, given that Parties respond individually with the available instruments and capacities. Thus, rather than providing a rigid methodological framework, the final objective is to produce a Manual containing a flexible methodological framework from which the Parties might find the best option to suit them.

A document has been submitted to the 22nd meeting of the Plants Committee<u>PC22 Doc. 9.2 (Rev. 1)</u>. The contributions from the Plants Committee, Parties and stakeholders will allow the preparation of the final product which is expected to be a user friendly Manual in CD-ROM format.



The Output from the Working Group Meeting on "Non-detriment findings (NDF) for trees were the followings:

ELEMENTS Resolution Conf. 16.7	DETERMINA	TION	Methodologies for specific taxa, and different situations at level: Local, Annual Operational Plans (AOPs); National, Sub-national, Regional, Global	General Considerations		
Scientific data-based assessment	IF NO NDF not realizable	YES	Data quality Publications in peer reviewed journals (indexed journals) Inventories from public administrations (regional, national, federal etc.). Should specify sampling year / inventory. Updated data (5yrs)	Scientific data needs to be the most current available. Source need to be authoritative.		
Correct identification of the species (authoritative, supported by standards, high level of confidence)	IF NO NDF not realizable	YES	Sources of information Data quality Updated data	Correct identification: authoritative, supported by standards, providing a high level of confidence, e.g CITES standard nomenclature Reference material available Data quality Updated data		
Verification that it is specimens of this species that are to be exported;	IF NO NDF not realizable	YES	Source of data, verifying entity, traceability methodology, data quality	This element refers to chain of custody concerns, verifying that the specimens identified are those shipped Identification of area of distribution Source of data, verifying entity, traceability methodology, data quality		
Origin	No Legal (Illegal logging) and/or Land conversion NDF not realizable	YES	Source of data, verifying entity, traceability methodology, data quality	Land conversion is sovereign right of State. However, NDF still required. Harvest may be legal, but not sustainable. Legality of origin can be determined <i>a priori</i> , but determination of sustainability should be made at the end of NDF process Source of data, verifying entity, traceability methodology, data quality		

ELEMENTS Resolution Conf. 16.7	DETERMINATION		Methodologies for specific taxa, and different situations at level: Local, Annual Operational Plans (AOPs); National, Sub-national, Regional, Global	General Considerations		
	Plantations No: then wild population	YES	Mark: Plantation type: a. monospecific b. mixed c. agroforestry d. gardens e. other Explain: monitoring and control systems, area, location, annual production, traceability.	Source of data, verifying entity, traceability methodology, data quality Verifying legal acquisition		
	Natural forest Wild		General management plans, Annual operational plans (AOPs) Explain: monitoring and control systems, area, location, annual production, traceability.	Source of data, verifying entity, traceability methodology, data quality Verifying legal acquisition		
Consider the volume of legal trade	NO Report on the situation at local level	YES Include the data	Sources of the most updated information Data quality Updated data	Consider the impact on the populations of the known levels of legal trade National and international trade. National market and international trade. Information such as that available via the CITES trade database maintained by UNEP World Conservation Monitoring Centre (UNEP-WCMC), publications on trade, local knowledge on trade and investigations of sales at markets or through the Internet for example http://trade.cites.org/en/cites_trade A Guide to Using the CITES Trade Database		
Consider the impact of illegal trade known, inferred, projected, estimated Report on the situation at local level		YES Include data for the different types	Sources of information Entities registering the information Updated data Data quality	Consider the impact on the populations of the known and estimated levels of illegal trade to extent possible. Consider confiscations		

ELEMENTS Resolution Conf. 16.7	DETERMINATION		Methodologies for specific taxa, and different situations at level: Local, Annual Operational Plans (AOPs); National, Sub-national, Regional, Global	General Considerations		
Vulnerability of the species (intrinsic and extrinsic factors that increase the risk of extinction of the species)	Report on the situation at local level	Report on factors that increase the risk of extinction	Sources of information, Publications, Entities registering the information, Updated data, Data quality	Intrinsic and Extrinsic factors: see Resolution Conf. 9.24 (Rev. CoP16) Annex 5 Sources of information Publications, Entities registering the information Updated data Data quality		
The data requirement is proportional to the vulnerability of the species	NO YES Explain Explain		Methods to be applied according to data requirements	Assessment of vulnerability required		
Consider the volume of all types of trade in relation to the vulnerability of the species	Report data		Methods Yield rate, Conversion factors PC17 Doc. 16.1.3, PC17 Inf. 3	Assessment and conclusions based on the results.		
Type of specimen	Specify type of specimen: logs, sawn wood, veneer sheets, plywood, woodchips, powder, extracts, woodchips, unfinished wood articles used for the fabrication of bows for stringed musical instruments, finished products packaged and ready for retail trade, carvings. Others: Specify. Renewable specimens: bark, leaves, seeds, etc.)		Measurement units Provide a commodity code system	CITES Glossary http://www.cites.org/eng/resources/terms/glossa ry.php Guide to Using the CITES Trade Database, Annex 1. A Guide to Using the CITES Trade Database Use of harmonized system (HS) codes as a method for identification of specimen type		

