CITES - IUCN Checklist example of a means to assist in making NDFs















Terms of reference

- Background on the IUCN checklist
- General description
- Progress since publication
- How it has been used and problems
- Principles thought to be important

The IUCN Species Survival Commission

Guidance for CITES Scientific Authorities

Checklist to assist in making non-detriment findings for Appendix II exports

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Structure of talk

Why do we need guidance? Principles on which checklist based What did we develop & how to use it? Levels of uptake Conclusions & next steps



Why do we need guidance?

• Significant trade reviews Phase 1-3:



Recent Significant trade recommendations for taxa/country: 11 urgent concern and 42 possible concern Also call for mgmt plans..... Doc. AC 22 summary record

• Uplisting proposals:





What are the difficulties with making NDFs?

An issue of:

- Capacity?
 - Link with & educate universities & NGOs
- Resources?
 - Link with consumers certification
 - Local communities, traders, NGOs and university students
 - Training funds
- Costs/ benefits?
 - Conservation cost/ benefits
 - livelihood cost/benefits
- Governance/Political will?



Principles of checklist development

- Focus on Appendix II species
- Aim to avoid:
 - Unplanned range reduction
 - Long-term population decline
 - Changes leading to inclusion in Appendix I
- Include:
- Socio-economic factors
 - Addis principles 1, 2, 4, 7, 9 and 12 covered
 - "Principles may need further consideration 5, 6, 8, 11"(ecosystem services, inter-disciplinary research, international co-operation, minimize waste & optimize benefit (Res conf. 13.2 rev CoP14)



Checklist aims:

- not to replace any systems in place.
- to provide a general framework for parties without systematic tools in place for making NDFS.
- to be purely qualitative.
- to provide a range of points to be considered only some relevant to any particular case/ region.
- to allow a visual representation and comparison of results.
- to allow a rapid assessment.
- to promote adaptive management by identifying areas where more management effort is needed.
- to provide a basis for communication between SA and MA Staff and exporter/importer countries
- to encourage consideration on NDF on basis of total national harvest.
- was an early stage in an evolving process



Checklist components

Table 1 Summary of national harvest

- Provides a summary of harvest quantities
- Examines regulated vs unregulated harvest
- Rows arranged according to increasing levels of impact of harvests eg collection of parts to eggs to adults
- Different tables for animals and plants
- Fish not well considered



Summary of National Harvest Table 1 - Animals. Summary of Harvest Regime for Animal Species (or population of an animal species)

Species: Date (of making Non-detriment Finding): Name:

Country (if applicable State or Province): Period to be covered by finding: Position in Scientific Authority:

National status:

Other:

Is the species endemic, found in a few countries only, or widespread? Conservation status of the species (if known): IUCN Global status:

Commercial Demographic segment removed from Relative level of off-take destination(s) (numbers wild population Reason for off-take (include actual number or Type of Main Degree of and percentages quantity if known) harvest control if known) product Adult Adult Non-Un-Sub-Com-Inter-High Eggs Juvs. Low Medium Others Local National females selective mercial males know n sistence national a) Regulated 1.1. Captive b) Illegal or breeding unmanaged 1.2. Nona) Regulated lethal harvesting b) Illegal or for parts/ unmanaged products a) Regulated 1.3. Removal for b) Illegal or Ranching unmanaged 1.4. Pest or a) Regulated problem animal b) Illegal or unmanaged control a) Regulated 1.5. Live b) Illegal or capture unmanaged a) Regulated 1.6. Killing of individual b) Illegal or unmanaged

Checklist components

Table 2 Factors affecting management of the harvesting regime

Designed on basis of 5 answers per question, each including "unknown" category

The answers run from those with least to most impact on the population (scores 1-5)

