

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



Seventeenth meeting of the Plants Committee  
Geneva (Switzerland), 15-19 April 2008

REVIEW OF THE USE OF SOURCE CODE 'R'

1. This document has been prepared by the Secretariat.
2. Decision 14.52 directs the Animals and Plants Committees to:
  - a) *review the CITES trade data maintained by the UNEP World Conservation Monitoring Centre [UNEP-WCMC] to determine the species for which source code R has been used for trade, and the countries where this has occurred;*
  - b) *survey countries applying source code R to species other than crocodilians transferred from Appendix I to Appendix II subject to ranching, and obtain information on the management programme for the species to which this source code is applied;*
  - c) *review the literature on wildlife management for current information on management systems that would resemble ranching (i.e. primarily focused on the harvest of specimens representing early life stages for rearing in captivity) and identify common elements in these programmes;*
  - d) *based on this review, propose a definition of ranching and the use of source code R for CITES purposes; and*
  - e) *report at the 15th meeting of the Conference of the Parties on the implementation of this decision.*
3. This Decision derives from a suggestion made by the Animals and Plants Committees themselves in document CoP14 Doc. 38 following unsuccessful attempts, under Decision 13.68, to carry out a wider review of production systems.
4. The term ranching was first used in a CITES context at the third meeting of the Conference of the Parties (New Delhi, 1981), where the Conference adopted Resolution Conf. 3.15 on *Ranching*, which established special criteria for the transfer of populations from Appendix I to Appendix II for ranching purposes. This Resolution was repealed at the 10th meeting of the Conference of the Parties (Harare, 1997) by Resolution Conf. 10.18 on *Ranching and trade in ranched specimens*, which was itself repealed at the 11th meeting (Gigiri, 2000) by Resolution Conf. 11.16 on *Ranching and trade in ranched specimens of species transferred from Appendix I to Appendix II*. This Resolution was amended at the 14th meeting of the Conference of the Parties (The Hague, 2007) and is now Resolution Conf. 11.16 (Rev. CoP14). Ranching has been defined throughout these Resolutions as the 'rearing in a controlled environment of specimens taken from the wild'. From Resolution Conf. 10.18 onwards, the Parties added in the preambular text of the Resolutions that they were aware that ranching of crocodilians on the basis of controlled collection of eggs or hatchlings could be

potentially a valuable and positive conservation tool, whereas taking of wild adult animals needs stricter control.

5. The following crocodilian populations have been transferred from Appendix I to Appendix II following successful ranching proposals:

<b>Population of</b>	<b>Species</b>	<b>CoP number and year of transfer from Appendix I to Appendix II</b>
Argentina	<i>Caiman latirostris</i>	CoP10, 1997
Botswana	<i>Crocodylus niloticus</i>	CoP7, 1989
Cuba	<i>Crocodylus acutus</i>	CoP13, 2004
Ecuador	<i>Melanosuchus niger</i>	CoP9, 1994
Ethiopia	<i>Crocodylus niloticus</i>	CoP8, 1992
Indonesia	<i>Crocodylus porosus</i>	CoP9, 1994
Kenya	<i>Crocodylus niloticus</i>	CoP8, 1992
Madagascar	<i>Crocodylus niloticus</i>	CoP10, 1997
Malawi	<i>Crocodylus niloticus</i>	CoP7, 1989
Mozambique	<i>Crocodylus niloticus</i>	CoP7, 1989
South Africa	<i>Crocodylus niloticus</i>	CoP9, 1994
Uganda	<i>Crocodylus niloticus</i>	CoP10, 1997
Zambia	<i>Crocodylus niloticus</i>	CoP7, 1989
Zimbabwe	<i>Crocodylus niloticus</i>	CoP4, 1983

6. According to Resolution Conf. 12.3 (Rev. CoP14) on *Permits and certificates*, source code 'R' is to be applied to 'Specimens originating in a ranching operation', but the Resolution does not specifically link this to Resolution Conf. 11.16 (Rev. CoP14).
7. At the request of the Secretariat, UNEP-WCMC has provided printouts, derived from CITES annual reports, showing all exports of specimens of species with the source code declared as 'R', for the years 1991-2005. This information is presented in the Annexes to the present document.
8. The trade data provided by UNEP-WCMC show that source code 'R' has been used rather inconsistently by Parties for species other than crocodilians listed in paragraph 5. Repeated use by the same Party, for the same species, for a number of years, is the exception rather than the rule.
9. The Committees are invited to review countries which are using the source code 'R' and identify those doing so on a regular basis for species other than crocodilians transferred from Appendix I to Appendix II subject to ranching. The Secretariat will then seek information from these countries about the management programmes for such species. The Committees are also invited to decide how they will review the literature on wildlife management for current information on management systems that would resemble ranching (i.e. primarily focused on the harvest of specimens representing early life stages for rearing in captivity) and identify common elements in these programmes, so that at their next meetings they can agree a definition of ranching and the use of source code 'R' for CITES purposes which can be reported at the 15th meeting of the Conference of the Parties in compliance with Decision 14.52.