ELEMENTS Resolution Conf. 16.7	DETERMINATION		Methodologies for specific taxa, and different situations at level: Local, Annual Operational Plans (AOPs); National, Sub-national, Regional, Global	General Considerations		
The species would be maintained throughout its range at a level consistent with its role in the ecosystems in which it occurs	NO Report on the situation at local level	YES	Sources of information, Publications, Red lists Forest mapping CITES proposals to amend the Appendices Entities registering the information, Updated data, Data quality	Assessment of the conservation status of the species at level: local, sub-national, national or regional. In the context of species biology (role/function of the species in the ecosystem) Vulnerability parameters should be included Age-class distribution and percentage species presence (i.e. stand structure), genetic diversity National strategies		

ELEMENTS Resolution Conf. 16.7	Specifics data of the species	Methods and Assessments
BIOLOGY AND LIFE CYCLE	Biological characteristics of the species (e.g.: reproduction, recruitment rate, survival rate, regeneration and reproduction strategies) Habitat type (specify the type of habitat used by the species, and if relevant, the type of habitat specificity) Role of species in the ecosystem	Evaluation of significant elements of biology and life cycle justifying the method used.
DISTRIBUTION AREA	Objective: Characterize the species' distribution at differen conservation areas can be identified. Suggested scales an	
HISTORICAL (indicate period of reference)	National Distribution	 Vegetation and time series forest cover maps Ecosystem or eco-zone maps National forest inventories Herbarium collections and data (georeferenced) Existing and potential conservation areas Secondary data sources (i.e. historical references in land surveys, historical observations in national histories) GIS and remotely sensed data from a variety of sources if available
	Sub-National (e.g. Regions, States, Watersheds) Distribution	 National databases, including management units Sub-national forest inventories Sub-national mapping from various sources
	Local (Forest Management Unit) Distribution	 Statistical samples from inventories for forest management plans GIS representation of harvest areas Commercial censuses, ideally based on georeferenced data Local, specialist and industry knowledge
CURRENT	National Distribution	 Vegetation and forest cover maps Ecosystem or eco-zoning maps National forest inventories Herbarium collection data (georeferenced) Existing and potential conservation areas Field studies recently carried on GIS and remotely sensed data from a variety of sources Indicate: the most current reference period, preferably no more than 3-5 years in the past the information being used in the present by the relevant forest management agency.

ELEMENTS Resolution Conf. 16.7		Specifics data of the species	Methods and Assessments
		Sub-National (e.g. Regions, States, Watersheds) Distribution	 National databases, including management units Sub-national forest inventories Sub-national mapping from various sources Recent field studies GIS and remotely sensed data from a variety of sources Indicate: the most current reference period, preferably no more than 3-5 years in the past the information being used in the present by the relevant forest management agency.
		Local (Forest Management Unit) Distribution	 Statistical samples from inventories in forest management plans GIS and remote sensing data from harvest areas Commercial surveys, , ideally based on georeferenced data Field studies recently carried out Local, specialist and industry knowledge Indicate: the most current reference period, preferably no more than 3-5 years in the past the information currently utilized by the relevant forest management agency.
POPULATION PAR INDICATORS OF I	RAMETERS AS MANAGEMENT TO	Objective: Characterize species population status (standin harvest impacts. Suggested parameters and tools that may	g stocks and dynamics) to provide standards for evaluating y be available, include:
ENSURE SUSTAIN			
POPULATION STRUCTURE FOR:	a) Harvested area b) National level c) International level	Number of Individuals, Age and/or Size Distribution, Diametric classes Density, Basal area Volume obtained/Quantity of harvested trees.	 Field inventories applying appropriate statistical methods Published studies Reliable proxy data (e.g. local knowledge, historical data) BSc, MSc & PhD theses.
POPULATION STATUS FOR:	a) Harvested area b) National level c) International level	Rates of mortality, Rates of growth or replacement (e.g. of bark) Reproduction Regeneration Recruitment Intrinsic and Extrinsic factors	 Long-term studies using appropriate methods Modelling approaches (e.g. matrix) Published studies Reliable proxy data (e.g. local knowledge, historical data) Information on other factors affecting populations (e.g. microsite preferences) BSc, MSc & PhD theses.

