

The role of the Netherlands in the

REPTILE TRADE

Jordi Janssen & Boyd T.C. Leupen



monitor

CONSERVATION RESEARCH SOCIETY

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ACRONYMS AND ABBREVIATIONS

| | |
|-------|--|
| CITES | Convention on International Trade in Endangered Species of Wild Fauna and Flora |
| EC | European Commission |
| EU | European Union |
| GWWD | Health and Welfare of Animals Act (Gezondheids- en welzijnswet voor dieren) |
| IUCN | International Union for Conservation of Nature |
| LEMIS | Law Enforcement Management Information System |
| LNV | Ministry of Agriculture, Nature and Food Quality (Ministerie van Landbouw, Natuur en Voedselkwaliteit) |
| n | number |
| NVWA | Netherlands Food and Consumer Product Safety Authority (Nederlandse Voedsel- en Warenautoriteit) |
| RVO | Netherlands Enterprise Agency (Rijksdienst voor Ondernemend Nederland) |
| UNEP | United Nations Environment Programme |
| USFWS | United States Fish and Wildlife Service |
| WCMC | World Conservation Monitoring Centre |
| Wob | Public Access to Government Information Act (Wet openbaarheid van bestuur) |

ACKNOWLEDGEMENTS

World Wildlife Fund Netherlands (WNF) is thanked for generously funding and supporting this study. The authors would like to thank Elke van Gils and Christiaan van der Hoeven of WNF and Chris R. Shepherd and Lalita Gomez of Monitor for constructive and useful feedback on earlier drafts of this report.



EU Wildlife Trade Regulations currently do not prohibit the trade in species that enjoy a protected status in their countries of origin.

Consumers need to be more aware of such issues, but it is unrealistic to expect a change in mindset and behaviour when they are not provided with accurate and relevant information.

EXECUTIVE SUMMARY

The Netherlands has been considered an important player in the international reptile trade and is home to several well-established large reptile fairs, including the quarterly Terraria Expo and the annual “Snake Day” in Houten, which attract visitors from around the world. Within the European Union (EU), the Netherlands is known to function as both a destination and a transit country in the international wildlife trade.

The Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) data nevertheless show that the Netherlands does not rank among the top three traders when it comes to the export and import of CITES-listed reptiles in a European context. The country ranks 6th in terms of export and 8th in terms of import. Our data does show that the Netherlands is a more important player in terms of non-CITES species (6th importer in the EU) but considering the country’s lower ranking in terms of monetary value of these imports (8th), it seems that this mostly comprises cheaper, and likely more commonly kept, species.

Some of the species found to have been traded from and within the Netherlands have no legal import records, are prohibited in the EU, or are subject to export-bans in their countries of origin. According to data of the Netherlands Enterprise Agency, a total of 3074 live reptiles were seized between 2004 and 2017, 1443 of which were confiscated because of a violation of the Netherlands’ Flora and Fauna or Nature Protection Act. The Netherlands’ role in the international reptile trade is inseparably linked to that of the EU. Due to the EU Single Market, which allows goods to be moved freely among EU Member States, trade analysis on a national level is complicated. Moreover, the EU Single Market facilitates the internal EU trade in illegal and illegally acquired species and poses significant challenges to law enforcement. EU Wildlife Trade Regulations currently do not prohibit the trade in species that enjoy a protected status in their countries of origin.

The issues discussed in this report are well-known, but very difficult to tackle. Many require both legislative change and conscious efforts from consumers to ensure their animals are legally and responsibly acquired. Personal observations learn that many reptile keepers assume that animals for sale in the Netherlands or other EU countries are of legal origin. Many are unaware of the fact that some species may be protected in their range states or may have been brought into the EU illegally using false-paperwork. Consumers need to be more aware of such issues, but it is unrealistic to expect a change in mindset and behaviour when they are not provided with accurate and relevant information. Providing consumers with the necessary information would increase general awareness and enable reptile enthusiasts to check the legality and the conservation impact of their potential purchases.

1. INTRODUCTION

Rare and/or newly-described species are especially in demand as their exclusivity makes them highly desirable for private collectors.



Illegal trade is one of the main drivers behind over-harvesting and has already resulted in serious population declines in several reptile species

Reptiles are among the most heavily exploited animals in the world (Nijman 2010). Turtles, tortoises, snakes and lizards are sourced for food, clothing, medicinal purposes and for the global trade in pets. Not all this trade is legal or sustainable (Nijman and Shepherd 2010, Nijman et al. 2012a, Nijman et al. 2012b, Auliya et al. 2016a, Janssen and Blanken 2016). Reptiles fetch high prices on the black market and are relatively easy to conceal and transport, making them ideal targets for wildlife traffickers (Altherr 2014). Illegal trade is one of the main drivers behind over-harvesting and has already resulted in serious population declines in several reptile species (Shepherd and Ibarrondo 2005, Nijman and Shepherd 2009). Rare and/or newly-described species are especially in demand as their exclusivity makes them highly desirable for private collectors. Yet, the high value attached to such rare species fuels over-exploitation, making the species even rarer and increasing their desirability, forcing species into an extinction vortex (Courchamp et al. 2006). However, as they are often endemic, occur in limited areas and have small populations, they are particularly vulnerable to over-exploitation (Hall et al. 2008, Lyons and Natusch 2013, Altherr 2014, Meiri et al. 2018). Some species such as the Roti Island Snake-necked Turtle *Chelodina mccordi* and Borneo's Earless Monitor Lizard *Lanthanotus borneensis* have already suffered the consequences of illegal harvesting practices (Shepherd and Ibarrondo 2005, Nijman and Stoner 2014) and more are likely to follow.

The European Union (EU) constitutes one of the largest and most diverse markets for wildlife in the world (Auliya 2003, Theile et al. 2004, Engler et al. 2007, O'Críodain 2007, Janssen and Blanken 2016). With a booming pet trade, it is also one of the largest markets for live reptiles (Auliya 2003, Auliya et al. 2016b, Crook and Musing 2016). Large annual

reptile fairs are held in several EU member states (in Barcelona, Spain; Hamm, Germany; Houten, the Netherlands; Longorane, Italy; and Prague, Czech Republic) and function as meeting points and trade hubs for sellers and buyers from around the globe (Altherr 2016). In addition to being the world's second largest importer of live reptiles (Robinson et al. 2015), the EU is considered the largest market for illegally-caught reptiles (Nijman and Shepherd 2009, Nelsen 2015, Altherr 2016, Auliya et al. 2016a). Private collectors in the EU often target species protected in their range states despite or because of their often-weak conservation status (van Krevelt 2007, Altherr 2014, 2016, Janssen and Blanken 2016). Many of these species are either nationally protected in their country of origin with their export being prohibited or may only be traded if bred in captivity. This results in such species being relatively rare in trade and in high demand by collectors (Altherr 2014, 2016). These species are either imported or smuggled into the EU, after which they are bred and sold for high profits (Vinke and Vinke 2015). Several EU smugglers and traders are known to be key players in the international reptile trade (Interpol 1996, Altherr 2016). However, the actual size of reptile markets is often unknown, as trade in reptiles is often only documented when it includes species listed in the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) (Janssen and Shepherd 2018, Jensen et al. 2018).

In addition to being the world's second largest importer of live reptiles, the EU is considered the largest market for illegally-caught reptiles

The EU is increasingly aware of its role in the international wildlife trade, including the reptile trade (Altherr, 2014) and has suspended the import of – and trade in – several endangered foreign (reptile) species (Janssen and Blanken 2016, UNEP 2016). In 2016, the European Commission adopted the EU Action Plan Against Wildlife Trafficking, which details the EU approach for joined efforts to combat wildlife crime within the EU and strengthening the EU's role in combatting such crime.

Within the EU, the Netherlands is known to function as both a destination and a transit country in the international wildlife trade (Engler and Parry-Jones 2007, van Krevelt 2007, Janssen and Blanken 2016). The country is home to Europe's largest port (Rotterdam), making it a logistically attractive location for international wildlife traders (Van Uhm 2009, Netherlands 2014, Pieters 2016). Besides acting as a gateway to other European countries such as Germany and Czech Republic, the Netherlands has a flourishing domestic reptile market as well. The country's annual 'Slangendag', meaning 'Snake day', is among the most important reptile events in Europe and is often quoted as the largest snake only reptile fair in the world (Janssen and Blanken, 2016). Such fairs are visited by reptile keepers and traders from all over the world, often export large quantities back to other reptile markets like the United States or Japan. However, the true size of the reptile market in the Netherlands is poorly documented. This report aims to quantify the role of the NL within the global reptile trade. It aims to establish a preliminary assessment of the scale of the trade that occurs in and through the country and address several legislative and enforcement challenges currently facing the Netherlands and the EU as a whole.

2. LEGISLATION

Weak national enforcement can seriously hinder EU-wide efforts to regulate the trade in wildlife...