Also different table for plants and animals



FACTORS AFFECTING MANAGEMENT OF THE HARVESTING REGIME

Biol	ogical characteristics: Animals only							
	2.1. Life history: What is the species'	High reproductive rate,	long-lived					
	life history?	High reproductive rate,	short-lived					
		Low reproductive rate,	long-lived					
		Low reproductive rate,	short-lived					
		Uncertain						
	2.2. Ecological adaptability: To what extent Is the species adaptable	BIOLOGY	Life history (tolerance	r/K), Niche bread	dth, Dispersal, Human			
	(habitat, diet, environmental tolerance etc)?	STATUS	National distr National pop Major threat	ional distribution, National abundance, ional population trend, Information quality, jor threat				
	2.3 Dispersal efficiency: How efficient is the species' dispersal mechanism at leavelife storage?	MANAGEMENT	lllegal harves Aim of harve	Illegal harvest, Management history, Management Aim of harvest, Quotas				
	key me stages?	CONTROL	Harvest in P access harve	in PA, Harvest is strong tenure, Open arvest, confidence in harvest managemen				
	2.4. Interaction with humans: Is the	MONITORING	Methods, confidence in monitoring					
	species tolerant to human activity other than harvest?	INCENTIVES	Effect of han incentives	Effect of harvest, Species and Habitat conservation incentives				
		PROTECTION	%protected f protection,	from harvest, effectiveness of regulation of harvest				





Using the checklist to assess a harvest

Python curtus



Uptake.....

• 5 responses & training to 100+ Parties

	Challenges (Cons)	In Favour (Pros)
Too qualitative	Lack of quantitative descriptors	Can be applicable across taxa & stimulates discussion
Radar Plots	Radar plot not useful US	Can provide visual context
Training Tool		USA, UK; TRAFFIC SA
Checklist/ reference tool		CA, CU, CZ, US

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Certifier cheeringt	EU SRG Guidance						
	http://ec.europa.eu/environment/cit						
	es/pdf/srg/guidelines.pdf						
able 1 Harvest characteristics	Harvest characteristics						
Harvest type	Types						
Demographic segment of	Volumes						
Relative harvest volume	Segment of population						
Regulated/ unregulated	Trends						
	Data quality						
`able 2							
liological characteristics	Species characteristics						
Life history/ Life form	Life history characteristics						
Ecological adaptability or	Distribution						
Dispersal efficiency	Habitat adaptability						
Human tolerance/ Habitat	Migratory/shared						
	Risk of mortality after capture and						
	before export (for species where						
lational Status	Biological status						
National distribution	Abundance						
National abundance	Present distribution						
	Trans 1						
National population trend	Irena						
National population trend Information quality	Irend Quality of data						
National population trend Information quality Major threat	Quality of data						
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Factors common to different checklists:

EU Checklist

Addis Principles

Standards and criteria for certification of medicinal plants (ISSC MAP)

National vs local harvest

Harvest for trade should be considered in context of total national harvest:

NH = LH1 + LH2 +LH3 + Illegal harvest + mortality (capture+ transport)

Localised harvesting – provide site specific data More general harvests – assess at national level

ADAPTIVE Management: Precautionary harvest \rightarrow collect further data \rightarrow refine harvest levels

Collecting & analysing data:

- Comprehensive inventories & modelling
- Use of indices
- Rules of thumb
- Participatory experiments and monitoring
- Grounded questionnaire survey
- Modelling

Conclusions

UGAND.

Sustainable harvest depends on:

- Biological or life-history characteristics
- Habitat characteristics
- Nature & selectivity of harvest
- Management regime including:
 - resource ownership
 - proportion of the species' range protected

Future considerations

- Collection of harvest location data
- Role of the species in the ecosystem (Table 1)
- Genetic effects of harvests (male trophy hunts)
- Climate change effects
- Certification promoting role of NDFS

Next steps

- Guidance should:
- Be pragmatic
- Aim to encourage monitoring and adaptive management
- Establish initial precautionary harvest levels
- Acknowledge a variety of information sources whilst assessing data quality
- Recognise the role of sustainable trade in providing incentives for conservation
- Use indicators developed as part of strategic vision

14 MANAGEMENT - Quotas	1
15 CONTROL - Harvest in PA	4
16 CONTROL - Harvest in strong tenure	1
17 CONTROL – Open access harvest	1
18 CONTROL - Confidence in harvest management	4
19 MONITORING - Monitoring method	4
20 MONITORING - Confidence in monitoring	4
21 INCENTIVES - Effect of harvest	1
22 INCENTIVES - Species conservation incentive	3
23 INCENTIVES - Habitat conservation incentive	4
24 PROTECTION - Proportion protected from	
harvest	2
25 PROTECTION - Effectiveness of protection	1
26 PROTECTION - Regulation of harvest	5