

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



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RAPID ASSESSMENT RISK MATRIX FOR APPENDIX I-LISTED TAXA

1. This document has been submitted by the Secretariat on behalf of UNEP-WCMC in relation to agenda item 11 (Appendix-I listed species).*
2. To address part a) i) of Decision 18.28, the CITES Secretariat engaged the UN Environment Programme World Conservation Monitoring Centre (UNEP-WCMC) to conduct a rapid assessment of the conservation status of, and legal and illegal trade in species and subspecies included in Appendix I. This provisional assessment was conducted by UNEP-WCMC in collaboration with the International Union for Conservation of Nature (IUCN). Input was provided by an informal technical advisory group to assist the Secretariat on the implementation of Decision 17.22 on Appendix-I listed species that was formed at the joint session of the 29th meeting of the Animals Committee and of the 23rd meeting of the Plants Committee (AC29/PC23, Geneva, July 2017).
3. The aim of the rapid assessment was to identify and prioritise Appendix-I taxa that could potentially benefit from future action under CITES.
4. Based on the feedback provided from the informal technical advisory group, UNEP-WCMC provided three alternative approaches to 'scoring' all Appendix I taxa based on their relative extinction risk, threat from trade, biological vulnerability and management effort ([AC31 Doc.9/PC25 Doc.10](#)). These approaches to scoring were 'unweighted', weighted by 'threat from trade' and weighted by both 'threat from trade' and 'existing CITES measures'. The results of the rapid assessment were made available as information documents to AC31 and PC25 ([AC31. Inf. 6/PC25 Inf. 8](#)) with full taxon output provided as a separate [Excel document](#).
5. The three scoring approaches were intended to be mutually exclusive. However, in the Addendum to AC31 Doc. 9/PC25 Doc.10, the Secretariat noted that a list of Appendix I priority taxa for potential further in-depth review had been compiled based on taxa that had scored highly across all three approaches.
6. Limited time was available to conduct the rapid assessment, and the results presented to AC31/PC25 were intended as a first step for consideration by the Committees. A joint AC/PC in-session working group for Appendix I-listed species agreed that the methodology should continue to be refined. One suggestion proposed by Mexico was to consider the species within a risk matrix according to their extinction risk and threat from trade.
7. This document and the accompanying PDF document ('Appendix I taxa_metadata.pdf') provides the provisional results from applying a 'risk matrix' approach to the existing criteria and data presented in AC31 Doc.9/PC25 Doc.10. This categorises species into one of nine categories in the risk matrix (A-I),

* *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.*

which identified a further 31 species that were not previously included in the 'top 50' scoring approaches. Since the risk matrix did not consider the presence of management measures, many of these 31 taxa already had existing measures in place and so may benefit from different actions to the other provisional 'higher risk' taxa. Whilst the *presence* of measures does not indicate how effectively they are implemented or enforced, it is important to ensure that taxa without management measures are not overlooked in favour of more high-profile taxa.

8. It has not been possible to further consider additional criteria for prioritising Appendix-I listed species, such as taking into account captive breeding impacts at this time.

Methods

The Appendix I rapid assessment presented in [AC31 Doc.9/PC25 Doc.10](#) scored all Appendix I taxa on their relative extinction risk, threat from trade, biological vulnerability and management effort (see Table 1 for criteria) and generate an overall numerical mean score for each species.

Table 1. Criteria used to assess Appendix I-listed taxa (see Table A1 for criteria parameters). Full methodology available via [AC31 Doc.9/PC25 Doc.10](#).

Category	Criteria
1. Extinction risk	1.1 Red List status
	1.2 Population trend
2. Threat from trade	2.1 Threat from use
	2.2 In legal trade
	2.3 In illegal trade
3. Biological vulnerability	3.1 Range size
	3.2 Generation length
4. Management effort	4.1 Compliance with CITES
	4.2 Existing measures under CITES
	4.3 Conservation actions in place

In order to explore a possible alternative approach to identifying the Appendix I-listed taxa that could potentially benefit from further CITES action, the criteria scores resulting from the Appendix I rapid assessment were compiled into a risk matrix (Table 2). This grouped species with similar levels of vulnerability and threat from trade based on the existing data and criteria produced for AC31/PC25 (see [Excel document](#) for taxon-level criterion scores).

Following this risk matrix approach, taxa were assigned to one of nine groups based on their mean scores calculated across the relevant criteria for the following:

- (a) Vulnerability (categories 1 and 3)¹; and
- (b) Threat from trade (category 2)

Note that the mean scores were only calculated from criteria for which a score was available.

The risk matrix considered species with and without existing CITES management measures (criterion 4.2, Table 1) separately, since different actions may be appropriate for each group. Taxa were considered to have CITES measures in place if they were covered by at least one of the following at either the specific taxon or higher taxonomic level: CITES Resolution(s), CITES Decision(s), CITES Task Force, and/or had CoP-approved quotas in place (quotas defined in Resolutions or listing annotations).

Table 2: Trade vulnerability risk matrix. Taxa were assigned to a matrix group according to their mean criteria scores for vulnerability (categories 1 and 3 in the rapid assessment) and threat from trade (category 2 in the rapid assessment). Colours refer to higher (orange), moderate (yellow) or lower (grey) risk.

		Threat from trade		
		High (>0.66)	Moderate (0.33-0.66)	Low (<0.33)
Vulnerability	High (>0.66)	A	B	C
	Moderate (0.33-0.66)	D	E	F
	Low (<0.33)	G	H	I

¹ Where no data were available for categories 1 and 3 (e.g. the taxon did not have a Red List assessment), the taxon was precautionarily classified as having a 'moderate' vulnerability.

Results

The overall number of taxa within each of the nine matrix groups is summarised by taxonomic group in Table 3. The matrix group for each taxon is available in column 'Provisional risk from international trade based on risk matrix' of the accompanying PDF document ('Appendix I taxa_metadata.pdf') following the syntax used in Table 2.

Table 3. Number of taxa assigned to each matrix group based on their mean criteria scores, summarised by taxonomic group. Groups are further disaggregated according to evidence of CITES measures in place. See Table 2 for matrix groups. Colours refer to higher (orange), moderate (yellow) or lower (grey) risk.

Matrix group	Taxonomic group	All taxa in group	Taxa without CITES measures	Taxa with CITES measures
A (n=35 species)	Mammals	17	2	15
	Birds	10	7	3
	Reptiles	6	2	4
	Fish	2	2	0
B (n=39 species)	Mammals	14	12	2
	Birds	1	1	0
	Reptiles	16	6	10
	Fish	2	0	2
C (n=516 species)	Plants	6	6	0
	Mammals	158	133	25
	Birds	76	70	6
	Reptiles	42	29	13
	Amphibians	17	0	17
	Fish	8	2	6
	Inverts	45	45	0
D (n=17 species)	Plants	170	170	0
	Mammals	9	4	5
	Birds	4	4	0
	Reptiles	1	0	1
E (n=34 species)	Plants	3	3	0
	Mammals	15	7	8
	Birds	4	4	0
	Reptiles	10	5	5
F (n=351 species)	Plants	5	5	0
	Mammals	84	73	11
	Birds	46	40	6
	Reptiles	12	8	4
	Amphibians	2	0	2
	Fish	4	3	1
	Inverts	12	10	0
G (n=9 species)	Plants	191	190	1
	Mammals	3	0	3
	Birds	4	4	0
H (n=23 species)	Reptiles	2	0	2
	Mammals	8	4	4
	Birds	5	5	0
	Reptiles	8	5	3
I (n=106 species)	Plants	2	2	0
	Mammals	30	21	9
	Birds	12	12	0
	Reptiles	6	6	0
	Amphibians	5	0	5
	Inverts	19	19	0
Plants	34	34	0	

Based on the results of the provisional risk matrix, 74 taxa were identified as being at 'higher' risk on the basis of high vulnerability (high extinction risk and/or biological vulnerability) and high or moderate threat from trade. Of these taxa, 38 did not have any of the relevant CITES measures in place; 36 taxa had CITES measures in place at the level of the taxon or at a higher taxonomic level. It should be noted that this refers to the *presence* of CITES measures and does not provide any assessment of the level of action taken to implement or enforcement these measures.

The 'higher risk' taxa without and with CITES measures are included in Tables 4 and 5 respectively, along with the following metadata (respective criteria in parentheses):

- Red List status and population trend (criteria 1.1 and 1.2);
- Evidence of direct international trade 2014-2018² (criterion 2.2);
- Evidence of illegal wildlife trade according to the TRAFFIC Wildlife Trade Portal (reported as 'seizure' or 'smuggling') and/or reported by CITES Parties in their illegal trade reports (2014-2018) (criterion 2.3);
- Evidence of potential compliance issues (here considered to be (a) direct and/or indirect commercial trade (purpose 'T') in wild-sourced (source 'W') specimens and/or (b) direct trade exceeding CoP-approved quotas 2014-2018) (criterion 4.1);
- Whether the taxon was considered threatened by biological resource use according to the IUCN assessment (threat categories 5.1.1, 5.2.1, 5.3.2, 5.4.2) (criterion 2.1);
- The likelihood of the taxon being threatened by international trade based on its Red List assessment (following methods detailed in Challender *et al.* (in review)³;
- CITES measures in place (Table 5 only) (criterion 4.2); and
- The final scores for each of the three alternative weighted and unweighted ranked approaches assessed in AC31 Doc. 9/PC25 Doc.10. *Note that these approaches are independent from one another and are presented together here to allow comparison only. They cannot be meaningfully combined.*

² **Data parameters:**

Direct trade only

Report type: Gross exports (the quantities reported by the exporter and importer were compared and the larger quantity was used)

Year range: 2014-2018

Trade terms: baleen, bark, bodies, bones, bone carvings, bone pieces, carapaces, carvings, caviar, chips, cloth, cultures, derivatives (*Moschus* and plants only), dried plants, eggs, eggs (live), extract, fins, flowers, flower pots, fruit, furniture, gall, gall bladders, horn carvings, horn pieces, horns, ivory pieces, ivory carvings, leaves, live, logs, meat, musk, plates, plywood, powder, raw corals, roots, sawn wood, scales, seeds, shells, skin pieces, skins, skeletons, skulls, stems, teeth, timber, timber carvings, timber pieces, trophies, tusks, veneer, wax, wood product

Units of measure: number (unit = blank) and weight (kg); additionally, for plants: length (m), area (m²) and volume (m³ and l)

Source codes: ranches (R), unknown (U), wild (W) and no source reported

Purpose codes: all except scientific (S)

Taxa with no reported trade from wild sources (sources 'R', 'U', 'W' and unreported) in **any** term or unit, and which were not reported in seizures under criterion 2.3, were deprioritised (see "scoring criteria").

Full descriptions are available for "trade terms" (i.e. descriptions of specimens in trade) in the Annex to Notif. 2017/006, and for source and purpose codes in Res. Conf. 12.3 (Rev. CoP18).

³ Available as a pre-print at: <https://www.researchsquare.com/article/rs-1858556/v1>

Table 4. CITES Appendix I taxa provisionally classified as ‘higher risk’ on the basis of their vulnerability and threat from trade that **did not have CITES measures in place**. A summary of international wild-sourced trade (source codes R, U, W and unreported) based on direct gross exports 2014-2018, evidence of illegal trade, threat from trade, evidence of potential compliance issues and the taxon’s relative ranks based on the three scoring approaches assessed in [AC31. Inf. 6/PC25 Inf. 8](#) are also provided.

Family	Name	Year of listing in Appendix I	Red List status ^a	Legal international trade 2014-2018 (gross exports)	Evidence of illegal trade	BRU is a threat	Likelihood of international trade as a threat ^b	Evidence of potential compliance issue	Ranks ^c
Mammals									
Artiodactyla									
Bovidae	<i>Addax nasomaculatus</i> (Addax)	1983	CR (↓)	1 trophy (R; T)		✓	L	✓	20, 52, 49
	<i>Bos gaurus</i> (Gaur)	1975	VU (↓)		✓	✓	L		130, 100.5, 93.5
	<i>Capricornis sumatraensis</i> (Mainland serow)	1975	VU (↓)*		✓	✓	L		125, 87, 82.5
	<i>Hippotragus niger variani</i> (Giant sable antelope)	1975	CR (↓)	1 live (W, E), 1 skin (W, H), 1 trophy (R, H)	✓		-		24.5, 40.5, 24.5
Cervidae	<i>Blastocerus dichotomus</i> (Marsh deer)	1975	VU (↓)		✓	✓	U		77, 70.5, 74
Carnivora									
Mustelidae	<i>Lontra longicaudis</i> (Long-tailed otter)	1975	NT (↓)		✓	✓	U	✓	7, 9, 7
	<i>Lutrogale perspicillata</i> (Indian smooth-coated otter)	2019	VU (↓)		✓	✓	U		36.5, 49.5, 51
	<i>Pteronura brasiliensis</i> (Giant brazilian otter)	1975	EN (↓)		✓	✓	U		58, 59, 65
Primates									
Atelidae	<i>Alouatta pigra</i> (Guatemalan howler)	1975	EN (↓)*		✓	✓	U		40.5, 26.5, 16.5
Cercopithecidae	<i>Pygathrix nemaeus</i> (Red-shanked douc)	1985	EN (↓)*	6 live (W; Z)	✓	✓	L		65, 37, 41
Hylobatidae	<i>Hylobates pileatus</i> (Capped gibbon)	1975	EN (↓)*		✓	✓	U		40.5, 26.5, 16.5
	<i>Symphalangus syndactylus</i> (Siamang)	1975	EN (↓)*	1 live (?; Z)	✓	✓	U		100, 72, 67
Pitheciidae	<i>Cacajao calvus</i> (Bald-headed uacari)	1975	VU (↓)*	6 live (W; Z)		✓	U		66, 73, 55.5
Sirenia									
Trichechidae	<i>Trichechus senegalensis</i> (African manatee)	2013	VU (?)	18 live (W; T (50%)/ Z (50%))			L	✓	6, 13.5, 6
Birds									
Gruiformes									
Gruidae	<i>Grus leucogeranus</i> (Siberian crane)	1975	CR (↓)	1 body (U; E)	✓	✓	I		50.5, 62.5, 71
Psittaciformes									
Cacatuidae	<i>Cacatua moluccensis</i> (Moluccan cockatoo)	1990	VU (↓)	12 live (mainly unreported source and purpose)		✓	U		31, 54, 61
	<i>Cacatua sulphurea</i> (Lesser sulphur-crested cockatoo)	2005	CR (↓)	11 live (U/unknown; mainly T)		✓	L	✓	16, 35, 43
Loriidae	<i>Eos histrio</i> (Red-and-blue lory)	1995	EN (↓)		✓	✓	L		43.5, 45.5, 55.5
Psittacidae	<i>Amazona auropalliata</i> (Yellow-naped amazon)	2003	EN (↓)	14 live (mainly unreported source and purpose)		✓	L	✓	11.5, 22, 32