2.1 The European Union

The EU implements the EU Wildlife Trade Regulations through Council Regulation (EC) No.338/97 implementing the provisions of the (European Commission 2015, European Commission and Traffic 2015). All EU Member states have individually ratified CITES. In addition, the EU, as an entity, ratified CITES in 2015. EU Wildlife Trade Regulations, list species on EU Annex A, B, C and D, and are stricter than required under the Convention; EU Annex A includes species listed in CITES Appendix I, some species listed in CITES Appendix II and III and some non-CITES species. Annex B includes all other CITES Appendix II species, some CITES Appendix III species and some non-CITES species. Annex C includes all other CITES Appendix III species. EU Annex D includes some Appendix III species for which the EU holds a reservation and some non-CITES species for which the EU has decided additional monitoring is required.

The implementation of the EU Wildlife Trade Regulations and external border control is the responsibility of the EU's individual Member States. Weak national enforcement can therefore seriously hinder EU-wide efforts to regulate the trade in wildlife (Engler et al. 2007, Theile et al. 2004). The uneven and often insufficient implementation and enforcement of the EU Wildlife Trade Regulations across individual Member States can be considered a major impediment to the tackling of illegal wildlife trade. In 2016, the European Commission adopted the EU Action Plan Against Wildlife Trafficking, in order to strengthen the EU's efforts to combat illegal wildlife trade. The action plan focuses on three areas:

1. **increased enforcement through closer EU-collaboration,**
2. **more effective prevention through demand and supply reduction and**
3. **strengthening of co-operation with range States.**

EC.No. **338/97**

2.2 The Netherlands

The Netherlands ratified CITES in April 1984, which entered into force in July 1984. The Ministry of Agriculture, Nature and Food Quality (LNV) functions as the CITES Management Authority of the Netherlands and is responsible for the effective implementation of CITES. Required permits under CITES and EU legislation are issued by the Netherlands Enterprise Agency (RVO) (Van Uhm 2009, RVO 2016, van Uhm 2016).

3. METHODS

**...the Netherlands
is obligated to
report import
numbers, including
for species for
which no import
permit is required**



3.1 Online Survey

On international platforms, advertisements placed by Dutch nationals were collected, regardless of the language that was used in the post.

A 21-day survey of Dutch online trading platforms was conducted between 20 August and 10 September 2018. This research period was chosen because it roughly coincided with several large reptile fairs, including Terraristika Hamm in Germany (8 September) and Houten Reptile Expo in the Netherlands (23 September). In the weeks leading up to such events online reptile trade activity typically increases. This allowed the researchers to make a more accurate assessment of the number of different species that can be found on the Dutch market. Advertisements were collected on one Dutch online trading platform (Marktplaats.nl), one international reptile website (Terraristik.com) and one social media platform (Facebook.com). Across these platforms, all advertisements posted in the Dutch language were considered to targeting the Dutch market, regardless of the nationality of the seller, and were therefore included in this study’s dataset. On international platforms, advertisements placed by Dutch nationals were collected, regardless of the language that was used in the post. Additionally, advertisements on Facebook, placed by foreign nationals but stating that the animals on sale could be delivered in the Netherlands, were included. Surveys of the abovementioned platforms were conducted twice per week. Screenshots of all relevant advertisements were taken. For each relevant advertisement, the following data was collected:

- 1. species offered for sale,
- 2. advertised quantities,
- 3. advertised prices (if available), and
- 4. any information regarding the origin of the animal(s).

Duplicate advertisements were discarded. In cases where no quantity was given, a minimum quantity of one animal was assumed. In cases where multiple animals were said to be available, without any specific numbers being mentioned, a minimum quantity of two animals were assumed. In addition to the online surveys, the product lists of two online reptile shops were recorded. These two shops were chosen as they updated their stocklist within the research period, providing a recent and up to date overview of their stocklist.

3.2 Trade Data Analysis

3.2.1 CITES

Dutch import and export records for live reptiles (trade terms ‘Live’ [LIV]) were extracted from the UNEP-WCMC CITES Trade Database for the period between 1 January 2000 and 31 December 2017. The UNEP-WCMC CITES Trade Database holds all international trade records of CITES-listed species. Only entries with the purpose codes relevant to commercial trade (Commercial [‘T’] and Personal [‘P’]) were included in our analysis. The use of the UNEP-WCMC CITES Trade Database for analytical purposes has often been a subject of debate, as reported trade levels may differ significantly per country. While trade should be reported based on actual imported or exported quantities (CITES Notification 2017/006), many countries report trade based on permits issued (Robinson and Sinovas 2018). This hinders an accurate depiction of actual trade levels in two ways:

- 1. not all animals for which an export permit has been granted are subsequently exported, leading to an overestimation of export levels;
- 2. not all species (including most CITES Appendix II species) require import permits, leading to an underestimation of import levels.

In this study, we have chosen to base our analysis on trade levels as reported by the Netherlands. As the Netherlands is obligated to report import numbers, including for species for which no import permit is required, importer-reported quantities are likely more accurate than using exporter-reported quantities. For the export we looked at exporter-reported quantities as not all CITES parties are obligated to issue import permits, therefore the exporter-reported data could represent an overestimation rather than an underestimation of actual trade levels.

3.2.2 Non-CITES

For European countries, the UNEP-WCMC CITES Trade Database also includes entries concerning non-CITES species that are listed in one of the EU Wildlife Trade Regulations’ Annexes (A, B, C or D). Across the Annexes, the Regulations adopt stricter import requirements than CITES, with import permits needed for species listed in Annex A and B, and import notifications required for species listed in Annex C and D (Commission Regulation (EC) 865/96). (Re-)Export permits and certificate are required for all listed species except those listed in Annex D. Data was also collected from EUROSTAT (available at <https://ec.europa.eu/eurostat/data/database>) for commodity group number 0106 20 00 (live reptiles). From this platform, we collected the total number of live reptiles imported for each European country, and their reported value (in Euros [EUR]).

3.3 LEMIS Data Analysis

Under the United States (US) Lacey Act, import of any wildlife in violation of foreign legislation (§3372, a2A) is prohibited. To investigate the potential role of the Netherlands in exporting protected species to the US, import data for the US was obtained from the US Fish and Wildlife Service's (USFWS) Law Enforcement Management Information System (LEMIS), for the period between 1 January 2000 and 31 December 2014. LEMIS specifies the content of each imported shipment with either a species code, a genus code or a more general code (e. g. NONR= Non-CITES reptile), with the latter being more common in larger shipments (Schlaepfer et al. 2005). As LEMIS contains trade data concerning non-CITES species, including Annex D species (for which no (re-)export records are kept in the EU), its inclusion in our analysis enables a more detailed overview of live reptile exports from the Netherlands.

...its inclusion in our analysis enables a more detailed overview of live reptile exports from the Netherlands.

Under the United States (US) Lacey Act, import of any wildlife in violation of foreign legislation (§3372, a2A) is prohibited.

3.4 Seizure Data

To obtain additional information regarding

1. reptile seizures and

2. seized animals coming from the Netherlands

Freedom of Information Act and Wet Openbaarheid van Bestuur (Wob)-requests were sent to the USFWS and both the RVO (request: Wob/2018/157) and the Netherlands Food and Consumer Product Safety Authority (NVWA) respectively. USFWS responded that no live reptiles were seized coming from the Netherlands. Live reptile seizure data for the period between 2004 and 2017 was received from the RVO on 2 January 2019. The dataset contained all seizures of live reptiles within the Netherlands, with the exception of cases that are part of ongoing criminal investigation (Article 2, paragraph 2C of Wob). It did not include information pertaining to the origin of the seized shipments. As part of the document was redacted, the total number of live reptiles seized is likely to be higher than reported here. The data was received in two different formats for two different time periods (2004-2015 and 2016-2017), owing to a system change in 2016. Although each format had slightly different output fields, data from both formats was merged as much as possible. Correct scientific names were added in cases where only common names were given. Terminology with regards to the final destination of the animals was homogenised between both documents, e. g. 'schenken' was considered to correspond to 'herplaatst'.

Circular graphs were made with Circos Table Viewer v0.63-9 <http://mkweb.bcgsc.ca/tableviewer/>. All used country codes are listed in Annex VI.

4. RESULTS

According to the
UNEP-WCMC CITES
Trade Database,
the Netherlands
reported the import
of 188 015 live
reptiles...



4.1 The Netherlands as an importing country

4.1.1 CITES Trade Database

According to the UNEP-WCMC CITES Trade Database, the Netherlands reported the import of 188 015 live reptiles under purpose codes ‘T’ and ‘P’, totalling 154 taxa, between 1 January 2000 and 31 December 2017. (see Annex I). Most of the specimens (n=187 974; 99.9%) were exported under purpose code ‘T’, with only 41 specimens (7 taxa) imported under code ‘P’.

Almost all live reptiles (99.69%, n=187 431) imported into the Netherlands were listed in CITES Appendix II, while none were listed in CITES Appendix I (Table 1). Iguanidae was the most frequently imported reptile family (24.09%, n=44 819), closely followed by Testudinidae (22.23%, n=41 712), Chamaeleonidae (14.17%, n=26 945) and Pythonidae (12.98%, n=24 152) (Table 2). All imported iguanas were Green Iguanas *Iguana iguana*, making it the most frequently imported species of this study, followed by Leopard Tortoises *Stigmochelys pardalis* (11.97%, n=22 478) and Ball Pythons *Python regius* (11.06%, n=20 508) (Table 2).