**Direct exports of ranched material**

Country	Taxon	App	Term	Unit	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
AR	<i>Caiman latirostris</i>	2	live										3		2	104			
AR	<i>Caiman latirostris</i>	2	small leather products												6	12	579	182	
AR	<i>Caiman latirostris</i>	2	small leather products	kg													10.15		
AR	<i>Caiman latirostris</i>	2	small leather products	pairs												66			
AR	<i>Caiman latirostris</i>	2	skins												88	90	165	215	2752
AR	<i>Caiman latirostris</i>	2	skin pieces	kg												0.25			
AR	<i>Caiman latirostris</i>	2	skin pieces	skins												12.1			
AR	<i>Caiman yacare</i>	2	small leather products															1	
AR	<i>Caiman yacare</i>	2	small leather products	pairs														106	
AR	<i>Caiman yacare</i>	2	skins														1	1291	
AR	<i>Caiman yacare</i>	2	specimens														1		
AU	<i>Crocodylus johnsoni</i>	2	belts									2							
AU	<i>Crocodylus johnsoni</i>	2	bodies							1		2				1			
AU	<i>Crocodylus johnsoni</i>	2	bodies	kg					48										
AU	<i>Crocodylus johnsoni</i>	2	garments									1	1						
AU	<i>Crocodylus johnsoni</i>	2	small leather products													7	2		
AU	<i>Crocodylus johnsoni</i>	2	meat	kg		590	730			18									
AU	<i>Crocodylus johnsoni</i>	2	skins			3875	1271	1943	1571	194	299								
AU	<i>Crocodylus johnsoni</i>	2	skin/leather items						24	34	1								
AU	<i>Crocodylus johnsoni</i>	2	skin pieces							100	70								
AU	<i>Crocodylus johnsoni</i>	2	skin pieces	kg			1												
AU	<i>Crocodylus johnsoni</i>	2	watchstraps						40										
AU	<i>Crocodylus porosus</i>	2	belts						14	7	100		117	349					
AU	<i>Crocodylus porosus</i>	2	bodies						1		2	4			2	2			
AU	<i>Crocodylus porosus</i>	2	bodies	kg								2049							
AU	<i>Crocodylus porosus</i>	2	bones	kg				3118	1520							1000			
AU	<i>Crocodylus porosus</i>	2	carvings															16	
AU	<i>Crocodylus porosus</i>	2	claws				10					6							
AU	<i>Crocodylus porosus</i>	2	eggs										1					833	
AU	<i>Crocodylus porosus</i>	2	garments						4		15		1	124					
AU	<i>Crocodylus porosus</i>	2	handbags																

Country	Taxon	App	Term	Unit	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
AU	<i>Crocodylus porosus</i>	2	heads									2			21				
AU	<i>Crocodylus porosus</i>	2	live															2	
AU	<i>Crocodylus porosus</i>	2	large leather products											1		1			
AU	<i>Crocodylus porosus</i>	2	small leather products									705	982	684	1391	2614	5351	2980	7
AU	<i>Crocodylus porosus</i>	2	meat						650								15		
AU	<i>Crocodylus porosus</i>	2	meat	g											1500				
AU	<i>Crocodylus porosus</i>	2	meat	kg		5352	2476	5962	5761	1997	1544	0	576	209	2.5	10	65	163	
AU	<i>Crocodylus porosus</i>	2	shoes	pairs							2								
AU	<i>Crocodylus porosus</i>	2	skins			4293	3424	4953	6763	4088	6436	1848	5162	3493	2984	2112	1359	4022	
AU	<i>Crocodylus porosus</i>	2	skins	backskins												640		997	
AU	<i>Crocodylus porosus</i>	2	skins	bellyskins											108		1712	208	
AU	<i>Crocodylus porosus</i>	2	skin/leather items					464	1125	1			43						
AU	<i>Crocodylus porosus</i>	2	skin pieces						516	507	132	6	4			80	6019	2277	
AU	<i>Crocodylus porosus</i>	2	skulls						4	14		9	1	53	2		110	1	
AU	<i>Crocodylus porosus</i>	2	specimens	g									500						
AU	<i>Crocodylus porosus</i>	2	specimens	ml				60											
AU	<i>Crocodylus porosus</i>	2	tails			12													
AU	<i>Crocodylus porosus</i>	2	teeth		2000	10				6	2002		5000	5000		480	3	2	
AU	<i>Crocodylus porosus</i>	2	teeth	sets												500			
AU	<i>Crocodylus porosus</i>	2	trophies							1		1					1	2	
AU	<i>Crocodylus porosus</i>	2	unspecified												337				
AU	<i>Crocodylus porosus</i>	2	wallets					4	12	3		126	487						
AU	<i>Crocodylus porosus</i>	2	watchstraps							5									
AU	<i>Ornithoptera chimaera</i>	2	bodies												4	6			
AU	<i>Ornithoptera goliath</i>	2	bodies							12		2			5	28			
AU	<i>Ornithoptera paradisea</i>	2	bodies							6						6			
AU	<i>Ornithoptera paradisea</i>	2	bodies	pairs						1									
AU	<i>Ornithoptera priamus</i>	2	bodies							6									
AU	<i>Ornithoptera priamus</i>	2	bodies	pairs						10									
AU	<i>Ornithoptera priamus euphorion</i>	2	bodies											5					
AU	<i>Ornithoptera richmondia</i>	2	bodies							2									
AU	<i>Ornithoptera rothschildi</i>	2	bodies							2									
AU	<i>Ornithoptera tithonus</i>	2	bodies							10									
AU	<i>Ornithoptera urvillianus</i>	2	bodies										2						
AU	<i>Ornithoptera victoriae</i>	2	bodies											2	16				
BI	<i>Stigmochelys pardalis</i>	2	live												60	80			
BI	<i>Chamaeleo ellioti</i>	2	live												250				
BI	<i>Chamaeleo johnstoni</i>	2	live												300				
BI	<i>Varanus niloticus</i>	2	live												250	100			
BJ	<i>Geochelone sulcata</i>	2	live								10	28	28	147	100		69	3	
BJ	<i>Kinixys belliana</i>	2	live							4867	7230	4655	857	915	598		745		
BJ	<i>Kinixys erosa</i>	2	live											100	25				