Family	Name	Year of listing in Appendix I	Red List status ^a	Legal international trade 2014-2018 (gross exports)	Evidence of illegal trade	BRU is a threat	Likelihood of international trade as a threat ^b	Evidence of potential compliance issue	Ranks ^c
	<i>Amazona finschi</i> (Lilac-crowned amazon)	2005	EN (↓)		✓	✓	L	✓	3, 3.5, 4
	<i>Amazona oratrix</i> (Yellow-headed amazon)	2003	EN (↓)	25 live (mainly unreported source and purpose)	✓	✓	I	✓	21, 24, 39
	<i>Amazona vinacea</i> (Vinaceous amazon)	1975	EN (↓)		✓	✓	U		83.5, 64.5, 74
Reptiles									
Crocodylia									
Crocodylidae	<i>Crocodylus cataphractus</i> (African sharp-nosed crocodile)	1975	CR (↓)		✓	✓	L		50.5, 62.5, 71
	<i>Crocodylus siamensis</i> (Siamese crocodile)	1975	CR (↓)		✓	✓	L	✓	9, 16, 11
	<i>Tomistoma schlegelii</i> (False gavia)	1975	VU (↓)*	1 live (U; Z)	✓	✓	U	✓	18, 23, 33
Gavialidae	<i>Gavialis gangeticus</i> (Fish-eating crocodile)	1975	CR (↑)		✓		I		103, 121, 119
Sauria									
Gekkonidae	<i>Gonatodes daudini</i> (Grenadines clawed gecko)	2019	CR (→)			✓	L		10, 44, 40
Iguanidae	<i>Brachylophus fasciatus</i> (Fiji banded iguana)	1981	EN (↓)		✓		U		28, 61, 62
	<i>Cyclura cornuta</i> (Rhinoceros iguana)	1981	EN (↓)		✓	✓	I		43.5, 45.5, 55.5
	<i>Cyclura lewisi</i> (Grand cayman iguana)	1981	EN (↑)		✓	✓	I		83.5, 64.5, 74
Fish									
Cypriniformes									
Cyprinidae	<i>Probarbus jullieni</i> (Esok)	1975	CR (↓)		✓	✓	L		24.5, 20, 24.5
Osteoglossiformes									
Osteoglossidae	<i>Scleropages formosus</i> (Arowana)	1975	EN (↓)	287 live (R (77%)/ W (33%); T)	✓		L	✓	1, 2, 3
Plants									
Cycadales									
Zamiaceae	<i>Encephalartos lehmannii</i> (Karoo cycad)	1977	NT (↓)*	25 live (W; T)		✓	L	✓	5, 11, 9
Euphorbiales									
Euphorbiaceae	<i>Euphorbia decaryi</i> (Wrinkled leaf spurge)	1990	EN (↓)*		✓	✓	I		85.5, 34, 15
Liliales									
Liliaceae	<i>Aloe pillansii</i> (Bastard quiver tree aloe)	1975	CR (↓)*		✓		I		24.5, 40.5, 24.5
Orchidales									
Orchidaceae	<i>Paphiopedilum armeniacum</i> (Apricot orange paphiopedilum)	1990	EN (↓)*		✓	✓	L		67, 74, 84
	<i>Paphiopedilum dayanum</i> (Day's slipper orchid)	1990	CR (?)	1 live (W; Q)		✓	L		48.5, 81.5, 76.5
	<i>Paphiopedilum rothschildianum</i> (Rothschild's slipper orchid)	1990	CR (↓)	1 live (W; Q)		✓	L		48.5, 81.5, 76.5

^a IUCN Red List category: CR = Critically Endangered; EN = Endangered; VU = Vulnerable; NT = Near Threatened; LC = Least Concern; - = not assessed.

Red List population trend: ↑ = increasing ↓ = decreasing; → = stable; ? = unknown.

* Red List assessment over ten years old (assessed <2012)

^b Likelihood of international trade as a threat (Challender *et al.* (in review)): L = likely; I = insufficient information; U = unlikely; - = not assessed by Challender *et al.*

^c Unweighted, weighted by 'threat from trade (category 2) and weighted by 'threat from trade' (category 2) and 'existing CITES measures' (criterion 4.2); as detailed in [AC31. Inf. 6/PC25 Inf. 8.](#)

Table 5. CITES Appendix I taxa provisionally classified as ‘higher risk’ on the basis of their vulnerability and threat from trade that **did have CITES measures in place**. A summary of international wild-sourced trade (source codes R, U, W and unreported) based on direct gross exports 2014-2018, evidence of illegal trade, threat from trade, evidence of potential compliance issues, existing CITES measures in place and the taxon’s relative ranks based on the three scoring approaches assessed in [AC31](#). [Inf. 6/PC25](#) [Inf. 8](#) are also provided.

Family	Name	Year of listing in Appendix I	Red List status ^a	Legal international trade (gross exports)	Evidence of illegal trade	BRU is a threat	Likelihood of international trade as a threat ^b	Evidence of potential compliance issue	CITES measures	Ranks ^c
Mammals										
Carnivora										
Felidae	<i>Panthera leo</i> (Lion) †	1977	VU (↓)		✓	✓	L	✓	Decisions 17.226; 18.100-18.109; Decisions 18.244-18.250; listing annotations	130, 100.5, 159
	<i>Panthera pardus</i> (Leopard)	1975	VU (↓)	2902 trophies, >200 skins and skulls and >100 bones (all mainly W and H). Smaller quantities of other terms	✓	✓	L	✓	Decisions 17.226; 18.100-18.109; Decisions 18.165-18.170; Decisions 18.254; 18.255; Resolution Conf. 10.14 (Rev. CoP16); Resolution Conf. 12.5 (Rev. CoP18); Resolution Conf. 9.21 (Rev. CoP18)	36.5, 12, 51
	<i>Panthera tigris</i> (Tiger)	1975	EN (↓)	14 live (mainly unreported/ unknown source; unreported (38%)/ Z (31%)), 1 body (U; E), 1 skin (W, E)	✓	✓	L	✓	Decisions 17.226; 18.100-18.109; Resolution Conf. 12.5 (Rev. CoP18)	45, 47, 92
Ursidae	<i>Helarctos malayanus</i> (Malayan sun bear)	1979	VU (↓)	5 teeth (W, Q)	✓	✓	L		Resolution Conf. 10.8 (Rev. CoP14)	39, 21, 48
	<i>Ursus thibetanus</i> (Asian black bear)	1979	VU (↓)	5 live (mainly R; Z), 1 skin (W, H)	✓	✓	L			22, 8, 12
Perissodactyla										
Rhinocerotidae	<i>Ceratotherium simum simum</i> (Southern white rhinoceros) ††	1975	NT (↓)	56 live, 26 trophies (all W; mainly H). Smaller quantities of other terms	✓		L		Decisions 18.110-18.116; Resolution Conf. 9.14 (Rev. CoP17)	70, 28, 47
Pholidota										
Manidae	<i>Manis crassicaudata</i> (Indian pangolin)	2017	EN (↓)		✓	✓	L		Decisions 18.238-18.243; Resolution Conf. 17.10	121, 76, 100
	<i>Manis culionensis</i> (Philippine pangolin)	2017	CR (↓)		✓	✓	L			63, 57, 86
	<i>Manis gigantea</i> (Giant ground pangolin)	2017	EN (↓)	7706 kg scales (W, T)	✓	✓	L	✓		2, 1, 1
	<i>Manis javanica</i> (Malayan pangolin)	2017	CR (↓)		✓	✓	L			211, 94.5, 119
	<i>Manis pentadactyla</i> (Chinese pangolin)	2017	CR (↓)		✓	✓	L			211, 94.5, 119

Family	Name	Year of listing in Appendix I	Red List status ^a	Legal international trade (gross exports)	Evidence of illegal trade	BRU is a threat	Likelihood of international trade as a threat ^b	Evidence of potential compliance issue	CITES measures	Ranks ^c
	<i>Manis temminckii</i> (Cape pangolin)	1975	VU (↓)	2 bodies, 1 trophy, 1 live (mainly W; mainly E)	✓	✓	L			77, 70.5, 93.5
Primates										
Hominidae	<i>Gorilla gorilla</i> (Gorilla)	1975	CR (↓)	1 live (W, B)	✓	✓	U		Resolution Conf. 13.4 (Rev. CoP18)	52.5, 40.5, 68
	<i>Pan paniscus</i> (Bonobo)	1977	EN (↓)		✓	✓	I			73.5, 53, 80
	<i>Pan troglodytes</i> (Chimpanzee)	1977	EN (↓)	7 live, 1 skull (all U (50%)/ W (50%); mainly Z)	✓	✓	I	✓		11.5, 7, 10
	<i>Pongo pygmaeus</i> (Bornean orangutan)	1975	CR (↓)	1 live (W, Q)	✓	✓	L			15, 10, 24.5
Proboscidea										
Elephantidae	<i>Elephas maximus</i> (Asian elephant)	1975	EN (↓)*	8 live, 8 carvings (all mainly U; Q (56%)/ P (44%))	✓	✓		✓	Decisions 18.226-18.227; Resolution Conf. 10.10 (Rev. CoP18)	36.5, 15, 55.5
Birds										
Coraciiformes										
Bucerotidae	<i>Rhinoplax vigil</i> (Helmeted hornbill)	1975	CR (↓)		✓	✓	L		Decisions 18.266-18.269; Resolution Conf. 17.11	109, 81.5, 133.5
Passeriformes										
Sturnidae	<i>Leucopsar rothschildi</i> (Bali myna)	1975	CR (↓)		✓	✓	L		Decisions 18.256-18.259	109, 81.5, 106
Psittacidae	<i>Psittacus erithacus</i> (Grey parrot)	2017	EN (↓)	899 live (mainly W; mainly T)	✓	✓	L	✓	Decisions 17.256 (Rev. CoP18); 17.258 (Rev. CoP18)	13, 3.5, 14
Reptiles										
Testudines										
Cheloniidae	<i>Caretta caretta</i> (Loggerhead)	1981	VU (↓)	5 live (W, mainly N)	✓		I		Decisions 18.210-18.217	75, 91, 106
	<i>Chelonia mydas</i> (Green turtle)	1981	EN (↓)*	4 live, 2 skulls, 1 bone, 1 live (all W; mainly E and N)	✓		I			61, 48, 63
	<i>Eretmochelys imbricata</i> (Hawksbill turtle)	1981	CR (↓)*	28 carvings, 2 bodies, 2 carapaces (mainly W; P (48%)/ unreported (31%))	✓	✓	L	✓		14, 5, 8
	<i>Lepidochelys olivacea</i> (Olive ridley)	1981	VU (↓)*	5 live (W, Z)	✓	✓	U			307.5, 118.5, 141
Dermochelyidae	<i>Dermochelys coriacea</i> (Leatherback)	1977	VU (↓)		✓	✓	I		Decisions 18.210-18.217	297.5, 126, 159

Family	Name	Year of listing in Appendix I	Red List status ^a	Legal international trade (gross exports)	Evidence of illegal trade	BRU is a threat	Likelihood of international trade as a threat ^b	Evidence of potential compliance issue	CITES measures	Ranks ^c
Emydidae	<i>Glyptemys muhlenbergii</i> (Bog turtle)	1992	CR (?)*		✓	✓	U		Decisions 18.286-18.291; Resolution Conf. 11.8 (Rev. CoP17)	587.5, 228.5, 319.5
Geoemydidae	<i>Cuora bourreti</i> (Bourret's box turtle)	2019	CR (↓)		✓	✓	L		Decisions 18.286-18.291; listing annotations; Resolution Conf. 11.8 (Rev. CoP17)	103, 66, 119
	<i>Geoclemys hamiltonii</i> (Black pond turtle)	1975	EN (↓)		✓		L		Decisions 18.286-18.291; Resolution Conf. 11.8 (Rev. CoP17)	287, 155.5, 184.5
Platysternidae	<i>Platysternon megacephalum</i> (Big-headed turtle)	2013	EN (?)*	4 live (U, Z)	✓		I		Decisions 18.286-18.291; Resolution Conf. 11.8 (Rev. CoP17)	335, 124.5, 125.5
Testudinidae	<i>Astrochelys radiata</i> (Radiated tortoise)	1975	CR (↓)*		✓	✓	L	✓	Decisions 18.286-18.291; Resolution Conf. 11.8 (Rev. CoP17)	27, 43, 71
	<i>Astrochelys yniphora</i> (Ploughshare tortoise)	1975	CR (↓)*	14 (W, B)	✓	✓	L			34, 36, 66
	<i>Geochelone platynota</i> (Burmese starred tortoise)	2013	CR (?)*		✓	✓	I			134, 55, 69
	<i>Pyxis arachnoides</i> (Spider tortoise)	2005	CR (↓)*	1 live (U, Z)	✓	✓	L			161.5, 104, 128
	<i>Testudo kleinmanni</i> (Egyptian tortoise)	1995	CR (↓)*		✓	✓	L			153.5, 92, 112.5
Fish										
Perciformes										
Sciaenidae	<i>Totoaba macdonaldi</i> (Macdonald's weakfish)	1977	CR (↓)*		✓	✓	L		Decisions 18.292-18.295	80.5, 60, 112.5
Pristidae	<i>Pristis pectinata</i> (Comb shark)	2007	CR (↓)		✓	✓	L		Decisions 18.218-18.225; Resolution Conf. 12.6 (Rev. CoP18)	95, 113.5, 133.5

^a IUCN Red List category: CR = Critically Endangered; EN = Endangered; VU = Vulnerable; NT = Near Threatened; LC = Least Concern; - = not assessed.