Iguanidae was the most frequently imported reptile family

Table 1. NUMBER OF CITES-LISTED AND NON-CITES (EU ANNEX-LISTED) LIVE REPTILES IMPORTED INTO THE NETHERLANDS BETWEEN 1 JANUARY 2000 AND 31 DECEMBER 2017.

| CITES status | Number | % |
|--------------|----------------|-------|
| Appendix I | 0 | 0 |
| Appendix II | 187 431 | 99.69 |
| Appendix III | 110 | 0.06 |
| Non-CITES | 474 | 0.25 |
| Total | 188 015 | |

Table 2. NUMBER OF CITES-LISTED LIVE REPTILES IMPORTED INTO THE NETHERLANDS BETWEEN 1 JANUARY 2000 AND 31 DECEMBER 2017 SEPARATED PER FAMILY. ON THE RIGHT ARE THE 10-REPTILE SPECIES WITH THE HIGHEST EXPORT NUMBERS.

| Family | Number | % | Species | Number | % |
|----------------|----------------|-----|-------------------------------------|--------|-----|
| Agamidae | 10153 | 5% | <i>Iguana iguana</i> | 44819 | 24% |
| Alligatoridae | 8156 | 4% | <i>Stigmochelys pardalis</i> | 22478 | 12% |
| Boidae | 7734 | 4% | <i>Python regius</i> | 20508 | 11% |
| Chamaeleonidae | 26945 | 14% | <i>Testudo horsfieldii</i> | 9992 | 5% |
| Colubridae | 95 | 0% | <i>Uromastyx ocellata</i> | 7745 | 4% |
| Cordylidae | 2827 | 2% | <i>Caiman crocodilus crocodilus</i> | 5251 | 3% |
| Elapidae | 42 | 0% | <i>Chelonoidis carbonarius</i> | 4716 | 3% |
| Emydidae | 2 | 0% | <i>Boa constrictor</i> | 3926 | 2% |
| Gekkonidae | 11513 | 6% | <i>Varanus exanthematicus</i> | 3528 | 2% |
| Geoemydidae | 300 | 0% | <i>Phelsuma laticauda</i> | 3052 | 2% |
| Helodermatidae | 44 | 0% | | | |
| Iguanidae | 44819 | 24% | | | |
| Pelomedusidae | 110 | 0% | | | |
| Podocnemididae | 100 | 0% | | | |
| Pythonidae | 24152 | 13% | | | |
| Scincidae | 89 | 0% | | | |
| Teiidae | 2227 | 1% | | | |
| Testudinidae | 41712 | 22% | | | |
| Trionychidae | 6 | 0% | | | |
| Varanidae | 6980 | 4% | | | |
| Xenopeltidae | 9 | 0% | | | |
| Total | 188 015 | | | | |

24%

4.1.1.1 Origin

The majority of imported live reptiles was declared as wild-caught (41.89%, n=77 788). The most commonly reported wild-caught species were the Ocellated Mastigure *Uromastyx ocellata* (4.14%, n=7745), the Spectacled Caiman *Caiman crocodilus* (2.86%, n=5251) and the Green Iguana (2.03%, n=3732). A total of 33.55% (n=63 080) of imported reptiles were reportedly bred in captivity, with the Green Iguana accounting for 66% (n=41 086) of all specimens declared as captive-bred. ‘Captive-bred’ refers to animals bred in accordance with CITES

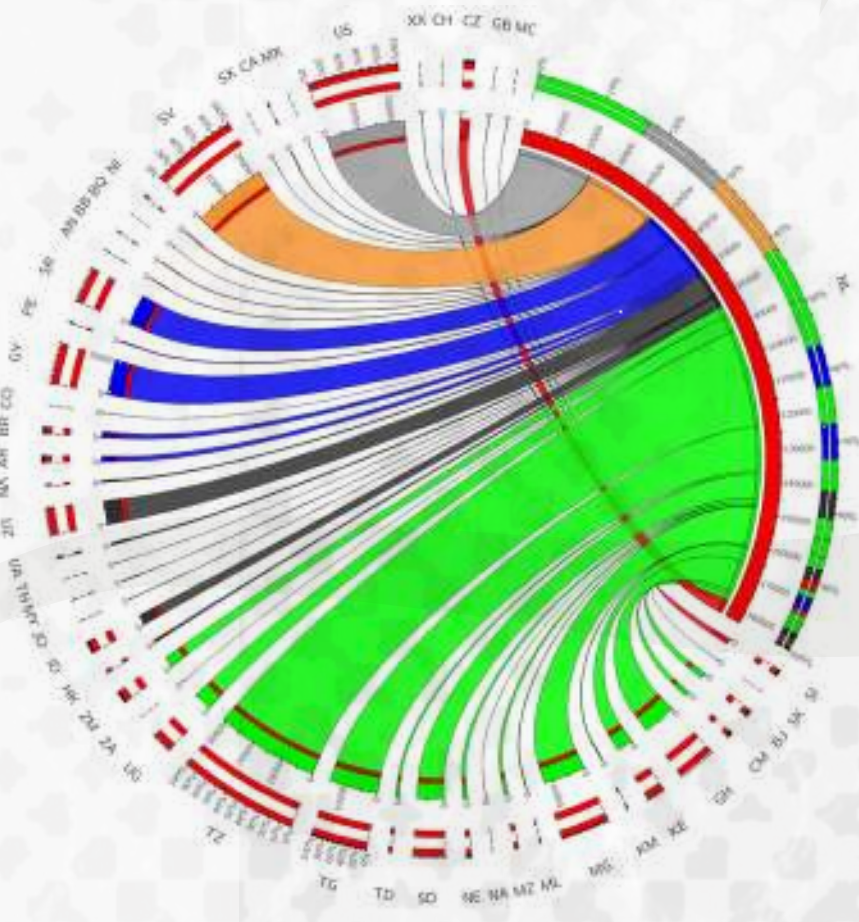
Resolution Conf. 10.16 Rev., meaning that they are at least second-generation (F2) offspring born in a controlled environment. Animals ‘born in captivity’ (representing first generation offspring (F1) or animals not bred in accordance with CITES Resolution Conf. 10.16 Rev.) comprised 9.24% (n=17 376) of. About 15.30% (n=28 764) of all imported reptiles were declared as ‘ranché’, meaning they were taken from the wild as eggs or juveniles and subsequently reared in a controlled environment.

4.1.1.2 Trade routes

During the research period, live reptiles were imported into the Netherlands from 47 different countries. However, only a small group of countries were found to be behind the bulk of global reptile exports to the Netherlands. Tanzania was found to have been the main exporter to the Netherlands, accounting for 16.46% of all imported live reptiles (n=30 949), followed by the United States (12.53%, n=23 556), El Salvador (12.12%, n=22 794) and Togo (7.68%, n=14 439). More than half of the Netherlands’ reptile imports originated from the African continent (52.37%, n=98 463)

(Figure 1). Together, Tanzania, Togo, Ghana and Madagascar accounted for more than 70% (n=69 212) of all reptiles exported from Africa to the Netherlands. North America exported the second largest total number of live reptiles to the Netherlands (12.92%, n=23 729). Of the Asian countries, Uzbekistan was found to have exported the most live CITES-listed reptiles to the Netherlands (3.99%, n=7500, all comprising Horsfield’s Tortoises *Testudo horsfieldii*). For South America, Guyana (5.62%, n= 10 570) and Suriname (4.92%, n=9254) were found to be the most important exporting countries.

Figure 1. IMPORT OF LIVE CITES-LISTED REPTILES (SOURCE CODES ‘T’ AND ‘P’) TO THE NETHERLANDS. EACH COLOUR REPRESENTS A CONTINENT, AFRICA (GREEN), EUROPE (RED), ASIA (DARK GREY), SOUTH AMERICA (BLUE), CENTRAL AMERICA (ORANGE) AND NORTH AMERICA (LIGHT GREY). SEE ANNEX VI FOR COUNTRY CODES.



4.2 The Netherlands as an exporting country

4.2.1 CITES Trade Database

Between 1 January 2000 and 31 December 2017, the Netherlands reported the export of 9917 live reptiles under purpose codes ‘T’ and ‘P’, totalling 97 taxa (see Annex II). Most of the specimens (98.9%, n=9808) were exported under purpose code ‘T’, with only 109

specimens (16 taxa) exported under purpose code ‘P’. According to the UNEP-WCMC CITES Trade Database, nearly all exported live reptiles (99.6%, 9881 specimens) were listed in Appendix II, with only 26 specimens listed in CITES Appendix I (Table 3).

Table 3. NUMBER OF CITES-LISTED AND NON-CITES LIVE REPTILES EXPORTED FROM THE NETHERLANDS BETWEEN 1 JANUARY 2000 AND 31 DECEMBER 2017.

| CITES status | Number | % |
|--------------|--------|------|
| Appendix I | 26 | 0.26 |
| Appendix II | 9881 | 99.6 |
| Appendix III | 2 | 0.02 |
| Non-CITES | 8 | 0.08 |
| Total | 9917 | |

...live reptiles were imported into the Netherlands from 47 different countries.