Country	Taxon	App	Term	Unit	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
CN	<i>Felis bieti</i>	2	skins													6				
CN	<i>Felis bieti</i>	2	specimens													2				
CN	<i>Felis manul</i>	2	hair													2				
CN	<i>Felis manul</i>	2	skins													8				
CN	<i>Felis manul</i>	2	specimens													10				
CN	<i>Felis silvestris</i>	2	skins													5				
CN	<i>Lynx lynx</i>	2	hair													1				
CN	<i>Lynx lynx</i>	2	skins													4				
CN	<i>Lynx lynx</i>	2	specimens													17				
CN	<i>Panthera tigris</i>	1	live			2														
CN	<i>Prionailurus bengalensis</i>	2	hair													3				
CN	<i>Prionailurus bengalensis</i>	2	skins													4				
CN	<i>Prionailurus bengalensis</i>	2	specimens													16				
CN	<i>Acipenser baerii</i>	2	live	kg												3000				
CN	<i>Acipenser schrenckii</i>	2	live	kg												1500	300			
CO	<i>Bothrops asper</i>	3	venom	g												3				
CO	<i>Crotalus durissus</i>	3	venom	g												6	6			
CR	<i>Iguana iguana</i>	2	live								2006									
CU	<i>Phoenicopterus ruber</i>	2	live								38	103	591	430	311	370	369	289	398	
ET	<i>Crocodylus niloticus</i>	2	skins							2005					42	59	1354	446	101	
GH	<i>Geochelone sulcata</i>	2	live												252					
GH	<i>Kinixys homeana</i>	2	live														50			
GH	<i>Pelusios castaneus</i>	3	live														75			
GH	<i>Pelusios gabonensis</i>	3	live												45					
GH	<i>Chamaeleo gracilis</i>	2	live												400			25		
GH	<i>Varanus exanthematicus</i>	2	live														520	550		
GH	<i>Varanus niloticus</i>	2	live															120		
GH	<i>Python regius</i>	2	live								17614	16294	25460	27583	29019	34063	41075	48010	55530	1E+05
GH	<i>Python sebae</i>	2	live								366	302	200	334	147	101	615	635	539	706
GH	<i>Gongylophis muelleri</i>	2	live															65		
GH	<i>Pandinus imperator</i>	2	live															300	200	
HN	<i>Amazona auropalliata</i>	1	live																1	
HN	<i>Crocodylus acutus</i>	1	skins															197	51	
HN	<i>Boa constrictor</i>	2	live																2060	
HN	<i>Eunectes murinus</i>	2	live																6	
HN	<i>Micrurus diastema</i>	2	live																5	
HN	<i>Bothriechis schlegelii</i>	N	live																5	
HN	<i>Crotalus durissus</i>	3	live																10	
ID	<i>Crocodylus novaeguineae novaeguineae</i>	2	bodies																1	
ID	<i>Crocodylus novaeguineae novaeguineae</i>	2	handbags												22					
ID	<i>Crocodylus novaeguineae novaeguineae</i>	2	live												126					
ID	<i>Crocodylus novaeguineae novaeguineae</i>	2	large leather products												25	10				

Country	Taxon	App	Term	Unit	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005		
ID	<i>Crocodylus novaeguineae</i> <i>novaeguineae</i>	2	small leather products								853	926	485	1296	4426	3221	1682	132	1943		
ID	<i>Crocodylus novaeguineae</i> <i>novaeguineae</i>	2	meat	kg							72			10552							
ID	<i>Crocodylus novaeguineae</i> <i>novaeguineae</i>	2	skins								100	8506	6574	7215	8928	8586	5704	2415	2471		
ID	<i>Crocodylus novaeguineae</i> <i>novaeguineae</i>	2	skins	backskins										4590							
ID	<i>Crocodylus novaeguineae</i> <i>novaeguineae</i>	2	teeth											10000							
ID	<i>Crocodylus porosus</i>	2	bodies																3		
ID	<i>Crocodylus porosus</i>	2	handbags									21									
ID			small leather products																		
ID	<i>Crocodylus porosus</i>	2	skins									150		952	563	616	822	202	2101		
ID	<i>Crocodylus porosus</i>	2	skins	backskins										1087	3072	3397	20	2485	3486	3755	
ID	<i>Crocodylus porosus</i>	2	skins	bellyskins										1500							
ID	<i>Crocodylus porosus</i>	2	skin pieces												2085						
ID	<i>Ornithoptera hybrid</i>	2	bodies								13	134									
ID	<i>Ornithoptera aesacus</i>	2	bodies								245	4				248	329	798	864		
ID	<i>Ornithoptera chimaera</i>	2	bodies													3	80	316			
ID	<i>Ornithoptera croesus</i>	2	bodies								1631	1274				892	874	2670	3930		
ID	<i>Ornithoptera goliath</i>	2	bodies								2148	148				168	338	487	1553	1398	1674
ID	<i>Ornithoptera goliath</i> <i>samson</i>	2	bodies									980	499	77	622	169					
ID	<i>Ornithoptera goliath</i> <i>samson</i>	2	live									105	12	60	39						
ID	<i>Ornithoptera meridionalis</i>	2	bodies														314	348	516		
ID	<i>Ornithoptera paradisea</i>	2	bodies								475	277	305	32	128	170	108	1354	982	1008	
ID	<i>Ornithoptera paradisea</i>	2	live										2								
ID	<i>Ornithoptera priamus</i>	2	bodies								5049	1460				596	1709	1597	3753	5754	8089
ID	<i>Ornithoptera priamus</i>	2	live									100				200					1840
ID	<i>Ornithoptera priamus</i> <i>poseidon</i>	2	bodies									2078	1843	491	1761	302					
ID	<i>Ornithoptera priamus</i> <i>poseidon</i>	2	live									165	22	920	112						
ID	<i>Ornithoptera rothschildi</i>	2	bodies								1971	1292	715	228	1599	173	84	980	1000	1550	
ID	<i>Ornithoptera rothschildi</i>	2	live										2								
ID	<i>Ornithoptera tithonus</i>	2	bodies								1456	591	400	65	486	216	171	582	599	769	
ID	<i>Ornithoptera tithonus</i>	2	live									55	12	10	46						
ID	<i>Trogonoptera brookiana</i>	2	bodies																40	1135	
ID	<i>Troides hybrid</i>	2	bodies								88										
ID	<i>Troides amphrysus</i>	2	bodies								80	240					80	74	1310	1177	
ID	<i>Troides criton</i>	2	bodies								135							460	1252		
ID	<i>Troides cuneifer</i>	2	bodies								65	140					162	383	697	580	
ID	<i>Troides dohertyi</i>	2	bodies								6	18					12		136		
ID	<i>Troides haliphron</i>	2	bodies								120	520					216	235	1485	1480	