Red List population trend: ↑ = increasing ↓ = decreasing; → = stable; ? = unknown.

* Red List assessment over ten years old (assessed <2012)

^b Likelihood of international trade as a threat (Challender *et al. (in review)*): L = likely; I = insufficient information; U = unlikely; - = not assessed by Challender *et al*

^c Unweighted, weighted by 'threat from trade (category 2)' and weighted by 'threat from trade' (category 2) and 'existing CITES measures' (criterion 4.2); as detailed in [AC31. Inf. 6/PC25 Inf. 8.](#)

† Populations of India †† Except for the populations of South Africa and Eswatini, which are included in Appendix II for the exclusive purpose of allowing international trade in live animals to appropriate and acceptable destinations and hunting trophies

Of the 74 taxa provisionally classified as 'higher risk' 43 were also ranked within the top 50 of at least one of the scoring approaches explored in AC31. Inf. 6/PC25 Inf. 8 (Table 6); 31 provisional 'higher risk' taxa were not ranked within the top 50 of any of the previous scoring approaches. Of particular note, the risk matrix identified a further five *Manis* (pangolin) species and seven Testudines (tortoises and turtles) that were not previously included within the top 50 of any of the previous three scoring approaches in AC31. Inf. 6/PC25 Inf. 8.

Over two thirds (21 taxa) of the taxa not previously included with the top 50 of the previous scoring approaches had existing CITES measures in place, and a further nine taxa had management measures in place according to their IUCN Red List. Taxa without existing management measures were scored more highly in the previous scoring approaches to highlight taxa that may risk being overlooked. In contrast, management measures were not directly considered in the risk matrix, however the provisionally classified 'higher risk' taxa were provided in separate tables according to whether they did (Table 5) or did not (Table 4) have CITES measures in place, since different actions may be appropriate for each group.

Table 6. CITES Appendix I taxa provisionally included in the top 50 of at least one of the scoring approaches explored in AC31. Inf. 6/PC25 Inf. 8 (Rank options 1-3) and/or provisionally classified as 'higher risk' in the risk matrix. Taxa with ranks exceeding 50 under any of the three original scoring approaches are in grey.

Group	Order	Taxon	Rank			Risk matrix
			Option 1	Option 2	Option 3	
Appendix I taxa ranked within the top 50 of at least one scoring approach						
Mammals	Artiodactyla	<i>Addax nasomaculatus</i> (Addax)	20	52	49	Higher
		<i>Hippotragus niger variani</i> (Giant sable antelope)	24.5	40.5	24.5	Higher
		<i>Oryx leucoryx</i> (Arabian oryx)	32	29.5	34	Moderate
	Carnivora	<i>Helarctos malayanus</i> (Malayan sun bear)	39	21	48	Higher
		<i>Lontra longicaudis</i> (Long-tailed otter)	7	9	7	Higher
		<i>Lutra lutra</i> (Common otter)	33	25	37.5	Moderate
		<i>Lutrogale perspicillata</i> (Indian smooth-coated otter)	36.5	49.5	51	Higher
		<i>Panthera pardus</i> (Leopard)	36.5	12	51	Higher
		<i>Panthera tigris</i> (Tiger)	45	47	92	Higher
		<i>Ursus thibetanus</i> (Asian black bear)	22	8	12	Higher
	Cetacea	<i>Neophocaena phocaenoides</i> (Black finless porpoise)	42	116.5	130	Moderate
		<i>Physeter macrocephalus</i> (Sperm Whale)	47	18	37.5	Moderate
	Cingulata	<i>Priodontes maximus</i> (Giant armadillo)	36.5	49.5	51	Moderate
	Perissodactyla	<i>Ceratotherium simum</i> (White Rhinoceros)	63	13.5	35	Moderate
		<i>Ceratotherium simum simum</i> (Southern white rhino)	70	28	47	Higher
	Pholidota	<i>Manis gigantea</i> (Giant ground pangolin)	2	1	1	Higher
		<i>Manis tricuspis</i> (Three-cusped pangolin)	58	19	46	Moderate
	Primates	<i>Alouatta pigra</i> (Guatemalan howler)	40.5	26.5	16.5	Higher
		<i>Gorilla gorilla</i> (Gorilla)	52.5	40.5	68	Higher
<i>Hylobates pileatus</i> (Capped gibbon)		40.5	26.5	16.5	Higher	
<i>Lemur catta</i> (Ring-tailed lemur)		17	17	13	Moderate	
<i>Pan troglodytes</i> (Chimpanzee)		11.5	7	10	Higher	
<i>Pongo pygmaeus</i> (Bornean orangutan)		15	10	24.5	Higher	
<i>Pygathrix nemaeus</i> (Red-shanked douc)		65	37	41	Higher	
Proboscidea	<i>Elephas maximus</i> (Asian elephant)	36.5	15	55.5	Higher	
	<i>Loxodonta africana</i> (African elephant)	125	29.5	82.5	Moderate	
Sirenia	<i>Dugong dugon</i> (Dugong)	54.5	38	36	Moderate	
	<i>Trichechus senegalensis</i> (African manatee)	6	13.5	6	Higher	
Birds	Gruiformes	<i>Grus leucogeranus</i> (Siberian crane)	50.5	62.5	71	Higher
	Psittaciformes	<i>Amazona auropalliata</i> (Yellow-naped amazon parrot)	11.5	22	32	Higher
		<i>Amazona finschi</i> (Lilac-crowned amazon parrot)	3	3.5	4	Higher
		<i>Amazona oratrix</i> (Yellow-headed amazon parrot)	21	24	39	Higher
		<i>Anodorhynchus hyacinthinus</i> (Hyacinth macaw)	29.5	31.5	44.5	Moderate
		<i>Ara macao</i> (Scarlet macaw)	46	51	58	Moderate
		<i>Ara militaris</i> (Military macaw)	29.5	31.5	44.5	Moderate
		<i>Cacatua goffiniana</i> (Goffin's cockatoo)	4	33	42	Moderate

Group	Order	Taxon	Rank			Risk matrix
			Option 1	Option 2	Option 3	
		<i>Cacatua moluccensis</i> (Moluccan cockatoo)	31	54	61	Higher
		<i>Cacatua sulphurea</i> (Lesser sulphur-crested cockatoo)	16	35	43	Higher
		<i>Eos histrio</i> (Red-and-blue lory)	43.5	45.5	55.5	Higher
		<i>Psittacus erithacus</i> (Grey parrot)	13	3.5	14	Higher
Fish	Cypriniformes	<i>Probarbus jullieni</i> (Esok)	24.5	20	24.5	Higher
	Osteoglossiformes	<i>Scleropages formosus</i> (Arowana)	1	2	3	Higher
Reptiles	Crocodylia	<i>Crocodylus cataphractus</i> (African sharp-nosed crocodile)	50.5	62.5	71	Higher
		<i>Crocodylus siamensis</i> (Siamese crocodile)	9	16	11	Higher
		<i>Tomistoma schlegelii</i> (False gavia)	18	23	33	Higher
	Sauria	<i>Brachylophus fasciatus</i> (Fiji banded iguana)	28	61	62	Higher
		<i>Ceratophora erdeleni</i> (Erdelen's horn lizard)	211	228.5	24.5	Moderate
		<i>Ceratophora karu</i> (Karunaratne's horn lizard)	211	228.5	24.5	Moderate
		<i>Cophotis ceylanica</i> (Pygmy lizard)	211	228.5	24.5	Moderate
		<i>Cophotis dumbara</i> (Knuckles pygmy lizard)	24.5	121	24.5	Moderate
		<i>Cyclura cornuta</i> (Rhinoceros iguana)	43.5	45.5	55.5	Higher
		<i>Gonatodes daudini</i> (Grenadines clawed gecko)	10	44	40	Higher
		<i>Varanus nebulosus</i> (Clouded monitor)	211	81.5	24.5	Moderate
	Serpentes	<i>Boa constrictor occidentalis</i> (Argentine boa constrictor)	211	81.5	24.5	Moderate
		<i>Python molurus molurus</i> (Indian python)	211	81.5	24.5	Moderate
	Testudines	<i>Astrochelys radiata</i> (Radiated tortoise)	27	43	71	Higher
		<i>Astrochelys yniphora</i> (Ploughshare tortoise)	34	36	66	Higher
		<i>Chelonia mydas</i> (Green turtle)	61	48	63	Higher
		<i>Eretmochelys imbricata</i> (Hawksbill turtle)	14	5	8	Higher
Inverts	Lepidoptera	<i>Achillides chikae hermeli</i> (Mindoro peacock swallowtail)	211	228.5	24.5	Moderate
Plants	Cycadales	<i>Encephalartos lehmannii</i> (Karoo cycad)	5	11	9	Higher
	Euphorbiales	<i>Euphorbia decaryi</i> (Wrinkled leaf spurge)	85.5	34	15	Higher
	Liliales	<i>Aloe bakeri</i> (Baker aloe)	105	68	5	Moderate
		<i>Aloe pillansii</i> (Bastard quiver tree aloe)	24.5	40.5	24.5	Higher
	Orchidales	<i>Aerangis ellisii</i>	8	6	2	Moderate
		<i>Dendrobium cruentum</i>	211	81.5	24.5	Moderate
		<i>Paphiopedilum dayanum</i> (Day's slipper orchid)	48.5	81.5	76.5	Higher
		<i>Paphiopedilum rothschildianum</i> (Rothschild's slipper orchid)	48.5	81.5	76.5	Higher
Appendix I taxa not ranked within the top 50 of at least one scoring approach						
Mammals	Artiodactyla	<i>Blastocerus dichotomus</i> (Marsh deer)	77	70.5	74	Higher
		<i>Bos gaurus</i> (Gaur)	130	100.5	93.5	Higher
		<i>Capricornis sumatraensis</i> (Mainland serow)	125	87	82.5	Higher
	Carnivora	<i>Panthera leo</i> (Lion)	130	100.5	159	Higher
		<i>Pteronura brasiliensis</i> (Giant brazilian otter)	58	59	65	Higher
	Pholidota	<i>Manis crassicaudata</i> (Indian pangolin)	121	76	100	Higher
		<i>Manis culionensis</i> (Philippine pangolin)	63	57	86	Higher
		<i>Manis javanica</i> (Malayan pangolin)	211	94.5	119	Higher
		<i>Manis pentadactyla</i> (Chinese pangolin)	211	94.5	119	Higher
		<i>Manis temminckii</i> (Cape pangolin)	77	70.5	93.5	Higher
	Primates	<i>Cacajao calvus</i> (Bald-headed uacari)	66	73	55.5	Higher
		<i>Pan paniscus</i> (Bonobo)	73.5	53	80	Higher
		<i>Symphalangus syndactylus</i> (Siamang)	100	72	67	Higher
Birds	Coraciiformes	<i>Rhinoplax vigil</i> (Helmeted hornbill)	109	81.5	133.5	Higher
	Passeriformes	<i>Leucopsar rothschildi</i> (Bali myna)	109	81.5	106	Higher
	Psittaciformes	<i>Amazona vinacea</i> (Vinaceous amazon)	83.5	64.5	74	Higher
Reptiles	Crocodylia	<i>Gavialis gangeticus</i> (Fish-eating crocodile)	103	121	119	Higher
	Sauria	<i>Cyclura lewisi</i> (Grand cayman iguana)	83.5	64.5	74	Higher
	Testudines	<i>Caretta caretta</i> (Loggerhead)	75	91	106	Higher
		<i>Cuora bourreti</i> (Bourret's box turtle)	103	66	119	Higher
		<i>Dermochelys coriacea</i> (Leatherback)	297.5	126	159	Higher
		<i>Geochelone platynota</i> (Burmese starred tortoise)	134	55	69	Higher
		<i>Geoclemys hamiltonii</i> (Black pond turtle)	287	155.5	184.5	Higher
		<i>Glyptemys muhlenbergii</i> (Bog turtle)	587.5	228.5	319.5	Higher
		<i>Lepidochelys olivacea</i> (Olive ridley)	307.5	118.5	141	Higher
		<i>Platysternon megacephalum</i> (Big-headed turtle)	335	124.5	125.5	Higher
		<i>Pyxis arachnoides</i> (Spider tortoise)	161.5	104	128	Higher

Group	Order	Taxon	Rank			Risk matrix
			Option 1	Option 2	Option 3	
		<i>Testudo kleinmanni</i> (Egyptian tortoise)	153.5	92	112.5	Higher
Fish	Perciformes	<i>Totoaba macdonaldi</i> (Macdonald's weakfish)	80.5	60	112.5	Higher
	Pristiformes	<i>Pristis pectinata</i> (Comb shark)	95	113.5	133.5	Higher
Plants	Orchidales	<i>Paphiopedilum armeniacum</i> (Apricot orange paphiopedilum)	67	74	84	Higher

Further considerations

This method provides the structure to further develop **additional life history trait** metrics within biological vulnerability, for example body size for animals or metrics of life span or reproductive output. Such metrics could further indicate the resilience or vulnerability of a species to harvest.

Considerations around trade and/or threat from trade could also incorporate the **likelihood of international trade being a threat** according to information in a species' Red List assessment and following the methodology developed by Challender *et al.* (*in review* - see **CoP19 Inf. XX**). This information was provided as metadata for the 'higher risk' taxa in Tables 4 and 5. As with other metrics using data from IUCN Red List assessments, this would also be influenced by the age of the assessment, with older assessments potentially less representative of the present state of the species.

Additional alternative approaches to grouping taxa based on their existing criteria would also merit further exploration, for example through the use of a decision tree framework, which would remove the need to calculate aggregate 'scores' for each taxon and may allow more nuanced weighting or prioritisation of certain criteria.

Annexes

Table A1. Overview of Appendix I rapid assessment scoring criteria to address stage a) i) of Decision 18.28. Where data were available, all criteria were scored between 1 (high) and -1 (low). Each taxon was assigned a final score based on the mean score across all criteria that could be assessed; criteria with missing or incomplete data were not scored to avoid distorting the final outcome.