Table 4. NUMBER OF CITES-LISTED LIVE REPTILES EXPORTED BY THE NETHERLANDS BETWEEN 1 JANUARY 2000 AND 31 DECEMBER 2017 SEPARATED PER FAMILY. ON THE RIGHT ARE THE 10-REPTILE SPECIES WITH THE HIGHEST EXPORT NUMBERS.

| Family | Number | % | Species | Number | % |
|----------------|--------|------|-----------------------------|--------|-----|
| Agamidae | 267 | 3% | <i>Python regius</i> | 2729 | 28% |
| Alligatoridae | 79 | 1% | <i>Chamaeleo calytratus</i> | 2405 | 24% |
| Boidae | 266 | 3% | <i>Testudo horsfieldii</i> | 1221 | 12% |
| Chamaeleonidae | 2856 | 29% | <i>Phelsuma ornata</i> | 370 | 4% |
| Cheloniidae | 1 | 0% | <i>Phelsuma cepedianana</i> | 319 | 3% |
| Colubridae | 41 | 0% | <i>Phelsuma guimbeaui</i> | 296 | 3% |
| Cordylidae | 9 | 0% | <i>Boa constrictor</i> | 193 | 2% |
| Crocodylidae | | 0% | <i>Uromastix tamsi</i> | 160 | 2% |
| Elapidae | 10 | 0% | <i>Python bivittatus</i> | 159 | 2% |
| Emydidae | 194 | 2% | <i>Terrapene carolina</i> | 147 | 1% |
| Gekkonidae | 1065 | 11% | | | |
| Geoemydidae | 22 | 0% | | | |
| Iguanidae | 3 | 0% | | | |
| Pelomedusidae | 2 | 0% | | | |
| Pythonidae | 3153 | 32% | | | |
| Teiidae | 81 | 1% | | | |
| Testudinidae | 1541 | 16% | | | |
| Varanidae | 279 | 3% | | | |
| Viperidae | 7 | 0% | | | |
| Xenosauridae | 41 | 0% | | | |
| Total | 9917 | 100% | | | |



Python regius
28%

Chamaeleo calytratus
24%

Testudo horsfieldii
12%

Pythonidae was the most frequently exported reptile family

Pythonidae was the most frequently exported reptile family (31.79%, n=3153), followed by Chamaeleonidae (28.8%, n=2856), Testudinidae (15.54%, n=1541) and Gekkonidae (10.74%, n=1065 specimens) (Table 4). Together, these four families accounted for 86.87% of live reptiles exported from the Netherlands. The most frequently exported species was the Ball Python (27.52%,

n=2729), followed by Veiled Chameleon *Chamaeleo calytratus* (24.25%, n=2405 specimens) and Horsfield’s Tortoise (12.31%, n=1221) (Table 4). Notably, Eight Red-eared Sliders *Trachemys scripta elegans* were exported from the Netherlands during the study period, during which this species was listed in EU Annex B (Council Reg. (EC) No 338/97 since 9 December 1996).

4.2.1.1 Origin

The majority of exported live reptiles in the CITES Trade Database (73.84%, n=7323) was claimed to have been bred in captivity. Only 13.47% (n=1336) was marked as wild-caught. This mainly comprised animals exported in 2012 (n=950) and 2016 (n=355). Horsfield’s Tortoise accounted for 91.24% (n=1219) of all wild-caught specimens. Of the exported Horsfield’s Tortoises, all but three specimens were reportedly wild-caught.

...33.55% of imported reptiles were reportedly bred in captivity

Figure 2. EXPORT OF LIVE REPTILES FROM THE NETHERLANDS OVER THE PERIOD 2000-2017 WITH THEIR RESPECTIVE SOURCE CODES. SOURCE CODES: C= BRED CAPTIVITY, F=BORN IN CAPTIVITY, I = CONFISCATED OR SEIZED, O= PRE-CONVENTION, R= RANCHED ANIMAL, U= UNKNOWN, W= WILD.

Asian countries and territories imported more live reptiles than the United States, indicating that Asia is an important destination for reptiles from the Netherlands.

4.2.1.2 Trade routes

According to the CITES Trade Database, the Netherlands exported live reptiles to 25 different countries during the research period. However, the bulk of these exports were destined for a relatively small group of countries (Figure 3). The US was the main importer of live reptiles from the Netherlands (44.69%, n=4432), followed by Asian destinations such as Hong Kong SAR (29.18%, n=2894), South Korea (7.94%, n=787), Japan (6.77%, n=671) and Taiwan (4.19%, n=416). Together, these Asian countries and territories imported more live reptiles than the United States, indicating that Asia is an important destination for reptiles from the Netherlands.

A total of 69.24% (n=6869) of all live reptiles exported from the Netherlands had a different country marked as the origin (Figure 3). Most specimens that we re-exported by the Netherlands originated from Czech Republic (27.83%, n=2760), Uzbekistan (12.29%, n=1219), Togo (10.12%, n=1004) and Germany (7.12%, n=706). The Netherlands role as a transit country for live reptiles is further supported by the fact that frequent importing countries are not among the most frequently named countries or origin. Most live reptiles appear to be traded from Europe, Africa and Uzbekistan to the United States and Asia via the Netherlands.



Figure 3. EXPORT OF LIVE CITES-LISTED REPTILES FROM THE NETHERLANDS. TRADE BETWEEN NETHERLANDS AND IMPORTING COUNTRIES IN BLACK, COUNTRIES LISTED AS THE ORIGIN OF LIVE REPTILES EXPORTED FROM THE NETHERLANDS ARE DISPLAYED IN RED.



4.2.2 LEMIS

According to LEMIS, the Netherlands exported 13 249 live reptiles to the US between 1 January 2000 and 31 December 2014 (see Annex III). Most of these (97.25%, n=12 888) were identified to the genus or species level. A total of 361 specimens were not identified and were marked with the general code for Non-CITES Reptiles (NONR). The Netherlands exported 100 different taxa to the USA, 36 of which were listed in one of the CITES Appendices. The majority of the CITES-listed species were listed in Appendix II (91.66%, n=33), while the rest was listed in Appendix I (8.33%, n=3). Non-CITES reptiles accounted for 64 taxa, totalling 7843 specimens, which constituted 59.20% of all reptiles exported from the Netherlands to the US. Four of the non-CITES species are currently classified as Endangered on the IUCN Red List of Threatened Species (hereafter referred to as the IUCN Red List).

With 4097 recorded specimens, the Central Bearded Dragon *Pogona vitticeps* was the most abundant non-CITES species that was exported from the Netherlands to the US. This was followed by the Corn Snake *Pantherophis guttatus* (n=1123) and

Western Hognose Snake *Heterodon nasicus* (n=454), both of which are native to the US. Remarkably, the majority of imported Western Hognose Snakes (85.02%, n=386) were marked as wild-caught. Wild-caught animals of another US species; the native Black-tailed Rattlesnake *Crotalus molossus*, were also reportedly exported from the Netherlands. The export of US native species to the US is of interest as the import of native snakes from non-range states raises questions. However, seeing how both species are commonly kept in captivity and bred in a wide variety of colour morphs, it is possible that the imported animals were bred in captivity and belonged to a certain colour morph. While this could have been an administrative error, and both species also occur in other North American countries (e. g. Mexico), the import of these species from the Netherlands raises questions concerning the true origin of these animals.

Four of the non-CITES species are currently classified as Endangered on the IUCN Red List of Threatened Species

4.3 Online Survey

During the 22-day period between 20 August and 10 September 2018, 1260 advertisements, accounting for a total of 4663 reptiles of 346 different taxa, were counted across the monitored online platforms (see Annex IV). Of these 4663 animals, 31 could not be identified past the genus level, and four animals were hybrids. Most advertisements were found on Marktplaats.nl (n=785), followed by Facebook (n=364) and Terraristik.com (n=111). In terms of trade volumes, Facebook takes the lead, accounting for 42% of all reptiles found advertised online (n=1979) and only slightly surpassing Marktplaats.nl, with 1901 animals (41%). Terraristik accounted for 599 advertised animals (13%) while the two reptile web shops contained advertisements for a total of 184 (3.95%) animals. Marktplaats.nl advertisements contained the largest diversity of taxa (n=154), followed by Facebook with 148 taxa, Terraristik.com with 127 taxa and the reptile web shops with a total of 33 taxa. Across the online platforms, private sellers were responsible for the advertisement of 270 taxa, involving 3948 reptiles, while reptile shops advertised 102 taxa, accounting for only 713 animals (15% of total).

The Ball Python was found to be the most commonly advertised reptile with 1069 specimens (22.65%), followed by the Corn Snake (7.22%, n=341) and the Crested Gecko *Correlophus ciliatus* (3.96%, n=187). In general, quantities per species were low; for 266 out of 346 taxa encountered total volumes remained under 10. For 75 of these taxa, only one animal was counted.

Prices were collected for 2198 animals and ranged from 5 EUR (for juvenile Corn Snakes) to 2000 EUR (for juvenile Bearded Lizards *Heloderma h. horridum*). The total advertised value of the online trade amounted to 301 377 EUR. The total advertised value per platform followed similar percentages as the number of animals observed per platform. Facebook accounted for 45% of the total quoted value (138 379 EUR), followed by Marktplaats.nl (41%, 124 213 EUR) and Terraristik.com (13%, 38 665 EUR).