Country	Taxon	App	Term	Unit	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
MG	<i>Phelsuma laticauda</i>	2	live												855	125		99		
MG	<i>Phelsuma lineata</i>	2	live												810	115		90		
MG	<i>Phelsuma madagascariensis</i>	2	live												1692	150		70		
MG	<i>Phelsuma quadriocellata</i>	2	live												951	120		85		
MG	<i>Brookesia stumpffi</i>	2	live															20		
MG	<i>Furcifer lateralis</i>	2	live												1295	75		111		
MG	<i>Furcifer oustaleti</i>	2	live												338	40		58		
MG	<i>Furcifer pardalis</i>	2	live											600	3330	475		121		
MG	<i>Furcifer verrucosus</i>	2	live												318	36		29		
MG	<i>Mantella spp.</i>	2	live															40		
MG	<i>Mantella bernhardi</i>	2	live															80		
MG	<i>Mantella betsileo</i>	2	live															50		
MG	<i>Mantella cowani</i>	2	live															100		
MG	<i>Mantella expectata</i>	2	live															80		
MG	<i>Mantella madagascariensis</i>	2	live															150		
MG	<i>Mantella pulchra</i>	2	live															120		
MG	<i>Mantella viridis</i>	2	live															50		
MK	<i>Testudo hermanni</i>	2	live												642	1200	1200			
MU	<i>Crocodylus niloticus</i>	1	handbags									5								
MU	<i>Crocodylus niloticus</i>	1	heads												7					
MU	<i>Crocodylus niloticus</i>	1	small leather products											20	11	36				
MW	<i>Crocodylus niloticus</i>	2	skins		799		2036	1510	950									420		
MY	<i>Psittinus cyanurus</i>	2	live															85		
MY	<i>Python reticulatus</i>	2	live															40		
MZ	<i>Kinixys belliana</i>	2	live								590	100								
MZ	<i>Stigmochelys pardalis</i>	2	live								950	350						200		
MZ	<i>Crocodylus niloticus</i>	1	live								3400									
MZ	<i>Crocodylus niloticus</i>	1	skins								45									
MZ	<i>Crocodylus niloticus</i>	2	live					49		1100	1500				10000	49	3000	5600	25000	24200
MZ	<i>Crocodylus niloticus</i>	2	skins			2725	3164	1042	3021	477	730	810	402	718	477	293	4792		834	
MZ	<i>Crocodylus niloticus</i>	2	skins	backskins											183			2000	3671	
MZ	<i>Crocodylus niloticus</i>	2	skins	bellyskins											408				329	
MZ	<i>Crocodylus niloticus</i>	2	trophies							2	5									
NA	<i>Crocodylus niloticus</i>	1	live													1000				
NE	<i>Panthera leo</i>	2	live															2		
NE	<i>Struthio camelus</i>	1	live															4		
NI	<i>Buteo magnirostris</i>	2	bodies								4									
NI	<i>Buteo platypterus</i>	2	bodies								1									
NI	<i>Ictyophaga americanus</i>	2	bodies								3									
NI	<i>Micrastur ruficollis</i>	2	bodies								1									
NI	<i>Amazona albifrons</i>	2	bodies								2									
NI	<i>Amazona albifrons</i>	2	live					463	584	1198	1435	1137	1194	1265		894	781	259		
NI	<i>Amazona auropalliata</i>	1	live															1		
NI	<i>Amazona auropalliata</i>	2	bodies								4									
NI	<i>Amazona auropalliata</i>	2	live					643	926	819	854	755	794	661		583	60			