Criteria	Data source	Methods	Scoring criteria	Not scored ⁴
Extinction risk				
1.1 Red List status category	IUCN Red List ⁵	<i>Taxa considered globally threatened are prioritised.</i> Red List status according to IUCN Red List assessment.	1: CR & EW ⁶ 0.8: EN 0.6: VU 0.4: NT 0: EX -1: LC	Red List status: DD (Data Deficient). Taxon not yet assessed by IUCN.
1.2 Population trend	IUCN Red List ⁵	<i>Taxa with declining population trends are prioritised.</i> Population trend according to IUCN Red List assessment. <i>This aligns with biological criterion in Annex 1 C (i-ii) of Res. Conf. 9.24 (Rev. CoP17) on “marked decline”.</i>	1: Decreasing 0.5: Stable 0: Increasing	Population trend: unknown. Taxon not yet assessed by IUCN.
Threat from trade				
2.1 Threat from use	IUCN Red List ⁵	<i>Those taxa where “trade/use” is a documented threat are prioritised.</i> Whether the IUCN Red List assessments considered intentional biological resource use to be a threat (threat classifications: 5.1.1, 5.2.1, 5.3.2, 5.4.2) ⁷ , and if so, how severe those threats were considered to be. Where there were multiple threats and severity, the highest score was taken. Threats considered “Past, Unlikely to Return” were excluded.	1: Considered a threat (severity: very rapid decline or rapid decline) 0.66: Considered a threat (severity: unknown or fluctuating) 0.33: Considered a threat (severity: decline negligible, slow or no decline) 0: Not considered a threat	Red list status: LC. Taxon not assigned a threat classification. Taxon not yet assessed by IUCN.
2.2 In legal trade	CITES Trade Database ⁸	<i>Taxa documented to be in international trade (as reported by CITES Parties) are prioritised.</i>	1: > upper threshold 0.66: Between upper and lower threshold 0.33: < lower threshold	Trade data not yet available (i.e. taxa first listed at CoP18)

⁴ When a criterion could not be scored for a given taxon, it was excluded to avoid skewing the taxon's final score.

⁵ Available at www.iucnredlist.org.

⁶ Extinct in the Wild (EW) was given an equal score to CR on the assumption that re-introductions of taxa that are extinct in the wild would have small population sizes, and these taxa may still be vulnerable to trade threats (e.g. *Cyanopsitta spixii*).

⁷ Available at <https://www.iucnredlist.org/resources/threat-classification-scheme>.

⁸ Available at <https://trade.cites.org/>.

Criteria	Data source	Methods	Scoring criteria	Not scored ⁴
		<p>Upper (top 33%) and lower (bottom 33%) thresholds were calculated for each order based on the annual mean level of trade for each taxon (across all Appendices) using the data parameters below.</p> <p>The total level of trade for each Appendix I taxon⁹ was scored against these thresholds.</p> <p>Data parameters: Direct trade only Report type: Gross exports¹⁰ Year range: 2014-2018 Trade terms¹¹: baleen, bark, bodies, bones, bone carvings, bone pieces, carapaces, carvings, caviar, chips, cloth, cultures, derivatives (<i>Moschus</i> and plants only), dried plants, eggs, eggs (live), extract, fins, flowers, flower pots, fruit, furniture, gall, gall bladders, horn carvings, horn pieces, horns, ivory pieces, ivory carvings, leaves, live, logs, meat, musk, plates, plywood, powder, raw corals, roots, sawn wood, scales, seeds, shells, skin pieces, skins, skeletons, skulls, stems, teeth, timber, timber carvings, timber pieces, trophies, tusks, veneer, wax, wood product Units of measure: number (unit = blank) and weight (kg); additionally, for plants: length (m), area (m²) and volume (m³ and l) Source codes¹²: ranches (R), unknown (U), wild (W) and no source reported Purpose codes¹²: all except scientific (S) Taxa with no reported trade from wild sources (sources 'R', 'U', 'W' and unreported) in any term or unit, and which were not reported in seizures under criterion 2.3, were deprioritised (see "scoring criteria").</p> <p><i>The trade terms, units of measure, source codes and report type used align with methods used for selection of taxa in Stage 1 of Res. Conf. 12.8 (Rev. CoP18) on Review of Significant Trade.</i></p>	<p>0: no trade in data parameters -1: no evidence of wild-sourced legal (criterion 2.2) or illegal (criterion 2.3) trade in any term or unit</p>	
2.3 In illegal trade	CITES illegal trade reports ¹³	<i>Taxa documented to be in international trade (as reported by CITES Parties or in the TRAFFIC wildlife trade portal) are prioritised.</i>	1: Taxon seizure reported	No seizure reported for the taxon

⁹ Where populations were split listed, only trade exported from the populations listed in Appendix I were included. For taxa transferred from Appendix II to Appendix I during the time period, only trade in or after the year of Appendix I listing was included.

¹⁰ Gross exports: the quantities reported by the exporter and importer were compared and the larger quantity was used.

¹¹ A full list and description of "trade terms" (i.e. descriptions of specimens in trade) is available in the Annex to Notif. 2017/006.

¹² A full list and description of source and purpose codes is specified in Res. Conf. 12.3 (Rev. CoP18).

¹³ Data received from UNODC January 2020.

Criteria	Data source	Methods	Scoring criteria	Not scored ⁴
	TRAFFIC wildlife trade portal ¹⁴	One or more seizure(s) reported at species or subspecies level only ¹⁵ in the most recent five years of CITES data (2014-2018) and most recent seven years of TRAFFIC data (2014-2020) ¹⁶ . Only data reported as “seizure” or “smuggling/illegal trade” were included from the TRAFFIC wildlife trade portal.		
Biological vulnerability				
3.1 Range size	IUCN Red List ⁵	<p><i>Taxa with comparatively small range sizes prioritised.</i></p> <p>Upper (top 33%) and lower (bottom 33%) thresholds were calculated for each order based on the Extent of Occurrence (EOO) for each taxon assessed by IUCN. Where EOO was provided as a range, the mean value was used.</p> <p>The mean EOO for each Appendix I taxon was scored against these thresholds.</p> <p><i>This aligns with biological criterion in Annex 1 B (i-iv) of Res. Conf. 9.24 (Rev. CoP17) on “restricted area of distribution”</i></p>	<p>1: < lower threshold</p> <p>0.5: Between upper and lower threshold</p> <p>0: > upper threshold</p>	<p>EOO data not available from IUCN.</p> <p>Taxon not yet assessed by IUCN.</p>
3.2 Generation length	IUCN Red List ⁵	<p><i>Taxa with longer generation lengths (e.g. those that are slow-growing and slow to mature) are prioritised as likely to be more vulnerable.</i></p> <p>Upper (top 33%) and lower (bottom 33%) thresholds were calculated for each order based on the generation length for each taxon assessed by IUCN. Where generation length was provided as a range, the mean value was used.</p> <p>The mean generation length for each Appendix I taxon was scored against these thresholds.</p>	<p>1: > upper threshold</p> <p>0.5: Between upper and lower threshold</p> <p>0: < lower threshold</p>	<p>Generation length not available.</p> <p>Taxon not yet assessed by IUCN.</p>
Management effort				
4.1 Compliance with CITES	CITES Trade Database ¹⁷	<p><i>Taxa with trade linked with potential compliance issues are prioritised.</i></p> <p>Whether there was evidence of at least one of the following during the most recent five years of trade data as reported by either importers or exporters (2014-2018):</p> <p>(a) direct and/or indirect commercial trade (purpose ‘T’) in wild-sourced (source ‘W’) specimens¹⁸; and/or</p> <p>(b) direct trade exceeding CoP-approved quotas (defined as quotas in Resolutions or listing annotations)</p>	<p>1: potential compliance issue(s)</p> <p>0: no potential compliance issue(s)</p>	<p>Trade data not yet available (listed at CoP18).</p>

¹⁴ TRAFFIC International (2020). Wildlife Trade Portal. Available at www.wildlifetradeportal.org. Only direct taxonomic mapping between accepted names was included.

¹⁵ Seizures reported at higher taxonomic level were excluded.

¹⁶ Due to the CITES reporting cycle, data from the CITES illegal trade reports are only available for the years 2014-2018.

¹⁷ Available at <https://trade.cites.org/>.

¹⁸ For split listed and recently uplisted taxa, this only applies to populations and years when listed in Appendix I.

Criteria	Data source	Methods	Scoring criteria	Not scored ⁴
4.2 Existing measures under CITES	CITES ¹⁹	<p><i>Taxa without CITES measures are prioritised.</i></p> <p>Whether Appendix I taxa were currently covered by at least one of the following CITES measures: CITES Resolution(s); CITES Decision(s); CITES Task Force; and/or had CoP-approved quotas in place (quotas defined in Resolutions or listing annotations).</p>	<p>1: No existing measures 0.5: Measures exist at higher taxonomic level 0: Dedicated measures exist for the taxon</p>	
4.3 Conservation actions in place	IUCN Red List ³	<p><i>Taxa where no or little conservation action is taking place are prioritised.</i></p> <p>Whether IUCN Red List assessments considered conservation actions to be in place for the following IUCN conservation action classifications: Action Recovery Plan; systematic monitoring scheme; harvest management plan; ex-situ conservation; and/or recent education or awareness programmes.</p>	<p>1: Where classified, all are No 0.5: Where classified, more No than Yes 0: Where classified, all or most are Yes</p>	<p>All Conservation Actions “unknown”.</p> <p>Taxon not yet assessed by IUCN.</p>

¹⁹ Available at www.cites.org.

Outcomes of the Appendix I Rapid Assessment - applying 3 different weighting approaches and a risk matrix