Python regius
22.65%

Pantherophis guttatus
7.22%

Correlophus ciliatus
3.96%

4.3.1 Origin

For 76.8 % of all reptiles (n=3582) the supposed origin was mentioned in the advertisement. For 76% (n=3560) the animal was said to have been bred in captivity. Twenty-one animals were said to have been wild-caught, or long-term captive-bred (LTC) (suggesting a wild origin). The two reptile web shops did not report the origin of any of the advertised species, yet one of the shops advertised some animals as 'recent arrival from Mozambique', suggesting a wild origin of at least some of the advertised animals.

4.3.2 Protection Status

Of the 346 encountered taxa, 119 (34.39%) are currently not listed in any of the IUCN Red List categories. Of the remaining species, six (totalling 29 animals) are listed as Critically Endangered, 10 as Endangered, 24 as Vulnerable and 11 as Near Threatened. Most encountered species (61%, n=154), are listed as Least Concern. Ten of the 346 taxa are listed in CITES Appendix I, meaning that commercial trade in wild-caught specimens of those species is prohibited. Trade in these species is only allowed when

bred in captivity at registered breeding facilities or when bred in captivity for non-commercial purposes. Three of these species, Radiated Tortoise *Astrochelys radiata*, William's Dwarf Gecko *Lygodactylus williamsi* and Campbell's Alligator Lizard *Abronia campbelli*, are listed in CITES Appendix I and are also categorized as Critically Endangered. A further 85 encountered taxa are listed in CITES Appendix II and seven are listed in CITES Appendix III.

4.3.3 Nationality of the Sellers

A large difference was observed between the nationalities of the sellers offering reptiles for sale on each of the monitored online platforms. On Marktplaats.nl, the only Dutch website of the survey, most advertisements were naturally placed by Dutch nationals (98%) and a few Belgian nationals (1.37%). Yet, across the different Facebook groups, a larger array of nationalities was found catering reptiles to the Dutch market. Here, Dutch nationals were responsible for 51% of all collected advertisements, with the other 49% posted by sellers of 14 other nationalities. Of these nationalities, the Belgian (15.51%), British (10.21%), German (7.18%) and Ukrainian (6.42%) were most frequently encountered. Other sellers were from Cyprus, Czech Republic, Denmark, France, Hungary, Italy, Poland, Sweden, Switzerland, and Turkey. All these sellers claimed that the advertised animals could be picked up in or delivered to the Netherlands.

The Ball Python was found to be the most commonly advertised reptile...

98%

4.4 Live Reptile Seizures

According to the data received from the Netherlands Enterprise Agency, a total of 3074 live reptiles were seized in a minimum of 234 cases in the Netherlands between 2004 and 2017.

Figure 4. **NUMBER OF LIVE REPTILES SEIZED IN THE NETHERLANDS BETWEEN 2004 AND 2017. SOURCE: RVO**

There seems to be no real pattern in the seizures, with an average of 13 animals seized per day. Several outliers can be observed (Figure 4); most notably the seizure of 444 Common Caimans *Caiman crocodilus* at Amsterdam Airport Schiphol on 29 November 2013, which is the largest seizure in the data set. Other notable cases are the seizure of 298 Green Iguanas on 16 April 2008, and the seizure 199 Common Caimans at 12 December 2013, both at Amsterdam Airport Schiphol.

The reason for confiscation was indicated for 2706 of the 3074 seized reptiles. Violation of the Flora and Fauna Act (Flora- en faunawet) and the Nature Protection Act (Wet Natuurbescherming), which replaced the Flora and Fauna Act in 2017, were most frequently indicated, with a combined total of 1443 seized animals. The Health and Welfare of Animals Act (Gezondheids- en welzijnswet voor dieren (GWWD) and the Animals Act (Wet Dieren), which replaced the GWWD in 2013, were indicated as the reason for the confiscation of 1036 animals. Violation of CITES was indicated for 12 reptiles, and violation of EU Regulation No 1143/2014 on Invasive Alien Species for seven animals. A total of 110 animals were seized under various criminal laws, while 952 animals were seized under various administrative laws. For 185 seized reptiles, animal welfare issues were the specific reason for seizure.

The seized reptiles belonged to 120 different taxa of which Crocodilia (crocodiles, alligators and caimans) were the most frequently encountered (n=846) (Annex V), followed almost immediately by the turtles and tortoises (n=843) and lizards (n=756). Snakes accounted for only 382 seized specimens. For 247 seized reptiles, no identification was given (e. g. 'reptile'). Of only four taxa, more than 100 animals were seized. The Common Caiman was most frequently encountered, with a total of 816 seized animals, followed by the Green Iguana (n=349), the Leopard Tortoise *Stigmochelys pardalis* (n=197) and the Greek Tortoise *Testudo graeca* (n=115). For 93 out of 120 identified taxa, 10 animals or less were seized.

Ten of the encountered taxa, accounting for 116 animals, are currently listed in CITES Appendix I (Annex V), which effectively prohibits all trade in wild-caught animals. Dumeril's Boa *Acrantophis dumerili* was the most frequently seized CITES Appendix I-species, with a total of 51 animals. It should be noted that this species is prolific in captivity and relatively easy to breed for consumers. A total of 56 of the encountered taxa are currently listed in CITES Appendix II and three are listed in CITES Appendix III. The remaining taxa (n=51) are not listed in CITES. Twenty-seven of the recorded taxa (n=321) are considered threatened on the IUCN Red List (Critically Endangered, Endangered or Vulnerable), of which six are considered Critically Endangered (Annex V). Five of these Critically Endangered species are also listed in CITES Appendix I. A further six taxa are considered Endangered and 15 taxa are considered Vulnerable. Several taxa (e. g. *Abronia* spp.) were protected in their Range States at the time of seizure, before being listed in CITES.;

**Dumeril's Boa was the
CITES Appendix I species
most frequently seized...**

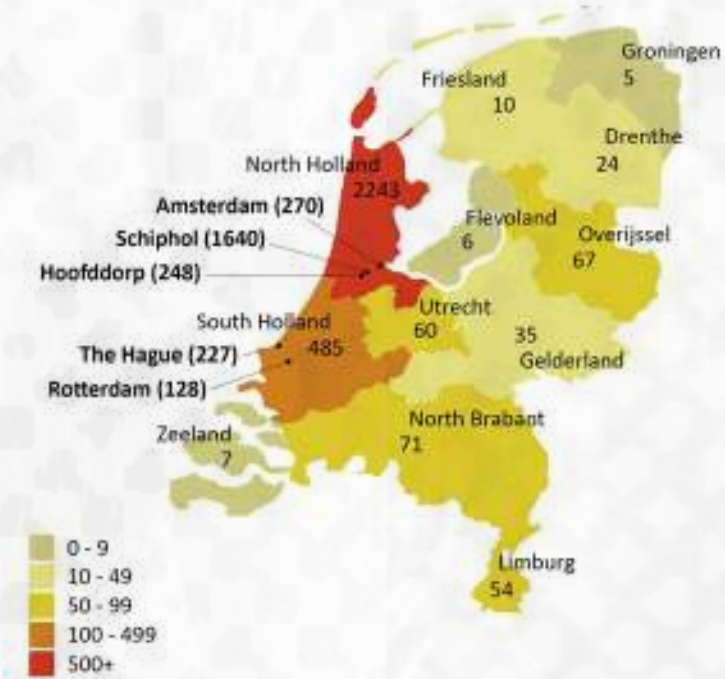


Figure 5. **LIVE REPTILE SEIZURES PER PROVINCE IN THE NETHERLANDS BETWEEN 2004 AND 2017. THE FIVE MAIN SEIZURE LOCATIONS ARE HIGHLIGHTED IN BOLD. FOR SEVEN CONFISCATED REPTILES NO SEIZURE LOCATION WAS SPECIFIED. SOURCE: RVO (WOB/2018/157).**

The recorded seizures occurred in 104 different locations (Figure 5). For seven animals no seizure location was specified. Five locations combined, all of which are situated in the Randstad, accounted for approximately 81% (n=2513) of all seized reptiles. Amsterdam Airport Schiphol accounted for the highest number of seized reptiles (n=1640), followed at a distance by Amsterdam (n=270), Hoofddorp (n=248), The Hague (n=227) and Rotterdam (n=128). This suggests that the main entry points to

the Netherlands are also the main locations for seizures of live reptiles e. g. Amsterdam Airport Schiphol. For 85 locations the obtained data only reported ten or less seized reptiles.

Approximately 50% of seized reptiles was either dead on arrival (n=44) or died after their confiscation (n=1502). This was particularly the case for Crocodilians, of which almost 96% died. Approximately 9% of seized reptiles (n=285) was given back to the owners, while 37% (n=1137) was either donated or rehomed. Of particular interest is that 33 animals were reportedly destroyed.