Country	Taxon	App	Term	Unit	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
NI	<i>Amazona autumnalis</i>	2	live					1759	459	2319	2662	2298	2285	2220		1622	979	555	
NI	<i>Amazona farinosa</i>	2	live					694	866	696	798	721	673	543		427	231	70	
NI	<i>Aratinga canicularis</i>	2	bodies							4									
NI	<i>Aratinga canicularis</i>	2	live					420	922	560	506	429	358	381		358	257	66	
NI	<i>Aratinga finschi</i>	2	bodies							1									
NI	<i>Aratinga finschi</i>	2	live					40	354	219	103	111	54	72		48	47		
NI	<i>Aratinga holochlora</i>	2	bodies							2									
NI	<i>Aratinga holochlora</i>	2	live					70	255	122	98	166	68	79		113	49		
NI	<i>Aratinga nana astec</i>	2	live						15	12	71	17	55	61		83	45		
NI	<i>Brotogeris jugularis</i>	2	bodies							2									
NI	<i>Brotogeris jugularis</i>	2	live					407	1091	274	191	269	177	177		184	187	81	
NI	<i>Pionopsitta haematonotis</i>	2	bodies							1									
NI	<i>Pionopsitta haematonotis</i>	2	live								2								
NI	<i>Pionus senilis</i>	2	live					411	483	379	516	359	366	492		513	319	222	
NI	<i>Otus cooperi</i>	2	bodies							1									
NI	<i>Strix virgata</i>	2	bodies							2									
NI	<i>Trochilidae spp.</i>	2	bodies							82									
NI	<i>Amazilia cyanura</i>	2	bodies								18								
NI	<i>Amazilia rutila</i>	2	bodies								11								
NI	<i>Amazilia saucerottei</i>	2	bodies								14								
NI	<i>Chlorostilbon canivetii</i>	2	bodies								1								
NI	<i>Eugenes fulgens</i>	2	bodies								8								
NI	<i>Heliomaster constantii</i>	2	bodies								2								
NI	<i>Hylocharis eliciae</i>	2	bodies								14								
NI	<i>Phaethornis longuemareus</i>	2	bodies								7								
NI	<i>Threnetes ruckeri</i>	2	bodies								1								
NI	<i>Pharomachrus mocinno</i>	1	bodies								2								
NI	<i>Ramphastos sulfuratus</i>	2	bodies								4								
NI	<i>Ramphastos sulfuratus</i>	2	live					185	454	392	377	266	212	377		234	149	69	
NI	<i>Dendrobates auratus</i>	2	live									245	2272	1956					
NI	<i>Dendrobates pumilio</i>	2	live									619	4681	3450					
NZ	<i>Addax nasomaculatus</i>	1	trophies															1	
NZ	<i>Antelope cervicapra</i>	3	trophies															1	
PE	<i>Callithrix pygmaea</i>	2	live										24						
PE	<i>Aotus nancymaae</i>	2	live					76											
PE	<i>Aotus vociferans</i>	2	live						20										
PE	<i>Saimiri boliviensis</i>	2	live						45										
PE	<i>Vultur gryphus</i>	1	live							1									
PE	<i>Geranoaetus melanoleucus</i>	2	live							4									
PE	<i>Penelope albipennis</i>	1	live					2											
PE	<i>Agapornis fischeri</i>	2	live								10								
PE	<i>Agapornis nigricenis</i>	2	live								2								
PE	<i>Agapornis personatus</i>	2	live							5	8								
PE	<i>Agapornis roseicollis</i>	2	live								10								
PE	<i>Brotogeris pyrrhoptera</i>	2	live								2								
PE	<i>Forpus coelestis</i>	2	live							10	6								
PE	<i>Forpus xanthops</i>	2	live								6								
PE	<i>Psilopsiagon aurifrons</i>	2	live								6								

Country	Taxon	App	Term	Unit	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
PE	<i>Psittacula krameri</i>	3	live							2									
PE	<i>Boa constrictor</i>	2	live										45	20					
PE	<i>Epicrates cenchria</i>	2	live										45	114					
PE	<i>Arapaima gigas</i>	2	live										950	1300					
PG	<i>Crocodylus spp.</i>	2	meat		4500														
PG	<i>Crocodylus spp.</i>	2	meat	kg	1728									15000	90000				
PG	<i>Crocodylus spp.</i>	2	teeth								300								
PG	<i>Crocodylus novaeguineae</i> <i>novaeguineae</i>	2	meat	kg	1500														
PG	<i>Crocodylus novaeguineae</i> <i>novaeguineae</i>	2	scales											20					
PG	<i>Crocodylus novaeguineae</i> <i>novaeguineae</i>	2	skins		3947						119	1185		2694	1459				
PG	<i>Crocodylus novaeguineae</i> <i>novaeguineae</i>	2	skin pieces		408									160					
PG	<i>Crocodylus porosus</i>	2	meat	kg	6544									12000					
PG	<i>Crocodylus porosus</i>	2	scales											263					
PG	<i>Crocodylus porosus</i>	2	skins		2192						1	139		6444	7796				
PG	<i>Crocodylus porosus</i>	2	skins	backskins										4455					
PG	<i>Crocodylus porosus</i>	2	skin pieces		792									3542					
PG	<i>Crocodylus porosus</i>	2	skulls											6					
PG	<i>Crocodylus porosus</i>	2	specimens											20					
PG	<i>Crocodylus porosus</i>	2	teeth											40032	39449				
PG	<i>Papilionidae spp.</i>	2	bodies								1028								
PG	<i>Papilionidae hybrid</i>	2	bodies								6	1	5						
PG	<i>Ornithoptera spp.</i>	2	bodies								40					433			
PG	<i>Ornithoptera hybrid</i>	2	bodies											1					
PG	<i>Ornithoptera caelestis</i>	2	bodies								42		101			112			
PG	<i>Ornithoptera chimaera</i>	2	bodies								32	600	206	581	281	802	275	623	
PG	<i>Ornithoptera chimaera</i>	2	live								40								
PG	<i>Ornithoptera goliath</i>	2	bodies								183	495	512	604	260	1724	1968	1887	
PG	<i>Ornithoptera goliath</i>	2	live								800								
PG	<i>Ornithoptera goliath supremus</i>	2	bodies										353	665	455	838	347		
PG	<i>Ornithoptera meridionalis</i>	2	bodies								56	214	219	573	161	187	105	119	
PG	<i>Ornithoptera paradisea</i>	2	bodies								9	62	65	265	16	18	44	4	
PG	<i>Ornithoptera priamus</i>	2	bodies								3924	3911	4225	4371	4752	15249	7705	12411	
PG	<i>Ornithoptera priamus</i>	2	live								3016								
PG	<i>Ornithoptera priamus admiraltyatus</i>	2	bodies											78	23		9		
PG	<i>Ornithoptera priamus bornemanni</i>	2	bodies										50	134	482	274	20		
PG	<i>Ornithoptera priamus demophanes</i>	2	bodies										20	48	105	85	2		
PG	<i>Ornithoptera priamus miokensis</i>	2	bodies													5			
PG	<i>Ornithoptera priamus poseidon</i>	2	bodies										3380	9184	6359	3378	3042		
PG	<i>Ornithoptera urvillianus</i>	2	bodies										10	1187	2970	1036	703		