Taxonomic Details		Prevalent risk from international trade based on risk matrix			Criterion 1.1 Red list status			Criterion 1.2 Population trend			Criterion 2.1 Threat from use			Criterion 2.2 In legal trade			Criterion 2.3 Ex situ			Criterion 3.1 Range size			Criterion 3.2 generation length			Criterion 3.3 Ex situ compliance			Criterion 4.2 OTES measures			Criterion 4.3 Conservation actions			Option 1: Unweighted multiplier (not applied to criteria 2.1-2.3)			Option 2: Two times multiplier (not applied to criteria 2.1-2.3)			Option 3: Two times multiplier (not applied to criteria 2.1-2.3)			Metadata		
Group	Class	Order	Family	Scientific name	Common name	Risk level	IUCN Red List status	Score	Population trend	Score	Threat classification	Score	Total quantity	Highest term	% by source	% by purpose	Score	Score	EDD	Score	Gen length	Score	Score	OTES measures	Score	Actions	Score	Final score	Rank	Weighted final score	Weighted rank	Number of listed entities	Number of range States	Range States (ISO-2 codes)	OTES Reservations	Year listed in Appendix I	Year assessed for most recent Red List assessment	Mean number of mature individuals (IUCN Red List)								
Birds	Ames	Galliformes	Phasianidae	<i>Symyxia haemata</i>	Horn's bar-tailed pheasant	F	Near Threatened	0.4	Decreasing	1	5.1 (severely/very significant decline; ongoing)	0.66	-	-	-	-	-	854000	0.5	5	0.5	0	1	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0.5	0.40	491.5	0.36	466	0.47	502.5	9	4	DN,NL,MM,TH		1975	2016	10500								
Birds	Ames	Galliformes	Phasianidae	<i>Symyxia rubra</i>	Mikato pheasant	C	Near Threatened	0.4	Decreasing	1	5.1 (severely/very significant decline; ongoing)	0.66	-	-	-	-	-	16000	1	5	0.5	0	1	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	1	0.51	176	0.47	293.5	0.58	304	9	1	TH		1975	2016	10500								
Birds	Ames	Galliformes	Phasianidae	<i>Tetraophasis capax</i>	Caspian snowcock	F	Least Concern	-1	Decreasing	1	-	-	-	-	-	-	-	1830000	0	5	0.5	1	1	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	1	0.31	695	0.19	736	0.31	741	8	7	AR,AZ,GE,IL,IR,TR		1975	2016	27969.5								
Birds	Ames	Galliformes	Phasianidae	<i>Tetraophasis tibetanus</i>	Tibetan snowcock	F	Least Concern	-1	Stable	0.5	-	-	-	-	-	-	-	2440000	0	5	0.5	0	1	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	1	0.13	802	0.00	881.5	0.13	920	8	7	AJ,AT,CH,NL,MM,MP,TH		1975	2016									
Birds	Ames	Galliformes	Phasianidae	<i>Trogonops blythi</i>	Blyth's tragopan	F	Vulnerable	0.6	Decreasing	1	5.1 (severely/very significant decline; ongoing)	0.66	-	-	-	-	-	35000	0.5	5.2	0.5	0	1	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.36	575.5	0.32	544	0.44	575	9	4	BT,CH,NL,MM		1975	2016	6249.5								
Birds	Ames	Galliformes	Phasianidae	<i>Trogonops cabotii</i>	Cabot's tragopan	F	Vulnerable	0.6	Decreasing	1	5.1 (severely/very significant decline; ongoing)	0.66	-	-	-	-	-	118000	0.5	5.2	0.5	0	1	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.36	575.5	0.32	544	0.44	575	9	1	CH		1975	2016	6249.5								
Birds	Ames	Galliformes	Phasianidae	<i>Trogonops melanocephalus</i>	Black-headed tragopan	C	Vulnerable	0.6	Decreasing	1	5.1 (severely/very significant decline; ongoing)	0.66	-	-	-	-	-	100000	1	5.2	0.5	1	1	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.51	130	0.49	256	0.60	205.5	9	4	CH,NL,MP,TH		1975	2016	3300								
Birds	Ames	Gruiformes	Gruidae	<i>Ardeotis persicus</i>	West African crowned crane	C	Vulnerable	0.6	Decreasing	1	5.1 (severely/very significant decline; ongoing)	0.66	0	-	-	-	-	910000	0.5	15.1	1	0	1	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.51	130	0.60	153	0.71	159	9	25	BF,BD,CF,CI,CM,ER,ET,GA,GM,GN,GW,KE,LR,ML,NE,NG,NI,SN,TD,UG,ZM,ZW	2019	2016	37500									
Birds	Ames	Gruiformes	Gruidae	<i>Grua americana</i>	Whooping crane	C	Endangered	0.8	Increasing	0	5.1 (severely/very significant decline; ongoing)	0.66	-	-	-	-	-	199000	1	13.1	1	0	1	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.38	521	0.35	495	0.46	533.5	9	3	CA,US		1975	2016	148.5								
Birds	Ames	Gruiformes	Gruidae	<i>Grua canadensis mexicana</i>	Colibri sandhill crane	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Birds	Ames	Gruiformes	Gruidae	<i>Grua canadensis pallasi</i>	Mitlenko sandhill crane	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
Birds	Ames	Gruiformes	Gruidae	<i>Grua japonensis</i>	Japanese crane	C	Endangered	0.8	Decreasing	1	5.1 (severely/very significant decline; ongoing)	0.66	2	Indes: 1	U: 100%	E: 100%	0	-	176000	0.5	12.3	1	0	1	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.35	106.5	0.32	141	0.74	148	9	7	CH,JP,KR,NL,TH		1975	2016	1830							
Birds	Ames	Gruiformes	Gruidae	<i>Grua leucogeranus</i>	Siberian crane	C	Critically Endangered	1	Decreasing	1	5.1 (severely/very significant decline; ongoing)	0.66	4	Indes: 1	U: 100%	E: 100%	0	1	244000	0.5	13	1	0	1	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.42	105	0.78	62.5	0.88	71	10	13	AF,AZ,CH,IL,IR,JP,KR,KZ,MM,NL,PK,TH,TM,UZ		1975	2018								
Birds	Ames	Gruiformes	Gruidae	<i>Grua macrotis</i>	Hooded crane	F	Vulnerable	0.6	Increasing	0	5.1 (severely/very significant decline; ongoing)	0.33	-	-	-	-	-	474000	1	12	0.5	0	1	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.27	759.5	0.30	730	0.31	744.5	8	9	CH,NL,JP,KR,KZ,MM,NL,TH		1975	2016	10500								
Birds	Ames	Gruiformes	Gruidae	<i>Grua nigricollis</i>	Black-necked crane	C	Vulnerable	0.6	Decreasing	1	5.1 (severely/very significant decline; ongoing)	0.66	-	-	-	-	-	83000	1	13	1	0	1	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.47	391.5	0.44	336.5	0.55	337.5	9	6	BT,CH,NL,MM,MP,TH		1975	2016	6700								
Birds	Ames	Gruiformes	Gruidae	<i>Grua vicia</i>	White-necked crane	C	Vulnerable	0.6	Decreasing	1	5.1 (severely/very significant decline; ongoing)	0.33	3	Indes: 2	U: 100%	E: 100%	0	-	94100	0.5	13	1	0	1	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.49	275	0.53	190	0.64	197	9	6	CH,JP,KR,KZ,MM,TH		1975	2018	4100							
Birds	Ames	Gruiformes	Otididae	<i>Ardeotis nigriceps</i>	Great Indian bustard	C	Critically Endangered	1	Decreasing	1	5.1 (severely/very significant decline; ongoing)	0.66	-	-	-	-	-	1,36407	0	15.6	1	0	1	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.41	471.5	0.37	465.5	0.48	485.5	9	3	IN,MP,TH		1979	2018	148.5								
Birds	Ames	Gruiformes	Otididae	<i>Chlorotopus macrurus</i>	Macquer's bustard	D	Vulnerable	0.6	Decreasing	1	5.1 (severely/very rapid decline; ongoing)	1	10272	Ind: 10265	R: 85.3%, unreported	N: 8.6%, unreported	E: 4.7%, unreported	0	-	1,36407	0	6.6	0	0	1	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.51	169.5	0.73	89	0.84	88.5	9	44	AF,AZ,BD,CH,CI,CM,EG,ET,GE,IL,IR,JP,KR,KZ,MM,NL,PK,TH,TM,UZ	2019	2016	50000							
Birds	Ames	Gruiformes	Otididae	<i>Chlorotopus undulatus</i>	Houbara	D	Vulnerable	0.6	Decreasing	1	5.1 (severely/very rapid decline; ongoing)	1	3	Ind: 3	U: 100%	E: 100%	0	1	100000	0.5	6.6	0	0	1	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.51	172.5	0.71	102	0.81	101	10	14	AF,AZ,AR,BD,CH,CI,CM,EG,ET,GE,IL,IR,JP,KR,KZ,MM,NL,PK,TH,TM,UZ	2019	2016	23000								
Birds	Ames	Gruiformes	Otididae	<i>Hoplostopus bengalensis</i>	Bengal bustard	C	Critically Endangered	1	Decreasing	1	5.1 (severely/very rapid decline; ongoing)	1	-	-	-	-	-	155000	1	10.3	0.5	0	1	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.50	211	0.50	228.5	0.61	254.5	9	4	IN,NL,MP,TH		1975	2018	624.5								
Birds	Ames	Gruiformes	Rallidae	<i>Gallinago solitaria</i>	Lord Howe island rail	F	Endangered	0.8	Stable	0.5	5.1 (severely/very significant decline; past, unlikely to return)	0	-	-	-	-	-	6	1	3.4	0	0	1	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.26	783	0.14	769	0.26	795	9	1	AU		1975	2016	232								
Birds	Ames	Gruiformes	Rhinocerotidae	<i>Rhinoceros jubatus</i>	Kagu	C	Endangered	0.8	Decreasing	1	5.1 (severely/very significant decline; ongoing)	0	-	-	-	-	-	7400	0	15	1	0	1	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.35	820.5	0.23	697.5	0.35	707.5	8	1	NC		1975	2019	624.5								
Birds	Ames	Falconiformes	Alcedinidae	<i>Alcedo coromanda</i>	Noddy scrub-bird	C	Endangered	0.8	Decreasing	1	5.1 (severely/very significant decline; ongoing)	0	-	-	-	-	-	8800	1	5	0.5	0	0	Decisions: 18.256-18.259	0.5	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.35	820.5	0.23	697.5	0.29	764.5	8	1	AU		1975	2016	1200						
Birds	Ames	Falconiformes	Cathartidae	<i>Cathartes melanocephala</i>	Band-tailed eagle	C	Critically Endangered	1	Decreasing	1	5.1 (severely/very significant decline; ongoing)	0.33	-	-	-	-	-	11800	1	4.6	0	0	0	Decisions: 18.256-18.259	0.5	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	1	0.43	405	0.35	481	0.41	619	9	1	BR		1975	2019	148.5						
Birds	Ames	Falconiformes	Cathartidae	<i>Alpharhastor atricapillus</i>	White-winged catbird	F	Vulnerable	0.6	Decreasing	1	5.1 (severely/very significant decline; ongoing)	0.33	-	-	-	-	-	20000	0.5	4.6	0	0	0	Decisions: 18.256-18.259	0.5	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	1	0.33	668.5	0.25	660.5	0.31	744.5	9	1	BR		1975	2017	6249.5						
Birds	Ames	Falconiformes	Fringillidae	<i>Carpodacus cucullatus</i>	Red-billed leucostictus	F	Endangered	0.8	Decreasing	1	5.1 (severely/very rapid decline; ongoing)	1	-	-	-	-	-	61800	0.5	4.2	0	0	0	Decisions: 18.256-18.259	0.5	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.31	698.5	0.31	565.5	0.37	684	9	3	CO,GE,VE		1975	2018	4250						
Birds	Ames	Falconiformes	Falconidae	<i>Falco tinnunculus</i>	White-eyed merlin	C	Critically Endangered	1	Decreasing	1	5.1 (severely/very significant decline; ongoing)	0.66	-	-	-	-	-	1	1	4.1	0	0	0	Decisions: 18.256-18.259	0.5	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	1	0.46	324	0.42	350	0.48	480.5	9	1	TH		1980	2016	25						
Birds	Ames	Falconiformes	Falconidae	<i>Falco sparverius</i>	Sparrowhawk	F	Endangered	0.8	Decreasing	1	5.1 (severely/very significant decline; ongoing)	0.66	-	-	-	-	-	82800	0.5	4.6	0	0	0	Decisions: 18.256-18.259	0.5	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	1	0.38	521	0.35	495	0.40	629	9	4	AR,BR,JP,TH		1995	2019	4250						
Birds	Ames	Falconiformes	Falconidae	<i>Falco sparverius</i>	Sparrowhawk	F	Vulnerable	0.6	Decreasing	1	5.1 (severely/very significant decline; ongoing)	0.33	-	-	-	-	-	32000	0.5	7.3	0.5	0	0	Decisions: 18.256-18.259	0.5	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.27	759.5	0.30	730	0.35	796.5	9	5	CI,GM,SA,UG,NG		1975	2018	6249.5						
Birds	Ames	Falconiformes	Falconidae	<i>Falco sparverius</i>	Sparrowhawk	F	Vulnerable	0.6	Decreasing	1	5.1 (severely/very significant decline; ongoing)	0.33	-	-	-	-	-	32000	0.5	7.3	0.5	0	0	Decisions: 18.256-18.259	0.5	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.27	759.5	0.30	730	0.35	796.5	9	5	CI,GM,SA,UG,NG		1975	2016	6249.5						
Birds	Ames	Falconiformes	Falconidae	<i>Falco sparverius</i>	Sparrowhawk	F	Critically Endangered	1	Decreasing	1	5.1 (severely/very rapid decline; ongoing)	1	-	-	-	-	-	1700	1	4.2	0	0	0	Decisions: 18.256-18.259	0.5	Recovery plan: Yes; Monitoring scheme: No; Ex situ management: Yes; Education programme: No	0	0.39	513.5	0.39	412	0.44	565.5	8	2	MM,TH		1980								

Outcomes of the Appendix I Rapid Assessment - applying 3 different weighting approaches and a risk matrix