ELEMENTS Resolution		Specifics data of the species	Methods and Assessments			
Conf. 16.7 POPULATION TRENDS FOR:	a) Harvested area b) National level c) International level	increasing decreasing stable no information	Compiled results of the above information, methodology and assessment Population dynamics data, demographics data			
THREATS		Specify the threats to which the species is subjected.	 Information on other factors negatively affecting populations (e.g., pests, disturbances) References relevant to the assessment of threats 			
MANAGEMENT S ENSURE SUSTAI RATES		Objective: With sufficient knowledge of distribution, popula whether the harvest is sustainable. Suggested aspects to				
		Inventory (or description) of commercial and non- commercial trees Harvest operations Silvicultural practices Restoration / alleviation measures/ reduction of harvest impacts	Using mapping / spatial referencing/ Possible Methodologies Identification of material to be harvested, understanding that differing harvest systems can be implemented Equipment/tools and methods to be used Measures for reducing damage during harvests (direct mechanical and environmental) Identification and protection of reserved areas/seed trees/future target trees Pre- and post-harvest Examples: release thinning, seed tree selection As appropriate: Seed tree retention Enrichment planting, with adequate seed selection (e.g. vigour, genetic diversity) Cutting/bark extraction cycle (rotation) or fallow period			
		Evaluation of harvest methods and intensity	 Post-harvest measures for reducing damage (direct and environmental) Standards: harvest intensity (retention %), minimum diameter for cutting or bark extraction limit, management diameter (minimum diameter of regular fructification) Quantitative information as available, of population status, using appropriate statistical methods Expected (current) production and recovery rates (future production) Appropriate scaling methods 			

ELEMENTS Resolution Conf. 16.7		Specifics data of the species	Methods and Assessments				
MONITORING AND	VERIFYING	Objective: To determine whether adequate monitoring and verification systems are in place that ensure sustainable					
HARVESTS		harvest and to minimize illegal activities and illegal trade.					
		Monitoring and verification systems	 Pre- and post-harvest review mechanisms to verify management practices Permanent plots to assess harvest impacts on populations Chain-of-custody information from harvest to export Traceability Transparent practices that improve control of trade in harvested products 				
		Optimization of timber / non timber use and processing • Conversion / correction factors for translating ramaterial (e.g. standing volume, pre-processed vinto processed product (e.g. sawn wood, extrao					
From all sources com		Include historical (period) and current (last year	Methods, Assessments				
	Historical	available) data					
	Current	Indicate the data quality					
SETTING EXPORT	QUOTAS	Include past annual export quotas	 Consider the impact of past annual export quotas when establishing new export quotas for a calendar year. 				
PATTERNS OF HARVEST Minimum diameter cutting limit, Extraction rate, Cutting /bark extraction cycle (rotation)	Historical Current	Include historical (period) and current (last 3-5 years) data Indicate the data quality	Methods, Assessments				
MORTALITY Historical Current		Include historical (period) and current (last 3-5 years) data Indicate the data quality	Methods, Assessments				
MANAGEMENT MEASURES CURRENTLY IN PLACE	Adaptive management strategy	Include the management currently in place and its compliance Include data on corrections done in the adaptive	Methods, Assessments				
Compliance		management strategy					

ELEMENTS Resolution Conf. 16.7		Specifics data of the species	Methods and Assessments
MANAGEMENT MEASURES PROPOSED	Adaptive management strategy Compliance	Identify measures to improve compliance	Methods, Assessments
POPULATION MONI		Monitoring measure, sampling methods, frequency and any other relevant measures Indicate the data quality	Methods, Assessments
CONSERVATION AN	ND SAFEGUARDS	Objective: To determine whether safeguards are in place to post-harvested population and the role of the species in the	
		 Conserve sub- populations throughout the natural range to ensure phenotypic and genetic diversity Conserve the existing range of age/ size classes and distribution of the species while considering processes of natural succession and recruitment Avoid negative harvest impacts on other species and the ecosystem Establish reserve areas to protect unharvested sub-populations Establish seed banks and other mechanisms for conservation of germplasm Accounting for the effects of legal and illegal harvest on species conservation status Consider incentives and benefits from harvests (e.g. species/habitat conservation). 	Methods, Assessments In case of deficiencies: the precautionary principle with appropriate measures should be applied
CONSERVATION ST	ATUS	Combine all obtained data and include the conservation status at different levels: local (AOPs), national, subnational, regional, global	Methods, Assessments
PRECAUTIONARY PRINCIPLE		By virtue of the precautionary approach and in case of unc	best interest of the conservation of the species concerned

SOURCES OF INFORMATION. (Resolution <u>Conf. 16.7</u>) Mark with an X (in first column) the information types you have used and in th	Personal assessment on		
sources thereof		Updated Data (Year)	Data quality Low, Medium, High
Relevant scientific literature concerning species biology, life history, distribution and population trends			
Details of any ecological risk assessments conducted			
Scientific surveys conducted at harvest locations and at sites protected from			
harvest and other impacts			
Relevant knowledge and expertise of local and indigenous communities			
Consultations with relevant local, regional and international experts			
National and international trade information such as that available via the CITES			
trade database maintained by UNEP World Conservation Monitoring Centre			
(UNEP-WCMC), publications on trade, local knowledge on trade and			
investigations of sales at markets or through the Internet for example; and			
Information included in the Annex to document <u>AC26/PC20 Doc.8.4</u> and any			
subsequent updates available on the CITES website.			
https://www.cites.org/eng/prog/ndf/index.php			
OTHERS			

Final Recommendations:

To incorporate in the final version of the Manual a Glossary of terms

The Scientific Authorities should consider incorporating or consulting with forestry experts when they prepare NDF for trees

To consider methods to increase the scientific information when the access to scientific literature is limited and to point out this issue to the Capacity Building Working Group for consideration