Table 5. **NUMBER OF LIVE REPTILES SEIZED IN THE NETHERLANDS BETWEEN 2004 AND 2017 AND FINAL DESTINATION OF EACH REPTILE. SOURCE: RVO (RVO.NL) (WOB/2018/157).**

| Taxon | Total seized | Dead on Arrival | Died | Back to owner | Rehomed | Sold | Destroyed |
|-----------------------|--------------|-----------------|------|---------------|---------|------|-----------|
| Crocodilians | 846 | | 809 | 1 | 34 | | 1 |
| Lizards | 756 | 15 | 462 | 7 | 220 | 2 | 27 |
| Snakes | 382 | 1 | 93 | 41 | 207 | 6 | 4 |
| Turtles and tortoises | 843 | 28 | 138 | 19 | 647 | 11 | |
| Unidentified | 247 | | | 217 | 29 | | 1 |
| Grand Total | 3074 | 44 | 1502 | 285 | 1137 | 19 | 33 |

4.5 The Netherlands in a European Context

When looking at the import of live CITES-listed reptiles reported by all countries in the EU, the UNEP-WCMC CITES Trade Database reveals that almost 5 111 703 live CITES-listed reptiles were imported under source codes ‘T’ and ‘P’ between 1 January 2000 and 31 December 2017. Among EU countries, Germany was the country reporting the highest numbers of CITES-listed live imported reptiles (n=1 263 451) during this period, closely followed by Spain (n=1 038 506), Italy (n=603 827) and Portugal (n=531 344) (Table 6). The Netherlands was the 8th country when it comes to CITES-listed reptile importer volumes, with a mere 3.68% (n=188 015) of all live CITES-listed reptiles imported into the EU. A total of 441 790 live CITES-listed reptiles were exported from the EU during the research period. Slovenia was the country reporting the highest number of exported reptiles (n=140 597), followed by Czech Republic (n=139 701) and Germany (n=54 635) (Table 7). The Netherlands was the 6th largest exporter, accounting for a mere 2.24% (n=9917) of all CITES-listed exported reptiles. Of interest is that the number of CITES-listed reptiles exported from the EU comprises only 8.6% of all CITES-listed imports, suggesting that most CITES-listed imported reptiles are destined for the EU internal market.

...most CITES-listed imported reptiles are destined for the EU internal market.

Table 6. **IMPORT AND EXPORT OF LIVE CITES-LISTED REPTILES INTO AND FROM THE EUROPEAN UNION BETWEEN 1 JANUARY 2000 AND 31 DECEMBER 2017.**

| EU Importer | Number | % | EU Exporter | Number | % |
|-------------|-----------|--------|-------------|---------|--------|
| DE | 1 263 451 | 24.72% | SI | 140 597 | 31.82% |
| ES | 1 038 506 | 20.32% | CZ | 139 701 | 31.62% |
| IT | 603 827 | 11.81% | DE | 54 635 | 12.37% |
| PT | 531 344 | 10.39% | SK | 50 995 | 11.54% |
| FR | 394 534 | 7.72% | IT | 19 050 | 4.31% |
| GB | 379 249 | 7.42% | NL | 9917 | 2.24% |
| CZ | 276 102 | 5.40% | ES | 5104 | 1.16% |
| NL | 188 015 | 3.68% | FR | 4261 | 0.96% |
| GR | 118 078 | 2.31% | GB | 4104 | 0.93% |
| BE | 104 206 | 2.04% | HU | 3688 | 0.83% |

Whereas the Netherlands seems to play a relatively small role as an importer and exporter of CITES-listed reptiles coming into and going out of the EU, it remains largely unclear how much of the internal EU reptile trade passes through, or is destined for, the country. However, the EUROSTAT database does provide some further insight. Between 2002 and 2017, the database reveals that the EU imported a total of 26 472 570 live reptiles. During the same time period, the EU imported 4 658 562 live CITES-listed reptiles, suggesting that the remaining 21 814 008 reptiles are not listed in CITES. The Netherlands imported 1 342 541 live reptiles, making it the 6th country in terms of total reptile import volume. This suggests that the Netherlands is a more important player when it comes to the import of non-CITES reptiles, rather than CITES-listed reptiles (8th in terms of import volume). Germany is the EU's

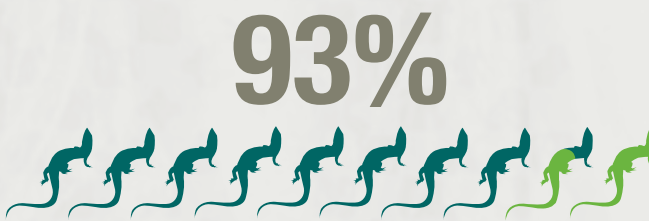
number one importer, with a total of 7 792 380 imported live reptiles (1 263 451 CITES-listed; Table 6); almost double the total quantity of CITES-listed reptiles imported into the EU during the same time period. The total number of live reptiles exported by EU countries is dwarfed by the imported quantities, with merely 8 681 322 live reptiles exported according to EUROSTAT. Sweden accounted for approximately 93% of these exports, amounting to 8 031 068 animals. The Netherlands ranked 5th in terms of live reptile exports, with a total of 106 898 animals exported between 2002 and 2017.

the Netherlands is a more important player when it comes to the import of non-CITES reptiles...

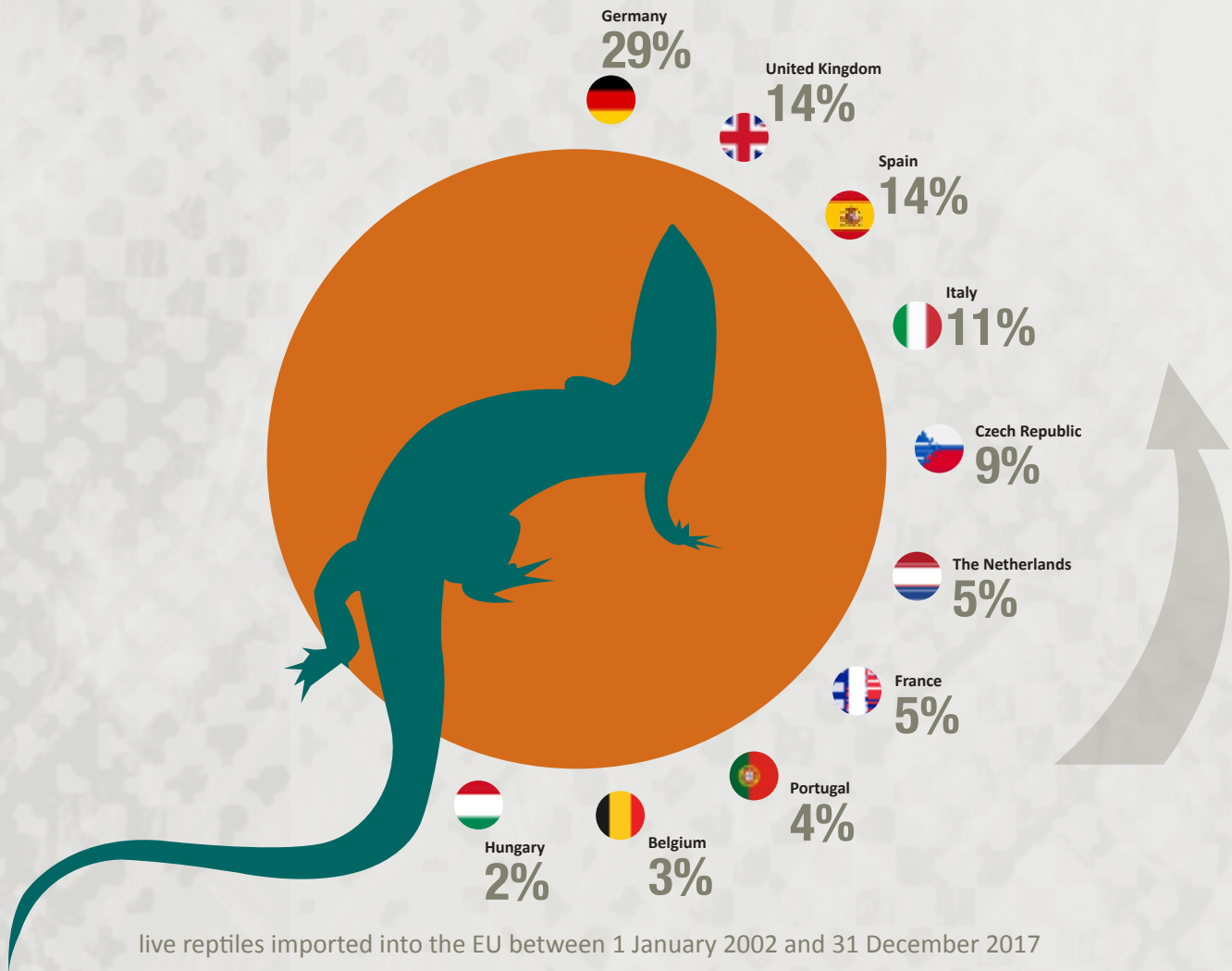
Table 7. IMPORT AND EXPORT NUMBERS OF LIVE REPTILES INTO AND FROM THE EU BETWEEN 1 JANUARY 2002 AND 31 DECEMBER 2017 AND QUOTED VALUE IN EUR. SOURCE: EUROSTAT

| Importer | Number | % | Importer | EUR | % | Exporter | Number | % | Exporter | EUR | % |
|----------|-----------|-----|----------|------------|-----|----------|-----------|-----|----------|-----------|-----|
| DE | 7 792 380 | 29% | DE | 30 638 909 | 30% | SE | 8 031 068 | 93% | DE | 6 710 263 | 29% |
| UK | 3 739 707 | 14% | UK | 17 467 469 | 17% | DE | 158 397 | 2% | CZ | 3 738 619 | 16% |
| ES | 3 706 024 | 14% | ES | 12 207 724 | 12% | CZ | 133 272 | 2% | SL | 3 187 300 | 14% |
| IT | 2 838 522 | 11% | FR | 9 332 332 | 9% | SL | 122 345 | 1% | NL | 3 073 342 | 13% |
| CZ | 2 365 975 | 9% | CZ | 7 572 922 | 7% | NL | 106 898 | 1% | IT | 1 438 707 | 6% |
| NL | 1 342 541 | 5% | BE | 6 246 337 | 6% | SK | 25 290 | 0% | AT | 1 172 150 | 5% |
| FR | 1 316 043 | 5% | IT | 6 146 516 | 6% | IT | 23 768 | 0% | SE | 800 306 | 3% |
| PT | 993 433 | 4% | NL | 5 784 274 | 6% | FR | 16 542 | 0% | FR | 790 759 | 3% |
| BE | 869 660 | 3% | PT | 2 015 234 | 2% | RO | 12 282 | 0% | UK | 736 287 | 3% |
| HU | 424 316 | 2% | DK | 1 492 995 | 1% | DK | 11 045 | 0% | DK | 481 574 | 2% |