Taxonomic Details						Prevalent risk from international trade based on risk matrix		Criterion 1.1 Red List status		Criterion 1.2 Population trend		Criterion 2.1 Threat from use		Criterion 2.2 In legal trade				Criterion 2.3 Ex situ		Criterion 3.1 Range size		Criterion 3.2 Generation length		Criterion 3.3 Time compliance		Criterion 3.4 OTES measures		Criterion 4.3 OCN Conservation actions		Option 1: Unweighted or multiplied factor applied to criteria 2.1-2.3		Option 2: Two times multiplication factor applied to criteria 2.1-2.3		Option 3: Two times multiplication factor applied to criteria 2.1-2.3		Metadata								
Group	Class	Order	Family	Scientific name	Common name	Risk level	Red List status	Score	Population trend	Score	Threat classification	Score	Total quantity	Highest term	% by source	% by purpose	Score	Score	EDD	Score	Gen length	Score	Score	Score	OTES measures	Score	Actions	Score	Final score	Rank	Weighted final score	Weighted rank	Number of listed entities	Number of range States	Range States (ISO-2 codes)	OTES Reservations	Year listed in Appendix I	Year assessed for most recent Red List assessment	Mean number of mature individuals (SDCN Red List)					
Birds	Aves	Falconiformes	Diornithidae	<i>Falconureo albitarsis</i>	Black-fronted albatross	V	Vulnerable	0.6	Increasing	0	1.1.1 (severely) rapid decline; 0 (past, unlikely to return)	0	1	14,407	0.5	24.1	1	0	1	3,450	0.5	24.1	1	0	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0.5	0.46	335	0.56	171	0.66	187.5	10	11	CA, CU, FM, JP, JP, MA, MA, NI, NI, US, US		1975	2018	1734				
Birds	Aves	Falconiformes	Cathartidae	<i>Cathartes gairdneri</i>	Gairdner's caracara	C	Near Threatened	0.4	Decreasing	1	1.1.1 (severely) slow, significant decline; 0.66 (ongoing)	2	Inv 2	unreported	1	100%	0	-	3200	1	13	1	1	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	1	0.78	8	0.86	13	0.97	42	9	2	US, US		1992	2018					
Birds	Aves	Falconiformes	Cathartidae	<i>Cathartes hemelroyi</i>	Philippine caracara	C	Critically Endangered	1	Decreasing	1	1.1.1 (severely) slow, significant decline; 0.66 (ongoing)	-	-	734000	0.5	13	1	0	1	1	13	1	0	0	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.46	324	0.42	350	0.54	373.5	9	1	PH, PH		1992	2017	590				
Birds	Aves	Falconiformes	Cathartidae	<i>Cathartes melanerpes</i>	Melanian caracara	A	Vulnerable	0.6	Decreasing	1	1.1.1 (severely) rapid decline; 0.66 (ongoing)	1	12	Inv 12	unreported	6	55.7%; US 23.3%	0.33	-	33800	1	13	1	0	0	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.66	13	0.81	54	0.92	61	9	1	ID, ID		1990	2018	36800			
Birds	Aves	Falconiformes	Cathartidae	<i>Cathartes vulpurus</i>	Lesser scissor-tailed caracara	A	Critically Endangered	1	Decreasing	1	1.1.1 (severely) very rapid decline; 1 (ongoing)	1	11	Inv 11	US 54.5%; unreported 4.5%	781.8%; 218.2%	0.33	-	1360000	0	13	1	1	1	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.70	16	0.85	36	0.96	48	9	2	US, US		2005	2018	1749.5			
Birds	Aves	Falconiformes	Cathartidae	<i>Falco sparverius</i>	Palm cockatiel	N	Least Concern	-1	Decreasing	1	-	-	4	Inv 4	US 100%	7.75%; 2.25%	0	1	8600000	0	17.7	1	0	0	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0.5	0.39	511.5	0.50	228.5	0.61	254.5	9	3	AU, US, PG, PG		1987	2016				
Birds	Aves	Falconiformes	Loridae	<i>Falco sparverius</i>	Red-and-blue tery	A	Endangered	0.8	Decreasing	1	1.1.1 (severely) rapid decline; 0.66 (ongoing)	1	0	1	2100	1	7	0.5	0	1	2100	1	7	0.5	0	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.61	183	0.83	61.5	0.93	55.5	10	1	ID, ID		1995	2016	9750		
Birds	Aves	Falconiformes	Loridae	<i>Vireo olivaceus</i>	Ultramarine hawk	F	Critically Endangered	1	Stable	0.5	-	-	-	99	1	5	0	0	0	99	1	5	0	0	0	1	1	Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0.5	0.38	577.5	0.25	669	0.38	676	8	1	FR, FR		1997	2018	1748.5		
Birds	Aves	Falconiformes	Falconidae	<i>Falco sparverius</i>	Amazona amazilia	Jacquet	F	Vulnerable	0.6	Increasing	0	1.1.1 (severely) rapid decline; 0.66 (ongoing)	0.33	10	Inv 10	W 100%	8 100%	0.33	-	190	1	12.3	1	0	0	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.47	297.5	0.55	179	0.66	185.5	9	1	DM, DM		1981	2016	925		
Birds	Aves	Falconiformes	Falconidae	<i>Falco sparverius</i>	Yellow-rumped amazon	A	Endangered	0.8	Decreasing	1	1.1.1 (severely) rapid decline; 0.66 (ongoing)	1	14	Inv 14	unreported 5.7%; US 7.3%; W 33.3%	unreported 85.7%; 614.3%	0.33	-	86000	0.5	12.3	1	1	1	1	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.74	11.5	0.88	22	1.00	32	9	7	BR, BR, CU, CU, FM, FM, JP, JP, MA, MA, NI, NI, US, US	CU, CU; 11/02/2003-12/06/2014; PH, PH; 11/02/2003-present	2003	2017			
Birds	Aves	Falconiformes	Falconidae	<i>Falco sparverius</i>	Yellow-throated amazon	C	Vulnerable	0.6	Unknown	-	1.1.1 (severely) slow, significant decline; 0.66 (ongoing)	0.66	1	Inv 1	US 100%	1	100%	0	-	11000	1	12.3	1	0	0	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.51	125	0.62	149	0.74	141	8	3	AN, AN, VE, VE		1981	2016	3650		
Birds	Aves	Falconiformes	Falconidae	<i>Falco sparverius</i>	Red-tailed amazon	F	Near Threatened	0.4	Increasing	0	1.1.1 (severely) slow, significant decline; 0.66 (ongoing)	0.66	-	-	10100	1	12.3	1	0	0	10100	1	12.3	1	0	0	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.34	646	0.30	584	0.41	614.5	9	2	BR, BR		1981	2017	6350	
Birds	Aves	Falconiformes	Falconidae	<i>Falco sparverius</i>	Lilac-crowned amazon	A	Endangered	0.8	Decreasing	1	1.1.1 (severely) rapid decline; 0.66 (ongoing)	1	0	1	394000	0.5	12.3	1	1	1	394000	0.5	12.3	1	1	1	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	1	0.83	3	1.03	9.5	1.13	4	10	1	MX, MX		2005	2018	5700	
Birds	Aves	Falconiformes	Falconidae	<i>Falco sparverius</i>	Saint Vincent amazon	F	Vulnerable	0.6	Increasing	0	1.1.1 (severely) slow, significant decline; 0.66 (ongoing)	0	-	-	100	1	12.3	1	0	0	100	1	12.3	1	0	0	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.29	732	0.18	751	0.29	763	9	1	VC, VC		1975	2016	624.5	
Birds	Aves	Falconiformes	Falconidae	<i>Falco sparverius</i>	Imperial amazon	C	Critically Endangered	1	Decreasing	1	1.1.1 (severely) rapid decline; 0.66 (ongoing)	0.33	2	Inv 2	W 100%	8 100%	0	-	240	1	12.3	1	0	0	0	1	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.59	71	0.63	137	0.74	141	9	1	DM, DM		1975	2019	25	
Birds	Aves	Falconiformes	Falconidae	<i>Falco sparverius</i>	Amazona maculosa	Bahama parrot	C	Near Threatened	0.4	Decreasing	1	1.1.1 (severely) slow, significant decline; 0.66 (ongoing)	0.66	-	-	99000	0.5	12.3	1	0	0	99000	0.5	12.3	1	0	0	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.40	491.5	0.36	456	0.47	505.5	9	3	BS, BS, KY, KY		1975	2016	18300
Birds	Aves	Falconiformes	Falconidae	<i>Falco sparverius</i>	Yellow-headed amazon	A	Endangered	0.8	Decreasing	1	1.1.1 (severely) slow, significant decline; 0.66 (ongoing)	0.66	25	Inv 25	unreported 7.2%; US 23.8%; W 33.3%	unreported 7%; 1.0%; P 8%; 8.4%	0.33	1	1	303000	0	12.3	1	1	1	1	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.68	21	0.88	24	0.98	39	10	4	BR, BR, CU, CU, FM, FM, MA, MA, NI, NI, US, US	CU, CU; 11/02/2003-12/06/2014; PH, PH; 11/02/2003-present	2003	2018	4700	
Birds	Aves	Falconiformes	Falconidae	<i>Falco sparverius</i>	Red-speckled amazon	C	Vulnerable	0.6	Decreasing	1	1.1.1 (severely) slow, significant decline; 0.66 (ongoing)	0.66	-	-	95400	1	12.3	1	0	0	95400	1	12.3	1	0	0	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.47	297.5	0.44	336.5	0.55	337.5	9	4	AR, BR, PL, PL		1975	2016		
Birds	Aves	Falconiformes	Falconidae	<i>Falco sparverius</i>	Red-browed amazon	C	Vulnerable	0.6	Decreasing	1	1.1.1 (severely) rapid decline; 0.66 (ongoing)	1	-	-	89000	0.5	12.3	1	0	0	89000	0.5	12.3	1	0	0	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.46	346	0.46	300	0.57	323	9	1	BR, BR		1975	2017	6249.5	
Birds	Aves	Falconiformes	Falconidae	<i>Falco sparverius</i>	Alder parrot	C	Vulnerable	0.6	Decreasing	1	1.1.1 (severely) unknown; 0.66 (ongoing)	0.66	-	-	82300	1	12.3	1	0	0	82300	1	12.3	1	0	0	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0.5	0.53	120	0.49	256	0.60	265.5	9	2	AR, BR, BR		1990	2016	10500	
Birds	Aves	Falconiformes	Falconidae	<i>Falco sparverius</i>	Saint Lucia amazon	F	Vulnerable	0.6	Increasing	0	1.1.1 (severely) no decline; 0.33 (ongoing)	0.33	-	-	200	1	12.3	1	0	0	200	1	12.3	1	0	0	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.33	668.5	0.25	660.5	0.36	684	8	3	LC, LC		1975	2016	280	
Birds	Aves	Falconiformes	Falconidae	<i>Falco sparverius</i>	Venezuela amazon	A	Endangered	0.8	Decreasing	1	1.1.1 (severely) rapid decline; 0.66 (ongoing)	1	0	1	1330000	0	12.3	1	0	0	1330000	0	12.3	1	0	0	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.58	83.5	0.78	64.5	0.88	74	10	3	AR, BR, PL, PL		1975	2017	1748.5	
Birds	Aves	Falconiformes	Falconidae	<i>Falco sparverius</i>	Green-chested amazon	C	Endangered	0.8	Decreasing	1	1.1.1 (severely) very rapid decline; 1 (ongoing)	1	-	-	65000	1	12.3	1	0	0	65000	1	12.3	1	0	0	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.31	121	0.53	193	0.64	193	9	1	MX, MX		1997	2018	3100	
Birds	Aves	Falconiformes	Falconidae	<i>Falco sparverius</i>	Puerto Rican amazon	C	Critically Endangered	1	Unknown	-	1.1.1 (severely) rapid decline; 0 (past, unlikely to return)	0	-	-	1000	1	12.3	1	0	0	1000	1	12.3	1	0	0	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.88	557.5	0.25	669	0.38	676	8	1	PR, PR		1975	2018	25	
Birds	Aves	Falconiformes	Falconidae	<i>Andorhynchus glaucus</i>	Glaucous macaw	C	Critically Endangered	1	Unknown	-	1.1.1 (severely) slow, significant decline; 0 (past, unlikely to return)	0	-	-	1	1	10.4	1	0	0	1	1	10.4	1	0	0	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	1	0.50	211	0.38	428	0.50	441	8	3	AR, BR, PL, PL		1987	2019	10	
Birds	Aves	Falconiformes	Falconidae	<i>Andorhynchus leucostriatus</i>	White-throated macaw	D	Vulnerable	0.6	Decreasing	1	1.1.1 (severely) rapid decline; 0.66 (ongoing)	1	4	Inv 4	unreported 5.750%; US 30.5%	75.50%	0	1	2850000	0	10.3	1	1	1	1	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.86	29.5	0.86	35.5	0.96	46.9	10	3	BR, BR, PL, PL		1987	2016	4300		
Birds	Aves	Falconiformes	Falconidae	<i>Andorhynchus leucostriatus</i>	Indigo macaw	C	Endangered	0.8	Increasing	0	1.1.1 (severely) negligible decline; 0.33 (ongoing)	0.33	7	Inv 7	US 57.3%; W 33.3%	885.7%; 614.3%	0.33	-	31200	1	10.4	1	0	0	0	1	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.50	245.5	0.57	167.5	0.68	176.5	9	1	BR, BR		1987	2019	624.5	
Birds	Aves	Falconiformes	Falconidae	<i>Aratinga canicularis</i>	Buffon's macaw	C	Endangered	0.8	Decreasing	1	1.1.1 (severely) rapid decline; 0.66 (ongoing)	1	-	-	1010000	0	15	1	0	0	1010000	0	15	1	0	0	1	1	Recovery plan; Yes; Monitoring scheme; No; Ex situ management; No; Education programme; Yes	0	0.42	415	0.42	361.5	0.53	384.5	9							

Outcomes of the Appendix I Rapid Assessment - applying 3 different weighting approaches and a risk matrix