Country	Taxon	App	Term	Unit	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
PG	<i>Ornithoptera victoriae</i>	2	bodies									40	378	417	36	612	151	333		
PG	<i>Ornithoptera victoriae reginae</i>	2	bodies									110	78	351			9			
PG	<i>Troides oblongomaculatus</i>	2	bodies								1219	624	6451	2315	270	6312	216	4111		
PG	<i>Troides oblongomaculatus</i>	2	live								1866									
PG	<i>Troides oblongomaculatus papuensis</i>	2	bodies									857	1099	2249	1547		2328			
RO	<i>Falco biarmicus</i>	2	live									7								
SA	<i>Oryx leucoryx</i>	1	live														10			
TC	<i>Strombus gigas</i>	2	live	kg													267.6	551.2		
TC	<i>Strombus gigas</i>	2	meat	kg													748.2	2483		
TC	<i>Strombus gigas</i>	2	shells														1610	2987		
TG	<i>Geochelone sulcata</i>	2	live									190	67				18	10		
TG	<i>Kinixys belliana</i>	2	live								50	655	1045		2515	2768	3565	2006	2530	
TG	<i>Kinixys erosa</i>	2	live									75	235		350					
TG	<i>Kinixys homeana</i>	2	live								50	530	935		1960	1447	1888	1971	1789	
TG	<i>Pelomedusa subrufa</i>	3	live									560	1630		625	845	1325	5080	200	
TG	<i>Pelusios castaneus</i>	3	live															610		
TG	<i>Pelusios niger</i>	3	live									660	808		555	625	622	2845		
TG	<i>Crocodylus niloticus</i>	1	skins															8		
TG	<i>Chamaeleo gracilis</i>	2	live								975		190	970		1007	1185	450	1200	690
TG	<i>Chamaeleo senegalensis</i>	2	live										1050	2945		5102	3585	3790	1510	1535
TG	<i>Varanus exanthematicus</i>	2	live								6892	6730		430	1090	3974	2172	2234	4700	3560
TG	<i>Varanus niloticus</i>	2	live								5417	4460		555	1170	2264	2910	1535	1625	2390
TG	<i>Python regius</i>	2	live								5925	16980		2595	17454	26810	21179	48705	52674	49422
TG	<i>Python sebae</i>	2	live									159			160	5181	340	395	516	426
TG	<i>Calabaria reinhardtii</i>	2	live												120	30	58	76	80	
TG	<i>Pandinus imperator</i>	2	live										1520	5250		12155	8680	11775	8750	12970
TH	<i>Arapaima gigas</i>	2	live												3					
TZ	<i>Geochelone gigantea</i>	2	live								100									
TZ	<i>Kinixys belliana</i>	2	live								45	25								
TZ	<i>Malacoctenus tornieri</i>	2	live								100	404	190							
TZ	<i>Stigmochelys pardalis</i>	2	live								1080		752	302						
TZ	<i>Bradypodion tenuie</i>	2	live										6							
TZ	<i>Chamaeleo deremensis</i>	2	live									42	15							
TZ	<i>Chamaeleo jacksonii</i>	2	live									23								
UA	<i>Hirudo medicinalis</i>	2	live											60000						
UG	<i>Crocodylus niloticus</i>	2	skins				4019	4817												
US	<i>Lynx rufus</i>	2	skins														460	205		
US	<i>Lynx rufus</i>	2	trophies												2	1				
US	<i>Addax nasomaculatus</i>	1	trophies												1		2			
US	<i>Ammotragus lervia</i>	2	trophies											1	4	2	1	1		
US	<i>Antilope cervicapra</i>	3	live														38			
US	<i>Antilope cervicapra</i>	3	trophies											1	10	5	2	2		
US	<i>Capra falconeri</i>	1	trophies												1					
US	<i>Kobus leche</i>	2	trophies												1					
US	<i>Nanger dama</i>	1	trophies														2			
US	<i>Oryx dammah</i>	1	trophies												3					