The total value of all live reptiles imported by the EU is documented at 103 065 334 EUR. In the Netherlands, live reptile imports are valued at 5 784 274 EUR, making it the 8th EU country in terms of monetary value (Table 7). This is of particular interest as it suggests that the average reptile imported in the Netherlands is cheaper compared to e. g. France (7th importer in terms of volume, but 4th in terms of quoted value) or Belgium (9th importer in quantities, 6th in terms of monetary value). When it concerns the export of live reptiles, the Netherlands ranks 4th with the total live reptile exports valued at 3 073 342 EUR, nearly 14% of the total value of all reptiles exported by the EU. This suggests the export of higher valued animals compared to other EU member states.



Sweden accounted for approximately 93% of these exports, amounting to 8 031 068 animals



5. DISCUSSION

Whenever illegal wildlife enters the EU through... “weak links”, it becomes nearly impossible for law enforcement to detect it at a later stage



5.1 Species of Concern

During this study, several species of concern were observed. These are species whose advertisement and/or trade in or from the Netherlands raises suspicion or should be seen as being of concern to its conservation. The following examples relate to several different concerns.

5.1.1 Species exported without import records

Between 1 January 2000 and 31 December 2017, the Netherlands exported 30 taxa for which no import records were found (in the period between 1 January 1975 and 31 December 2017). However, for 25 of these taxa, import records existed for other EU countries in the years prior to when they were exported from the Netherlands, suggesting they may have been imported into the Netherland via the EU internal market. Three taxa were exported a year after they were listed in CITES, which would explain the absence of import records. However, for the remaining two species; the Iraqi Mastigure *Saara loricata* and the Northern Ridge-tailed Monitor *Varanus primordius*, no legal import records into the EU could be found.

Iraqi Mastigure *Saara loricata*

The Iraqi Mastigure, native to Iraq and Iran, is not commonly found in the pet trade (Papenfuss et al. 2009). This species has been listed in CITES Appendix II since 1977. When looking at EU trade data, it is revealed that in 2015, the Netherlands exported 18 live animals for commercial purposes to Japan (Figure 6). The shipment in question originated from the Czech Republic, yet neither the Czech Republic or any other EU Member State has reportedly imported this species for commercial purposes since its CITES-listing. The Netherlands was found to have exported the species again in 2017 (eight animals). In addition to the lack of legal import records in the EU, no legal export records from the species’ range states (Iran, which joined CITES in 1976, and Iraq, which joined CITES in 2014) exist. It seems likely that Iraqi Mastigures have been illegally exported from their range states and have entered the EU via the Czech Republic. While it is legal to trade this species with the right paperwork and the species does not seem to be threatened (it is currently classified as Least Concern on the IUCN Red List), its presence in multiple EU member states without there being import records shows that there are reporting gaps and/or that animals are illegally entering the EU market.

...there are reporting gaps and/or animals are illegally entering the EU market.

Comparative Tabulation Report

| Year | App. | Taxon | Class | Order | Family | Genus | Importer | Exporter | Origin | Importer reported quantity | Exporter reported quantity | Term | Unit | Purpose | Source |
|------|------|-----------------------|----------|--------|----------|--------------|----------|----------|--------|----------------------------|----------------------------|------|------|---------|--------|
| 2015 | II | <i>Saara loricata</i> | Reptilia | Sauria | Agamidae | <i>Saara</i> | JP | NL | CZ | 18 | 18 | live | | T | C |
| 2015 | II | <i>Saara loricata</i> | Reptilia | Sauria | Agamidae | <i>Saara</i> | US | CZ | | 12 | 12 | live | | T | C |
| 2015 | II | <i>Saara loricata</i> | Reptilia | Sauria | Agamidae | <i>Saara</i> | US | DE | CZ | 1 | 5 | live | | T | C |
| 2015 | II | <i>Saara loricata</i> | Reptilia | Sauria | Agamidae | <i>Saara</i> | US | DE | | 4 | | live | | T | C |
| 2017 | II | <i>Saara loricata</i> | Reptilia | Sauria | Agamidae | <i>Saara</i> | US | NL | | 8 | 8 | live | | T | C |

Figure 6. IMPORT AND EXPORT DATA FOR THE IRAQI MASTIGURE FOR THE PERIOD (1975-2018). SOURCE: UNEP-WCMC CITES TRADE DATABASE. COUNTRY CODES: SEE ANNEX VI.

Northern Ridge-tailed Monitor

Varanus primordius

The Northern Ridge-tailed Monitor is an Australian endemic found in the country’s Northern Territory. The species is listed in CITES Appendix II (since 1975) and is classified as Least Concern on the IUCN Red List. Whereas Australia does not allow the live export of native wildlife (Alacs and Georges 2008), this species was found to have been exported from Denmark and Germany in 2015 (Figure 7). In 2016, the Netherlands also exported 11 specimens to Japan, with

Germany as its listed origin. With no legal export records existing for Australia, and no legal import records for Germany, this species has very likely entered the EU illegally. All specimens traded from the EU were marked as bred in captivity or born in captivity. However, even if the exported specimens were indeed bred in captivity, parent stock would have to have been illegally exported from Australia in the past. Species that have illegally entered the EU can subsequently be relatively freely traded among member states, making it likely that the species is also available in the Netherlands.

...parent stock would have to have been illegally exported from Australia in the past.

Comparative Tabulation Report

| Year | App. | Taxon | Class | Order | Family | Genus | Importer | Exporter | Origin | Importer reported quantity | Exporter reported quantity | Term | Unit | Purpose | Source |
|------|------|---------------------------|----------|--------|-----------|----------------|----------|----------|--------|----------------------------|----------------------------|-----------|------|---------|--------|
| 2001 | II | <i>Varanus primordius</i> | Reptilia | Sauria | Varanidae | <i>Varanus</i> | AU | US | AU | | 12 | specimens | | S | W |
| 2015 | II | <i>Varanus primordius</i> | Reptilia | Sauria | Varanidae | <i>Varanus</i> | US | DE | | 14 | 14 | live | | T | C |
| 2015 | II | <i>Varanus primordius</i> | Reptilia | Sauria | Varanidae | <i>Varanus</i> | US | DE | | 32 | 32 | live | | T | F |
| 2015 | II | <i>Varanus primordius</i> | Reptilia | Sauria | Varanidae | <i>Varanus</i> | US | DK | DE | | 7 | live | | P | F |
| 2015 | II | <i>Varanus primordius</i> | Reptilia | Sauria | Varanidae | <i>Varanus</i> | US | DK | | 7 | | live | | T | C |
| 2016 | II | <i>Varanus primordius</i> | Reptilia | Sauria | Varanidae | <i>Varanus</i> | JP | DE | DK | 2 | | live | | T | C |
| 2016 | II | <i>Varanus primordius</i> | Reptilia | Sauria | Varanidae | <i>Varanus</i> | JP | DE | | | 2 | live | | T | C |
| 2016 | II | <i>Varanus primordius</i> | Reptilia | Sauria | Varanidae | <i>Varanus</i> | JP | NL | DE | 11 | 11 | live | | T | C |
| 2017 | II | <i>Varanus primordius</i> | Reptilia | Sauria | Varanidae | <i>Varanus</i> | JP | DE | DK | 11 | | live | | T | C |
| 2017 | II | <i>Varanus primordius</i> | Reptilia | Sauria | Varanidae | <i>Varanus</i> | JP | DE | | | 11 | live | | T | C |
| 2017 | II | <i>Varanus primordius</i> | Reptilia | Sauria | Varanidae | <i>Varanus</i> | US | DE | | 4 | 4 | live | | T | C |

Figure 7. IMPORT AND EXPORT DATA FOR THE NORTHERN RIDGE-TAILED MONITOR OVER THE PERIOD 1975-2018. SOURCE: UNEP-WCMC CITES TRADE DATABASE.