Taxonomic Details		Prevalent risk from international trade based on risk matrix		Criterion 1.1 Red list status		Criterion 1.2 Population trend		Criterion 2.1 Threat from use		Criterion 2.2 In legal trade				Criterion 2.3 Ex situ		Criterion 3.1 Range size		Criterion 3.2 Generation length		Criterion 3.3 Time compliance		Criterion 4.2 OTES measures		Criterion 4.3 Conservation actions		Option 1: Unweighted multiplier (score applied)		Option 2: Two times multiplier (score applied to criteria 2.1-2.3)		Option 3: Ten times multiplier (score applied to criteria 2.1-2.3)		Option 4: Ten times multiplier (score applied to criteria 2.1-2.3)		Metadata						
Group	Class	Order	Family	Scientific name	Common name	Risk level	ICBN Red list status	Score	Population trend	Score	Threat classification	Score	Total quantity	Highest term	% by source	% by purpose	Score	Score	EOO	Score	Gen length	Score	Score	OTES measure	Score	Actions	Score	Final score	Rank	Weighted final score	Weighted rank	Number of listed entities	Number of range States	Range States (EOO - codes)	OTES Reservations	Year listed in Appendix I	Year assessed for most recent Red List assessment	Mean number of mature individuals (EOO Red List)		
Birds	Aves	Ptiliniformes	Ptilinidae	<i>Cyanospiza alpestris</i>	Common blue breasted flycatcher	Endangered	0.8	Stable	0.5	1	1.1 (severely negative decline; ongoing)	0.33	-	-	-	-	-	11000	1	4.8	0	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	0.15	630	0.27	633	0.18	663	9	1	AU		1981				
Birds	Aves	Ptiliniformes	Ptilinidae	<i>Eurypicus corvinus</i>	Horned parakeet	Vulnerable	0.6	Increasing	0	-	-	-	-	-	-	-	-	11600	1	6.6	0.5	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	0.26	705	0.14	780.5	0.26	783.5	9	1	NC		2000	2016	5650		
Birds	Aves	Ptiliniformes	Ptilinidae	<i>Gouroua guineensis</i>	Golden coucal	Vulnerable	0.6	Decreasing	1	1	1.1 (severely/very significant decline; past, unlikely to return)	0	0	1	48000	0.5	7.4	0.5	0	0	0	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	0.46	335	0.56	171	0.66	187.5	10	1	BR		1975	2018	10000		
Birds	Aves	Ptiliniformes	Ptilinidae	<i>Amphispiza bilineata</i>	Orange-bellied parakeet	Critically Endangered	1	Decreasing	1	-	-	-	-	-	-	-	-	12800	1	4.8	0	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	0.18	577.5	0.25	669	0.38	676	8	1	AU		1975	2018	22.5		
Birds	Aves	Ptiliniformes	Ptilinidae	<i>Oryzopsis montana</i>	Yellow-eared coucal	Endangered	0.8	Increasing	0	1	1.1 (severely rapid decline; past, unlikely to return)	1	-	-	-	-	-	16800	0.5	7.5	0.5	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	0.31	688.5	0.31	565.5	0.42	605	9	2	CD,EC		1981	2016	212		
Birds	Aves	Ptiliniformes	Ptilinidae	<i>Prioniturus occidentalis</i>	Night parrot	Endangered	0.8	Decreasing	1	1	1.1 (severely unknown; ongoing)	0.66	-	-	-	-	-	100000	0	9.7	1	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	0.54	368	0.40	364	0.51	428	9	1	AU		1975	2019	146.5		
Birds	Aves	Ptiliniformes	Ptilinidae	<i>Prioniturus vociferus</i>	Ground parakeet	Least Concern	-1	Decreasing	1	-	-	-	-	-	-	-	-	94000	0	9.7	1	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0.5	0.19	873.5	0.06	811	0.19	882	8	1	AU		1977	2016			
Birds	Aves	Ptiliniformes	Ptilinidae	<i>Psephenopsis pinnata</i>	Pileated parrot	Least Concern	-1	Decreasing	1	-	-	-	-	-	-	-	-	95000	0	5.8	0.5	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	1	0.19	873.5	0.06	811	0.19	882	8	1	BR,JP		1975	2018			
Birds	Aves	Ptiliniformes	Ptilinidae	<i>Prioniturus coloratus</i>	Blue-headed coucal	Vulnerable	0.6	Decreasing	1	1	1.1 (severely/very significant decline; ongoing)	0.66	-	-	-	-	-	79000	0.5	10.18	1	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	1	0.53	130	0.49	216	0.60	208.5	9	1	BD,ML,PE	PH: 13/02/2020 present	2003	2018	27800		
Birds	Aves	Ptiliniformes	Ptilinidae	<i>Prioniturus macrurus</i>	Blue-winged coucal	Near Threatened	0.4	Decreasing	1	1	1.1 (severely rapid decline; past, unlikely to return)	0	-	-	-	-	-	93000	0	10.2	1	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	0.27	763	0.16	767	0.27	776.5	9	2	BR,JP		1980	2016	4250		
Birds	Aves	Ptiliniformes	Ptilinidae	<i>Psephenopsis chloropygia</i>	Golden shouldered parrot	Endangered	0.8	Decreasing	1	-	-	-	-	-	-	-	-	2900	1	4.1	0	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	0.35	620.5	0.23	687.5	0.35	701.5	8	1	AU		1975	2016	2500		
Birds	Aves	Ptiliniformes	Ptilinidae	<i>Psephenopsis diademata</i>	Hooded parrot	Least Concern	-1	Stable	0.5	-	-	-	-	-	-	-	-	91000	0.5	4.4	0	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0.5	0.06	938	0.06	935	0.06	934	8	1	AU		1975	2016			
Birds	Aves	Ptiliniformes	Ptilinidae	<i>Psephenopsis pulcherrima</i>	Beautiful parakeet	Extinct	0	Unknown	-	1	1.1 (severely unknown; past, unlikely to return)	0	-	-	-	-	-	-	-	4.2	0	0	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0.5	0.07	926.5	0.07	926.5	0.07	926.5	7	0			1975	2016		
Birds	Aves	Ptiliniformes	Ptilinidae	<i>Ptilinopus echo</i>	Mourning parakeet	Vulnerable	0.6	Increasing	0	-	-	-	10	low 10	unreported	1.100%	0.00	0.13	-	270	1	7.5	0.5	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	0.43	395	0.47	292	0.60	293	8	1	MA		1975	2019	425
Birds	Aves	Ptiliniformes	Ptilinidae	<i>Ptilinopus ruber</i>	Grey parrot	Endangered	0.8	Decreasing	1	1	1.1 (severely rapid decline; ongoing)	1	899	low 899	W:8%, W:8%, unreported	1.884%, unreported	14.5%, 4.8%, U:1.7%, P:2.1%	0	1	446000	0	15.5	1	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	0.73	13	1.03	115	1.03	114	10	23	AD,AR,BL,CD,CF,CG,CM,GA,GN,GT,HT,KE,ML,LR,MA,MY,NL,NG,SN,TD,UG,ZA,ZM,ZW	CA: 03/01/2021 present	2017	2018		
Birds	Aves	Ptiliniformes	Ptilinidae	<i>Pyrrolopygia cinctirostris</i>	Blue-cheeked parakeet	Vulnerable	0.6	Decreasing	1	1	1.1 (severely/very significant decline; ongoing)	0.66	-	-	-	-	-	281000	0.5	6	0.5	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	0.42	423.5	0.38	423	0.49	454	9	1	BR		1975	2016	6249.5		
Birds	Aves	Ptiliniformes	Ptilinidae	<i>Rhycolaptes pacificus</i>	Thick-billed parrot	Endangered	0.8	Decreasing	1	1	1.1 (severely/very significant decline; ongoing)	0.66	-	-	-	-	-	97100	1	11.1	1	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	0.50	245.5	0.46	288.5	0.57	321.5	9	1	MX		1981	2016	2400		
Birds	Aves	Ptiliniformes	Ptilinidae	<i>Rhycolaptes terra</i>	Mexican-fronted parrot	Endangered	0.8	Decreasing	1	1	1.1 (severely/very significant decline; ongoing)	0.66	-	-	-	-	-	1000	1	11.1	1	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	0.50	245.5	0.46	288.5	0.57	321.5	9	1	MX		1981	2016	1749.5		
Birds	Aves	Ptiliniformes	Ptilinidae	<i>Sinops haughtoni</i>	Kakapa	Critically Endangered	1	Increasing	0	-	-	-	-	-	-	-	-	9100	1	27	1	0	1	Monitoring scheme; No. Ex situ management; No. Education programme	1	0.18	577.5	0.25	669	0.38	676	8	1	NZ		1975	2018	116		
Birds	Aves	Rhathormiiformes	Rhathormiidae	<i>Rhathormiopsis parvirostris</i>	Darwin's rhear	Least Concern	-1	Decreasing	1	1	1.1 (severely/very significant decline; ongoing)	0.66	-	-	-	-	-	82000	0.5	11	0.5	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	1	0.47	314	0.63	133	0.73	144	10	4	AR,BD,CL,FR		1979	2018			
Birds	Aves	Sphenociformes	Sphenocidae	<i>Sphenoceros humboldti</i>	Humboldt pangolin	Vulnerable	0.6	Decreasing	1	1	1.1 (severely/very significant decline; ongoing)	0.66	-	-	-	-	-	230000	0.5	10.6	0.5	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	0.53	136	0.69	107	0.79	105.5	10	4	CD,EC,FR		1981	2018	30000		
Birds	Aves	Strigiformes	Strigidae	<i>Strix nebulosa</i>	Forest owl	Endangered	0.8	Decreasing	1	1	1.1 (severely/very significant decline; ongoing)	0.66	-	-	-	-	-	9100	1	5.4	0	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	0.18	521	0.35	495	0.46	533.5	9	1	IN		1979	2018	624.5		
Birds	Aves	Strigiformes	Strigidae	<i>Strix nebulosa</i>	Forest owl	Vulnerable	0.6	Decreasing	1	-	-	-	-	-	-	-	-	21000	0.5	6.7	0.5	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0.5	0.19	515.5	0.26	445	0.39	459	8	1	PH		1975	2016	6249.5		
Birds	Aves	Strigiformes	Strigidae	<i>Strix nebulosa</i>	Christmas hawk-owl	Vulnerable	0.6	Stable	0.5	-	-	-	-	-	-	-	-	240	1	4.1	0	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	0.26	705	0.14	780.5	0.26	783.5	8	1	CK		1977	2016	1000		
Birds	Aves	Strigiformes	Tyrtonidae	<i>Tyrtoyx nebulosa</i>	Mediterranean grass owl	Vulnerable	0.6	Decreasing	1	-	-	-	-	-	-	-	-	148000	0.5	6.1	0.5	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	1	0.45	356	0.33	341	0.45	350	8	1	MG		1977	2016	6249.5		
Birds	Aves	Struthioniformes	Struthionidae	<i>Struthio camelus</i>	Ostrich	Least Concern	-1	Decreasing	1	-	-	-	144	egg (live) 72	W:82.6%, W:82.6%, unreported	2.333%, P:3.33%, unreported	1.174%, N:10.4%, O:4.6%, R:6.6%, U:5.6%	0	1	2,864,070	0	16.8	1	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0.5	0.56	95	0.69	113.5	0.81	99	8	26	AD,AR,BL,CD,CF,CG,CM,GA,GN,GT,HT,KE,ML,LR,MA,MY,NL,NG,SN,TD,UG,ZA,ZM,ZW		1983	2018		
Birds	Aves	Struthioniformes	Struthionidae	<i>Struthio camelus</i>	Ostrich	Near Threatened	0.4	Decreasing	1	1	1.1 (severely/very significant decline; ongoing)	0.66	-	-	-	-	-	93000	0.5	6.8	0	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	0.40	493.5	0.36	456	0.47	505.5	9	1	BR,JP		1975	2018	120000		
Birds	Aves	Trogoniformes	Trogonidae	<i>Phaenostictus mitchelli</i>	Magnificent quail	Near Threatened	0.4	Decreasing	1	-	-	-	-	-	-	-	-	49000	1	7.3	1	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	1	0.55	109	0.43	340	0.55	334	8	7	CD,FR,MA,JP,SY		1975	2016			
Reptiles	Reptilia	Crocodylia	Alligatoridae	<i>Alligator sinensis</i>	Chinese alligator	Critically Endangered	1	Stable	0.5	-	-	-	1	Indica: 1	U:100%, E:100%	0	-	41	1	25	1	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	0.56	95	0.56	180	0.69	172	8	1	CH		1975	2017	77		
Reptiles	Reptilia	Crocodylia	Alligatoridae	<i>Crocodilus palustris</i>	Asian water crocodile	Least Concern	-1	Stable	0.5	1	1.2 (severely negative decline; ongoing)	0.33	-	-	-	-	-	9,654,000	0	15	0	0	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	-	0.62	1108	0.11	937	0.02	940	8	1	CD		1975			
Reptiles	Reptilia	Crocodylia	Alligatoridae	<i>Crocodilus palustris</i>	Asian water crocodile	Least Concern	-1	Unknown	-	-	-	-	1	-	-	-	-	-	1	-	-	-	1	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	-	0.60	480	0.00	155.5	0.00	156	5	1	AR,BD,BR,JP,US		1975	1996		
Reptiles	Reptilia	Crocodylia	Alligatoridae	<i>Crocodilus palustris</i>	Asian water crocodile	Near Threatened	0.4	Unknown	-	-	-	-	0	-	-	-	-	-	0	-	-	-	0	Recovery plan; Monitoring scheme; No. Ex situ management; No. Education programme	0	-	0.25	620.5	0.50	666.5	0.50	702	4	0	BD,CD,EC,FR,JP,KE,PH,SE,US		1975	2000		
Reptiles	Reptilia	Crocodylia	Crocodylidae	<i>Crocodilus acutus</i>	American crocodile	Vulnerable	0.6	Increasing	0	1	1.1 (severely unknown;																													

Outcomes of the Appendix I Rapid Assessment - applying 3 different weighting approaches and a risk matrix

Taxonomic Details	Prevalence risk from observational trends based on risk matrix	Criterion 1.1: Red list status	Criterion 1.2: Population trend	Criterion 2.1: Threat from use	Criterion 2.2: Legal trade	Total quantity	Highest term	% by source	% by purpose	Score	Score	EOD	Score	Gen length	Score	Score	OTIS measure	Score	Actions	Score	Rank	Weighted rank	Weighted rank	Weighted rank	Weighted rank	Number of range States	Range States (EOD - red list)	OTIS Reservations	Year listed in Appendix I	Year assessed for most recent Red List assessment	Mean number of mature individuals (EOD Red List)		
																																Risk level	BDN Red list status
Plant	Caryophyllales	Cactaceae	Coryphantha arenostylis	Jabali pincushion cactus	F	Least Concern	-1	Stable	0.5	-	-	-	-	-	-	0	-	-	-	-	-	0.10	1117.5	0.30	869.5	0.10	1115	5	1	MX	1983	2009	-
Plant	Caryophyllales	Cactaceae	Discocactus behniae	Discocactus behniae	C	Vulnerable	-0.4	Decreasing	1	-	-	-	12.5	0.5	0	1	1	1	1	1	1	0.39	505	0.35	503	0.49	467	7	1	BR	1992	2010	-
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Vulnerable	-0.6	Stable	0.5	-	-	-	-	-	-	0	1	1	1	1	0.22	842	0.32	856	0.22	895	5	1	BO	1992	2010	-	
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Endangered	-1	Decreasing	1	-	-	-	-	-	-	0	1	1	1	1	0.60	1023.5	0.30	952	0.60	1023	5	1	BR	1992	2010	-	
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Endangered	-0.8	Decreasing	1	-	-	-	20	1	0	1	1	1	1	1	0.49	267	0.45	321	0.59	295	7	1	BR	1992	2010	5000	
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Endangered	-0.8	Decreasing	1	-	-	-	10	0.5	0	1	1	1	1	1	0.38	328.5	0.22	307.5	0.38	305.5	6	2	BO, BR	1992	2010	-	
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Critically Endangered	-1	Decreasing	1	-	-	-	10	0.5	0	1	1	1	1	0.42	429.5	0.22	469	0.42	412	6	2	BR, US	1992	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	10	0.5	0	1	1	1	1	0.32	480	0.35	388	0.32	388	6	2	BO, BR	1992	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Vulnerable	-0.6	Stable	0.5	0	-	-	100	1	0	1	1	1	1	0.26	753.5	0.34	903.5	0.26	913.5	6	1	BR	1992	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Least Concern	-1	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.11	908.5	0.05	838.5	0.11	849	6	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Endangered	-0.8	Decreasing	1	-	-	-	2000	1	-	0	1	1	1	0.24	267	0.45	321	0.59	295	7	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		
Plant	Caryophyllales	Cactaceae	Discocactus bolsonensis	Discocactus bolsonensis	F	Near Threatened	-0.4	Decreasing	1	-	-	-	-	-	-	0	1	1	1	0.28	709.5	0.08	620.5	0.28	702.5	2	1	BR	1993	2010	-		

Outcomes of the Appendix I Rapid Assessment - applying 3 different weighting approaches and a risk matrix