Country	Taxon	App	Term	Unit	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
US	<i>Oryx leucoryx</i>	1	trophies														1			
US	<i>Rhea americana</i>	2	eggs													100	200			
US	<i>Eudocimus ruber</i>	2	live												343					
US	<i>Anas diazi</i>	1	feathers														10			
US	<i>Falco rusticolus</i>	1	live													4				
US	<i>Geochelone carbonaria</i>	2	live														10			
US	<i>Trionyx triunguis</i>	3	live									2								
US	<i>Alligator mississippiensis</i>	2	garments												1	3				
US	<i>Alligator mississippiensis</i>	2	large leather products													5	1	8	58	
US	<i>Alligator mississippiensis</i>	2	small leather products															2		
US	<i>Alligator mississippiensis</i>	2	meat	kg								362	454		24	12	101	86	40	
US	<i>Alligator mississippiensis</i>	2	shoes									12				13	58	62	60	
US	<i>Alligator mississippiensis</i>	2	skins									1203	6794	18945	43395	24245	50693	19921	974	
US	<i>Alligator mississippiensis</i>	2	skins	cm												331				
US	<i>Alligator mississippiensis</i>	2	skin pieces										644	41	465	750	1502	1285	12	
US	<i>Alligator mississippiensis</i>	2	skin pieces	cm									195							
US	<i>Alligator mississippiensis</i>	2	skin pieces	kg												102	276			
US	<i>Alligator mississippiensis</i>	2	skulls													1				
US	<i>Alligator mississippiensis</i>	2	tails															929		
US	<i>Alligator mississippiensis</i>	2	unspecified																1	
US	<i>Scleractinia spp.</i>	2	raw corals	kg														542		
US	<i>Scleractinia spp.</i>	2	live	kg												727				
US	<i>Favia spp.</i>	2	live	kg												71				
US	<i>Favites spp.</i>	2	live	kg												80				
US	<i>Oculinidae spp.</i>	2	live	kg												80				
US	<i>Oculina spp.</i>	2	live	kg												72				
UY	<i>Myiopsitta monachus</i>	2	live														1860	500		
UZ	<i>Testudo horsfieldii</i>	2	live												2000	2000	6000	8150	38801	
UZ	<i>Eryx tataricus</i>	2	live																70	
VE	<i>Geochelone carbonaria</i>	2	live															780		
VE	<i>Podocnemis unifilis</i>	2	live													100	300	775		
VE	<i>Caiman crocodilus</i>	2	live												9390	17500	7200	11100	10512	
VE	<i>Caiman crocodilus</i>	2	skins											8200						
VE	<i>Boa constrictor</i>	2	live																50	
VN	<i>Macaca fascicularis</i>	2	live																180	
VN	<i>Helarctos malayanus</i>	1	specimens																80	
VN	<i>Helarctos malayanus</i>	1	specimens	ml															340	
VN	<i>Ursus thibetanus</i>	1	specimens																131	
VN	<i>Ursus thibetanus</i>	1	specimens	ml															386	
ZA	<i>Crocodylus niloticus</i>	2	bones											2						
ZA	<i>Crocodylus niloticus</i>	2	small leather products									112					85	58	100	21

Country	Taxon	App	Term	Unit	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
ZA	<i>Crocodylus niloticus</i>	2	meat	kg							28126	8000				2000			
ZA	<i>Crocodylus niloticus</i>	2	skins								200	378		200			1		
ZA	<i>Crocodylus niloticus</i>	2	skulls									10							
ZA	<i>Crocodylus niloticus</i>	2	trophies								4								
ZM	<i>Acinonyx jubatus</i>	1	live															1	
ZM	<i>Panthera leo</i>	2	trophies															1	
ZM	<i>Damaliscus lunatus</i>	3	trophies															4	
ZM	<i>Kobus leche smithemani</i>	2	trophies															1	
ZM	<i>Tragelaphus spekii</i>	3	skulls															1	
ZM	<i>Tragelaphus spekii</i>	3	trophies															5	
ZM	<i>Stigmochelys pardalis</i>	2	live													2450		600	
ZM	<i>Crocodylus niloticus</i>	2	meat															22	
ZM	<i>Crocodylus niloticus</i>	2	meat	kg												13289			
ZM	<i>Crocodylus niloticus</i>	2	skins													672		9279	
ZM	<i>Crocodylus niloticus</i>	2	skins	bellyskins												10709			
ZM	<i>Crocodylus niloticus</i>	2	skins	hornbacks												16638			
ZM	<i>Crocodylus niloticus</i>	2	skin pieces															11004	
ZW	<i>Crocodylus niloticus</i>	2	bodies												37	100	4	17	
ZW	<i>Crocodylus niloticus</i>	2	claws													6			
ZW	<i>Crocodylus niloticus</i>	2	heads														20		
ZW	<i>Crocodylus niloticus</i>	2	live														50		
ZW	<i>Crocodylus niloticus</i>	2	large leather products													10			
ZW	<i>Crocodylus niloticus</i>	2	small leather products																
ZW	<i>Crocodylus niloticus</i>	2	meat	kg							16700	40859	43408	49095	96155	65520	95925	80600	18255
ZW	<i>Crocodylus niloticus</i>	2	skins								10905	41454	7653	10505	35499	27870	27876	686	
ZW	<i>Crocodylus niloticus</i>	2	skins	backskins							3738	200	3393	10689	31683	913	100		4538
ZW	<i>Crocodylus niloticus</i>	2	skins	bellyskins							3645	4947	9659	14613	31177	2870	32		582
ZW	<i>Crocodylus niloticus</i>	2	skins	hornbacks												2291	6	1	
ZW	<i>Crocodylus niloticus</i>	2	skin pieces														7		
ZW	<i>Crocodylus niloticus</i>	2	skulls								100					53	20	8	
ZW	<i>Crocodylus niloticus</i>	2	tails													29	22	14	
ZW	<i>Crocodylus niloticus</i>	2	teeth								500	200				200	9		
ZW	<i>Crocodylus niloticus</i>	2	trophies								1					15	9	2	

**Direct exports of ranched material**

Taxon	App	Term	Country	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
<i>Galanthus woronowii</i>	2	live	GE											15000000				
<i>Galanthus woronowii</i>	2	roots	GE									10000000	10000000					
<i>Dendrobium</i> spp.	2	live	KR				5000											
<i>Oncidium</i> spp.	2	live	KR										600					
<i>Phalaenopsis</i> spp.	2	live	KR				10000											
<i>Armatocereus cartwrightianus</i>	2	live	PE					1										
<i>Astrophytum asterias</i>	1	live	PE					1										
<i>Astrophytum capricorne</i>	2	live	PE					1										
<i>Blossfeldia</i> spp.	2	live	PE				722											
<i>Blossfeldia liliputana</i>	2	live	PE					123										
<i>Browningia</i> spp.	2	live	PE					10										
<i>Cleistocactus</i> spp.	2	live	PE					10										
<i>Cleistocactus sextonianus</i>	2	live	PE					10										
<i>Copiapoa</i> spp.	2	live	PE					11										
<i>Copiapoa calderana</i> ssp. <i>calderana</i>	2	live	PE					60										
<i>Copiapoa cinerea</i>	2	live	PE					78										
<i>Copiapoa cinerea</i> ssp. <i>haseltoniana</i>	2	live	PE					62										
<i>Corryocactus</i> spp.	2	live	PE					4										
<i>Corryocactus brachypetalus</i>	2	live	PE						2									
<i>Corryocactus brevistylus</i> ssp. <i>puquiensis</i>	2	live	PE						6									
<i>Echinopsis</i> spp.	2	live	PE						68									
<i>Echinopsis backebergii</i>	2	live	PE							20								
<i>Echinopsis cephalomacrostibas</i>	2	live	PE							3								
<i>Echinopsis hertrichiana</i>	2	live	PE							20								
<i>Echinopsis maximiliana</i>	2	live	PE							20								
<i>Echinopsis pampana</i>	2	live	PE							5								
<i>Echinopsis tegeleriana</i>	2	live	PE							1								
<i>Epiphyllum phyllanthus</i>	2	live	PE							20								
<i>Eriosyce</i> spp.	2	live	PE							72								
<i>Eriosyce heinrichiana</i>	2	live	PE							10								
<i>Eriosyce heinrichiana</i> ssp. <i>intermedia</i>	2	live	PE							15								
<i>Eriosyce islayensis</i>	2	live	PE							189								
<i>Eriosyce senilis</i>	2	live	PE							20								
<i>Ferocactus latispinus</i>	2	live	PE							1								













Taxon	App	Term	Country	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
<i>Odontoglossum</i> spp.	2	live	PE				56											
<i>Odontoglossum angustatum</i>	2	live	PE					12										
<i>Odontoglossum cirrhosum</i>	2	live	PE					30										
<i>Odontoglossum crinitum</i>	2	live	PE					50										
<i>Odontoglossum cruentum</i>	2	live	PE					40										
<i>Odontoglossum harryanum</i>	2	live	PE				108											
<i>Odontoglossum microthyrsus</i>	2	live	PE					42										
<i>Odontoglossum pardinum</i>	2	live	PE					115										
<i>Odontoglossum praestans</i>	2	live	PE					30										
<i>Odontoglossum trilobum</i>	2	live	PE					20										
<i>Oncidium</i> spp.	2	live	PE					115										
<i>Oncidium abortivum</i>	2	live	PE						49									
<i>Oncidium acinaceum</i>	2	live	PE						20									
<i>Oncidium cordatum</i>	2	live	PE						25									
<i>Oncidium cryptocoris</i>	2	live	PE						15									
<i>Oncidium excavatum</i>	2	live	PE						20									
<i>Oncidium falcipetalum</i>	2	live	PE						27									
<i>Oncidium foveatum</i>	2	live	PE						50									
<i>Oncidium fuscatum</i>	2	live	PE						40									
<i>Oncidium globuliferum</i>	2	live	PE						10									
<i>Oncidium heteranthum</i>	2	live	PE						23									
<i>Oncidium incarum</i>	2	live	PE						35									
<i>Oncidium lanceanum</i>	2	live	PE							5								
<i>Oncidium leopoldianum</i>	2	live	PE							40								
<i>Oncidium nanum</i>	2	live	PE							44								
<i>Oncidium nubigenum</i>	2	live	PE							48								
<i>Oncidium onustum</i>	2	live	PE							231								
<i>Oncidium ototmeton</i>	2	live	PE							83								
<i>Oncidium retusum</i>	2	live	PE							97								
<i>Oncidium sanderae</i>	2	live	PE							148								
<i>Oncidium spilopterum</i>	2	live	PE							31								
<i>Oncidium tigrinum</i>	2	live	PE							50								
<i>Oncidium versteegianum</i>	2	live	PE								1							
<i>Oncidium volubile</i>	2	live	PE							97								
<i>Ornithocephalus gladiatus</i>	2	live	PE								70							
<i>Ornithocephalus kruegeri</i>	2	live	PE								202							
<i>Peristeria pendula</i>	2	live	PE								75							
<i>Plectrophora</i> spp.	2	live	PE								2							
<i>Plectrophora cultrifolia</i>	2	live	PE								161							



Taxon	App	Term	Country	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
<i>Trichocentrum tigrinum</i>	2	live	PE				330											
<i>Trichoceros spp.</i>	2	live	PE					6										
<i>Trichoceros antennifer</i>	2	live	PE					13										
<i>Trichoceros tupaipi</i>	2	live	PE					51										
<i>Trichopilia spp.</i>	2	live	PE					118										
<i>Trichopilia fragrans</i>	2	live	PE					106										
<i>Trichopilia gracilis</i>	2	live	PE					30										
<i>Trichopilia laxa</i>	2	live	PE					1098										
<i>Trichopilia peruviana</i>	2	live	PE					2010										
<i>Trisetella spp.</i>	2	live	PE					247										
<i>Warreella cyanea</i>	2	live	PE					6										
<i>Xylobium colleyi</i>	2	live	PE					55										
<i>Xylobium elongatum</i>	2	live	PE					10										
<i>Xylobium foveatum</i>	2	live	PE					10										
<i>Xylobium pallidiflorum</i>	2	live	PE					10										
<i>Zygopetalum intermedium</i>	2	live	PE					47										
<i>Dendrobium spp.</i>	2	specimens	PG									100						
<i>Dendrobium discolor</i>	2	specimens	PG									100						
<i>Dendrobium rigidum</i>	2	specimens	PG									5						
<i>Vanda hindsii</i>	2	specimens	PG									10						