Taxonomic Details	Prevalence risk from observational data based on risk matrix	Criterion 1.1 Risk to status	Criterion 1.2 Population trend	Criterion 2.1 Threat from use	Criterion 2.2 In legal trade	Criterion 2.3 Substrate	Criterion 3.1 Range size	Criterion 3.2 Generation length	Criterion 3.3 Time to maturity	Criterion 4.2 CITES measures	Criterion 4.3 IUCN Conservation actions	Option 1: Two three multiplier approach (see appendix)					Option 2: Two three multiplier approach (see appendix)					Number of range States	Number of range States (SDG - codes)	CITES Reservations	Year listed in Appendix	Year assessed for most recent Red List assessment	Mean number of years individuals (SDG Red List)												
												Score	Score	Score	Score	Score	Score	Score	Score	Score	Score							Score	Score	Score	Score	Score	Score	Score					
Group	Class	Order	Family	Scientific name	Common name	Risk level	IUCN Red List status	Score	Threat classification	Score	Total quantity	Highest term	% by source	% by purpose	Score	Score	EOO	Score	Gen length	Score	Score	CITES measures	Score	Actions	Score	Final score	Rank	Weighted score	Weighted rank	Weighted score	Weighted rank	Weighted score	Weighted rank	Number of range States	Number of range States (SDG - codes)	CITES Reservations	Year listed in Appendix	Year assessed for most recent Red List assessment	Mean number of years individuals (SDG Red List)
Platan	Cycadites	Zamiaceae	Crotolaria	<i>Crotolaria retusa</i>	Yellow-flowered croton	C	Endangered	0.8	Decreasing	1	-	-	-	-	-	76	1	46	0.3	0	1	-	-	-	-	0.42	1013	0.31	129.5	0.42	1013	2	JA	LC	1985	2009	273		
Platan	Cycadites	Zamiaceae	Crotolaria	<i>Crotolaria retusa</i>	Yellow-flowered croton	C	Endangered	0.8	Decreasing	1	-	-	-	-	-	76	1	46	0.3	0	1	-	-	-	-	0.42	1013	0.31	129.5	0.42	1013	2	JA	LC	1985	2009	273		
Platan	Cycadites	Zamiaceae	Crotolaria	<i>Crotolaria retusa</i>	Yellow-flowered croton	C	Endangered	0.8	Decreasing	1	-	-	-	-	-	145	1	45	0.3	0	1	-	-	-	-	0.47	903	0.33	129.5	0.47	903	1	MC	1985	2009	230			
Platan	Cycadites	Zamiaceae	Crotolaria	<i>Crotolaria retusa</i>	Yellow-flowered croton	C	Critically Endangered	1	Decreasing	1	-	-	-	-	-	45	1	45	0.5	0	1	-	-	-	-	0.52	153.5	0.48	266.5	0.60	262	8	MC	1985	2009	50			
Platan	Cycadites	Zamiaceae	Crotolaria	<i>Crotolaria retusa</i>	Yellow-flowered croton	C	Critically Endangered	1	Decreasing	1	-	-	-	-	-	40	1	45	0.5	0	1	-	-	-	-	0.46	324	0.42	350	0.54	371.5	8	MC	1985	2009	300			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	C	Critically Endangered	1	Decreasing	1	-	-	-	-	-	12	1	70	0.5	0	1	-	-	-	-	0.46	324	0.42	350	0.54	371.5	8	MC	1977	2009	175			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	F	Vulnerable	0.6	Decreasing	1	-	-	-	-	-	3440	0	70	0.5	0	1	-	-	-	-	0.31	707	0.37	634	0.38	671	8	JA	1977	2009	700			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	F	Vulnerable	0.6	Decreasing	1	-	-	-	-	-	205	1	70	0.5	0	1	-	-	-	-	0.36	573.5	0.32	144	0.44	175	8	MC,SD,JA	1977	2009	3000			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	C	Endangered	0.8	Decreasing	1	-	-	-	-	-	450	1	70	0.5	0	1	-	-	-	-	0.50	202.5	0.46	300	0.58	311	8	MC	1977	2009	1215			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	C	Vulnerable	0.6	Decreasing	1	-	-	-	-	-	297450	0	70	0.5	0	1	-	-	-	-	0.21	85	0.30	189	0.43	583.5	8	MC,SD,JA,TC	1977	2009	12500			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	C	Endangered	0.8	Decreasing	1	-	-	-	-	-	140	1	70	0.5	0	1	-	-	-	-	0.31	695	0.39	736	0.51	741	8	MC	1977	2009	0			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	F	Vulnerable	0.6	Decreasing	1	-	-	-	-	-	230	1	70	0.5	0	1	-	-	-	-	0.38	536	0.34	511	0.47	520	8	MC	1977	2009	10000			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	F	Vulnerable	0.6	Decreasing	1	-	-	-	-	-	3530	0	35	0	0	1	-	-	-	-	0.26	777	0.22	712	0.34	715	8	JA	1977	2009	4000			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	C	Critically Endangered	1	Decreasing	1	-	-	-	-	-	13	1	35	0	0	1	-	-	-	-	0.46	345.5	0.42	388.5	0.54	348.5	8	MC,SD,JA	1977	2009	65			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	C	Endangered	0.8	Decreasing	1	-	-	-	-	-	40	1	70	0.5	0	1	-	-	-	-	0.50	253.5	0.45	300	0.58	311	8	MC,SD,JA	1977	2009	1250			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	C	Endangered	0.8	Decreasing	1	-	-	-	-	-	7500	0.5	70	0.5	0	1	-	-	-	-	0.43	388.5	0.39	404.5	0.52	416.5	8	MC,SD,JA	1977	2009	3750			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	C	Critically Endangered	1	Decreasing	1	-	-	-	-	-	18	1	200	1	0	1	-	-	-	-	0.58	80.5	0.54	188	0.67	181	8	MC	1977	2009	400			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	F	Vulnerable	0.6	Decreasing	1	-	-	-	-	-	200	1	100	1	0	1	-	-	-	-	0.21	800.5	0.07	205.5	0.31	809	7	MC	1977	2009	25000			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	C	Endangered	0.8	Decreasing	1	-	-	-	-	-	9500	0.5	70	0.5	0	1	-	-	-	-	0.43	388.5	0.39	404.5	0.52	416.5	8	MC	1977	2009	400			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	C	Critically Endangered	1	Decreasing	1	-	-	-	-	-	408	1	70	0.5	0	1	-	-	-	-	0.52	153.5	0.48	266.5	0.60	262	8	MC	1977	2009	415			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	C	Critically Endangered	1	Decreasing	1	-	-	-	-	-	3	1	70	0.5	0	1	-	-	-	-	0.52	153.5	0.48	266.5	0.60	262	8	MC	1977	2009	151			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	C	Critically Endangered	1	Decreasing	1	-	-	-	-	-	5	1	70	0.5	0	1	-	-	-	-	0.52	153.5	0.48	266.5	0.60	262	8	MC	1977	2009	200			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	C	Endangered	0.8	Decreasing	1	-	-	-	-	-	1250	1	70	0.5	0	1	-	-	-	-	0.44	348	0.40	384	0.51	428	8	MC	1977	2009	1081			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	F	Vulnerable	0.6	Decreasing	1	-	-	-	-	-	134110	0	70	0.5	0	1	-	-	-	-	0.32	686.5	0.28	626	0.40	621	8	MC,SD,JA	1977	2009	1300-03			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	F	Vulnerable	0.6	Decreasing	1	-	-	-	-	-	17970	0.5	70	0.5	0	1	-	-	-	-	0.38	526	0.34	511	0.47	520	8	MC	1977	2009	7500			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	F	Vulnerable	0.6	Decreasing	1	-	-	-	-	-	27540	0	70	0.5	0	1	-	-	-	-	0.35	620	0.30	580	0.41	583.5	8	MC	1977	2009	9000			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	C	Critically Endangered	1	Decreasing	1	-	-	-	-	-	13300	0	70	0.5	0	1	-	-	-	-	0.30	714	0.36	764	0.36	764	7	MC,SD,JA	1977	2009	20000			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	C	Critically Endangered	1	Decreasing	1	-	-	-	-	-	300	1	70	0.5	0	1	-	-	-	-	0.44	324	0.42	350	0.54	371.5	8	MC,SD,JA	1977	2009	420			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	F	Vulnerable	0.6	Decreasing	1	-	-	-	-	-	99370	0	70	0.5	0	1	-	-	-	-	0.28	740	0.25	677	0.36	700	8	MC,SD,JA	1977	2009	15000			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	C	Critically Endangered	1	Decreasing	1	-	-	-	-	-	2720	0.5	70	0.5	0	1	-	-	-	-	0.43	388.5	0.39	404.5	0.52	416.5	8	MC	1977	2009	108.5			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	C	Endangered	0.8	Decreasing	1	-	-	-	-	-	185	1	200	1	0	1	-	-	-	-	0.56	100	0.52	109.5	0.64	107	8	MC	1977	2009	5000			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	C	Vulnerable	0.6	Decreasing	1	-	-	-	-	-	1780	1	70	0.5	0	1	-	-	-	-	0.41	545	0.40	585	0.47	587	7	MC	1977	2009	7200			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	C	Critically Endangered	1	Decreasing	1	-	-	-	-	-	45	1	200	1	0	1	-	-	-	-	0.58	80.5	0.54	188	0.67	181	8	MC	1977	2009	81			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	F	Vulnerable	0.6	Decreasing	1	-	-	-	-	-	1600	0.5	70	0.5	0	1	-	-	-	-	0.47	536	0.34	511	0.47	520	7	MC	1977	2009	1000			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	C	Endangered	0.8	Decreasing	1	-	-	-	-	-	400	1	70	0.5	0	1	-	-	-	-	0.44	348	0.40	384	0.51	428	8	MC	1977	2009	400			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	F	Vulnerable	0.6	Decreasing	1	-	-	-	-	-	10470	0	70	0.5	0	1	-	-	-	-	0.40	497.5	0.35	478	0.48	486.5	8	MC,SD,JA	1977	2009	7500			
Platan	Cycadites	Zamiaceae	Encephalartos	<i>Encephalartos aeneus</i>	Nightjar cycad	F	Vulnerable	0.6	Decreasing	1	-	-	-	-	-	1160	1	70	0.5	0	1	-	-	-</															

Outcomes of the Appendix I Rapid Assessment - applying 3 different weighting approaches and a risk matrix

Taxonomic Details		Prevalence risk from observational data based on risk matrix		Criterion 1.1 Red List status		Criterion 1.2 Population trend		Criterion 2.1 Threat from use		Criterion 2.2 In legal trade		Criterion 2.3 Substrates		Criterion 3.1 Range size		Criterion 3.2 Generation length		Criterion 3.3 Time compliance		Criterion 4.2 OTES measures		Criterion 4.3 OCN Conservation actions		Option 1: Unweighted factor multiplied by criteria 2.1-2.3		Option 2: Two times unweighted factor applied to criteria 2.1-2.3		Option 3: Two times unweighted factor applied to criteria 2.1-2.3		Measures					
Group	Class	Order	Family	Scientific name	Common name	Risk level	ICBN Red List status	Score	Population trend	Score	Threat classification	Score	Total quantity	Highest term	% by source	% by purpose	Score	Score	Score	Score	Score	Score	Score	Score	Score	Score	Score	Score	Score	Score	Year listed in Appendix	Year assessed for most recent Red List assessment	Mean number of mature individuals (ICBN Red List)		
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia alcyon	Wristed leaf spurge	D	Endangered	0.8	Unknown	-	5.2 (severely unknown; ongoing)	0.66	0	1	-	-	-	0	-	0	1	-	-	0.58	85.5	0.85	38	1.02	15	6	1	MG	1990	2004	
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia alcyon var. amurensis		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia alcyon var. rubicunda		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia alcyon var. rubicunda		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		C	Endangered	0.8	Decreasing	1	5.2 (severely unknown; ongoing)	0.66	-	-	-	-	-	0	-	0	1	-	-	0.17	569	0.33	136	0.45	545	8	1	MG	1990	2019	
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	Vulnerable	0.6	Unknown	1	5.2 (severely unknown; ongoing)	0.66	-	-	-	-	-	0	-	0	1	-	-	0.25	785.5	0.18	743.5	0.38	665.5	5	1	MG	1990	2004	
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	0				
Plants	Euphorbiales	Euphorbiaceae	Euphorbia	Euphorbia thymifolia		F	-	-	-	-	-	-	-	-	-	-	-	0	-	0	1	-	-	0.00	1023										

Outcomes of the Appendix I Rapid Assessment - applying 3 different weighting approaches and a risk matrix

Taxonomic Details		Prevalence risk from observational data based on risk matrix		Criterion 1.1 Red list status		Criterion 1.2 Population trend		Criterion 2.1 Threat from use		Criterion 2.2 In legal trade				Criterion 2.3 Actions		Criterion 3.1 Range size		Criterion 3.2 Generation length		Criterion 3.3 Time compliance		Criterion 4.2 OTES measures		Criterion 4.3 IUCN Conservation actions		Option 1: Unweighted factor multiplied by criteria 2.1-2.2		Option 2: Two levels unweighted factor applied to criteria 2.1-2.2		Option 3: Two levels unweighted factor applied to criteria 2.1-2.2 and 4.2		Metadata								
Group	Class	Order	Family	Scientific name	Common name	Risk level	IUCN Red List status	Score	Population trend	Score	Threat classification	Score	Total quantity	Highest term	% by source	% by purpose	Score	Score	EOO	Score	Gen length	Score	Score	OTES measure	Score	Actions	Score	Final score	Rank	Weighted score	Weighted rank	Weighted score	Weighted rank	Number of listed entities	Number of range States	Range States (EOO - codes)	OTES Reservations	Year listed in Appendix I	Year assessed for most recent Red List assessment	Mean number of mature individuals (EOO Red List)
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium novum</i>	Snow white paphopedium	C	Endangered	0.8	Decreasing	1	5.2.1 (severity very rapid decline); 1 (range)	-	-	4200	1	7.5	0	0	1	-	-	-	-	-	-	-	0.48	287	0.48	276.5	0.60	277.5	8	2	MYN	-	1990	2014	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium pectinatum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	CN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium coli</i>		C	Critically Endangered	1	Decreasing	1	5.2.1 (severity very rapid decline); 1 (range); 5.2.2 (severity very rapid decline); 1 (range)	-	-	4	1	7.5	0	0	1	-	-	-	-	-	-	-	0.50	211	0.50	228.5	0.63	221	8	1	MY	-	1990	2014	40	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium papilio</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	LA	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium papilion</i>	Papua paphopedium	F	Endangered	0.8	Decreasing	1	5.2.1 (severity very rapid decline); 1 (range)	-	-	85000	0.5	7.5	0	0	0	1	-	-	-	-	-	-	-	0.41	460.5	0.41	380.5	0.54	377.5	8	2	IO,PG	-	1990	2014	25
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium porahit</i>		F	Endangered	0.8	Decreasing	1	5.2.1 (severity unknown; ongoing)	0.66	-	102000	0	7.5	0	0	0	1	-	-	-	-	-	-	0.5	0.13	659.5	0.29	607.5	0.40	628	9	5	CN,LA,MY,MN	-	1990	2014	-
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium pectinatum</i>		C	Critically Endangered	1	Decreasing	1	5.2.1 (severity very rapid decline); 1 (range)	-	-	8	1	7.5	0	0	1	-	-	-	-	-	-	-	0.50	211	0.50	228.5	0.63	221	4	1	PH	-	1990	2014	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium pectinatum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	CN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium philippense</i>	Philippine paphopedium	F	Near Threatened	0.4	Decreasing	1	5.2.1 (severity very rapid decline); 1 (range)	-	-	61000	0	7.5	0	0	1	-	-	-	-	-	-	-	-	0.30	744.5	0.30	399	0.43	369	8	2	MY,PH	-	1990	2014	-
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		C	Critically Endangered	1	Decreasing	1	5.2.1 (severity very rapid decline); 1 (range); 5.2.2 (severity very rapid decline); 1 (range)	-	-	4	1	7.5	0	0	1	-	-	-	-	-	-	-	0.50	211	0.50	228.5	0.63	221	8	1	MY	-	1990	2014	30	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	TH	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns	Orchidales	Orchidaceae	Asplenium	<i>Asplenium polyphyllum</i>		F	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	-	-	-	0.00	1023.5	0.33	1058	0.00	1023	3	1	IN	-	1990	-	-	
Ferns																																								