5.1.2 Fraudulent source declarations

A large percentage of the imported (33.21%) and exported (73.84%) animals and those advertised online (76%), was reportedly bred in captivity. While this seems like a positive development, recent research suggests that a proportion of these animals is likely being fraudulently declared as such (Franke and Telecky 2001, Lyons and Natusch 2011, Nijman and Shepherd 2015, Janssen and Chng 2018). This 'laundering' of reptiles is an increasingly popular way to circumvent trade restrictions. Certain species, often protected by national legislation, are only allowed to be exported or traded when bred in captivity. Therefore, traders declare animals as such, even when they have been caught in the wild. Life history characteristics of many species do not allow them to reproduce quickly enough to meet demand on the pet market. Janssen and Chng (2018) revealed that the practice of laundering animals is widespread. This provides difficulties for enforcement authorities as laundered animals often come with the correct (but illegally acquired) paperwork attached.

Many traders or reptile keepers in the Netherlands are often unaware of trade restrictions and laundering practices for certain reptiles (personal observation), in particular when it concerns non-CITES species. Consumers understandably assume the origin of their pet to be what the seller claims it to be. Because of this unawareness, trade in laundered species continues.

During this study, we found several species for which laundering practices have been documented in the past, such as the Green Tree Python *Morelia viridis*, which is nationally protected and for which researchers have estimated that up to 80% of all exported animals are fraudulently declared as captive-bred (Lyons and Natusch 2011, Natusch and Lyons 2012), and Boelen's Python *Simalia boeleni* (Lettoof 2015). Another example is the Horsfield's Tortoise:

Horsfield's Tortoise *Testudo horsfieldii*

Horsfield's Tortoise is listed in CITES Appendix II (since 1975) and is classified as Vulnerable on the IUCN Red List. It is popular among reptile keepers, but its trade has recently been criticized due to supposed laundering practices (Smith and Porsch 2015). Most of the trade in this species originates from Uzbekistan (CITES Party since 1997).



Uzbekistan's export quota for captive-bred Horsfield's Tortoises increased from a mere 5000 in 2015 to 30 600 in 2017. This is in addition to a quota for wild-caught animals (~85 000 in 2017), ranched animals (~31 300 in 2017) and animals born in captivity (~11 900 in 2017). The total number of animals allowed to be exported from Uzbekistan accumulates to over 100 000 annually. However, only one Uzbek farm is known to breed Horsfield's Tortoises, making said export quotas unrealistic (Smith and Porsch 2015). It has been estimated that 50 to 75% of all Horsfield's Tortoises declared as captive-bred are likely to have been fraudulently declared as such (Smith and Porsch 2015). Moreover, Uzbek authorities estimate that actual trade numbers are much higher than those reported (roughly 35 000 in 2007), meaning that the pressure on wild populations is likely to be even higher than already thought. Additionally, several other Horsfield's Tortoise range states are not a Party to CITES, which likely adds to the illegal trade in the species by complicating the differentiation between legal and illegal trade streams. This facilitates laundering practices in source country's that

are a Party to CITES. Horsfield's Tortoises accounted for 91% (n=9991) of all wild-caught reptiles imported by the Netherlands and for about 12% of all CITES-listed reptiles that were exported from the Netherlands during the research period. A relatively small number of Horsfield's Tortoises (n=34) was observed during the online survey. The Netherlands appears to be both a transition and a destination country in the international Horsfield's Tortoises trade, although trade volumes appear to be relatively low. Trade numbers across the EU are much higher, with a total of 593 303 Horsfield's Tortoises imported during the study period. Due to the EU Single Market, which enables the free cross-border movement of goods, these tortoises can easily find their way to Dutch reptile keepers, many of which are likely to be unaware of the concerns regarding the Horsfield's Tortoise trade.

Consumers understandably assume the origin of their pet to be what the seller claims it to be. Because of this unawareness, trade in laundered species continues.



animals were imported from Ukraine in 2016-2017, for some of which EU suspensions for wild-caught specimens are currently in place

The large number of animals found to have been imported into the Netherlands from Ukraine as captive-bred, also raises questions. Of interest is the fact that 306 animals were imported from Ukraine in 2016-2017, for some of which EU suspensions for wild-caught specimens are currently in place. Parson's Chameleon *Calumma parsonii* is such a species. Eighty-six reportedly captive-bred animals were imported between 2016 and 2017. This species is relatively difficult to breed in captivity and breeding the reported quantities seems challenging.

The fact that Ukraine had only imported seven Parson's Chameleons before 2016 raises questions. Ukraine did import 26 Parson's Chameleons in 2016, which could have been before the documented export to the Netherlands. Yet, the large number of captive-bred exported animals raises questions, as Ukraine had only imported wild caught animals. This increases the suspicion that these animals have likely been fraudulently declared as such and were likely caught in the wild.

5.1.3 Nationally protected species

Many of the species observed in this study are subject to trade restrictions in their countries of origin. For many of these species it is illegal to export them from their range States, regardless of them being listed in CITES or not. Whereas many reptile keepers and traders are aware of international trade restrictions and national legislation in certain countries (e. g. Australia), for other countries (e. g. Sri Lanka) this information is either not known or very difficult to find. For instance, LEMIS data showed that reportedly wild-caught Leopard Geckos *Eublepharis macularius* were imported from the Netherlands by the US. While this species is one of the most commonly-kept and bred reptiles in the global pet trade, wild-caught specimens are rarely encountered. Whereas initial demand was for profitable colour morphs, wild-caught animals are now wanted to establish new bloodlines. The increasing rarity of wild Leopard Geckos is fuelling an increase in price for wild-caught animals. Pakistan, one of the range states, does not allow the export of live wildlife, yet smuggling appears to be ongoing and thriving (Rasheed 2013).

The following two examples are illustrative of this problem:

Australia

Australia is a well-known example of a range state that prohibits the export of (any) native wildlife. Notwithstanding the country's trade restrictions, Australian endemics are increasingly found on the international market. Apart from the commonly-kept and captive-bred Central Bearded Dragon, observations suggest that more and more rare (and often locality-specific) Australian endemics are being traded on an international level (e. g. the aforementioned Northern-

ridge Tailed Monitor). Between July and September 2018, more than 110 native Australian reptiles were confiscated by Australian authorities in a total of 20 foiled smuggling attempts (Australian Border Force, 2018). Several Australian species are known to be bred outside Australia, advertisements of large numbers of animals are sometimes encountered, often with specific locality data attached. Animals with the locality "Goldfield" from Western Australia are an example of this; during the online survey, Shinglebacks *Tiliqua rugosa* "Goldfield" were found for sale in the Netherlands. Shinglebacks are difficult to breed in captivity and slow-reproducing; the attachment of specific locality provides another indication that animals have likely been smuggled or originate from smuggled parental-stock.

Several supposedly wild-caught Australian reptile species (Central Bearded Dragon and Rankin's Dragon *Pogona henrylawsoni*) were also exported from the Netherlands to the US. As the export of any live native wildlife from Australia is effectively prohibited (Alacs and Georges, 2008), these transactions should not have been allowed under the US Lacey Act.

Sri Lanka

Two species, advertised as originating from Sri Lanka, were observed during the online survey; the Indian Star Tortoise *Geochelone elegans* and Indian Cobra *Naja naja*. However, Sri Lanka does not allow the export of native wildlife for commercial purposes. Nevertheless, Sri Lankan species are increasingly observed in trade in the EU. At least 17 Sri Lankan species have been recorded within the EU and more are likely to be available and kept in the Netherlands (Janssen and de Silva, in press). Unlike the Indian Star Tortoises (CITES Appendix II), which is a known target of wildlife smugglers (Shepherd et al. 2004) many of these Sri Lankan species are not protected under CITES, meaning that no legal paperwork is required when buying them at EU reptile fairs. As most of these non-CITES listed species are also bred in captivity, the line between legal and illegal trade is being blurred.

The trade in nationally protected species and the unawareness of reptile traders and keepers regarding the protection status of their animals in their countries of origin extends well beyond the Netherlands.

The trade in nationally protected species and the unawareness of reptile traders and keepers regarding the protection status of their animals in their countries of origin extends well beyond the Netherlands. Two consecutive studies by Pro Wildlife found nationally protected species from 18 different countries for sale across the EU (Altherr, 2014; 2016). In the case of non-CITES species, the legality of their trade becomes unclear once the animals have been smuggled out of their country of origin. Technically, such species may be freely traded once they have (illegally) reached the EU market. The fact that these nationally protected species are legally available in the Netherlands and the EU further obstructs customer awareness regarding these animals' protected status. Whereas the European Commission states that the "EU market should not fuel demand for species that have been harvested illegally or unsustainably" (European Commission, 2018), the lack of legal protection for such species makes the EU a major player in their trade (Altherr, 2014; Vinke and Vinke, 2015; Auliya et al., 2016). Many customers understandably assume that reptiles, openly offered in pet stores and on reptile fairs, are legal, without realising they are fully protected in their range States. The free trade in nationally protected non-CITES

species, smuggled from their range States can be considered one of the most significant challenges in the illegal reptile trade today.

When protected species are bred in captivity outside their country of origin, another problem arises; although they are genuinely bred in captivity, parent stock was illegally exported from the country of origin. Whereas CITES species, smuggled out of their range States, require false paperwork, non-CITES species do not require such paperwork and can be relatively freely traded. Monitoring trade in non-CITES reptiles is subjected to many challenges and often only able to provide a partial overview (Janssen and Shepherd 2018).

EU legislation currently does not specifically protect nationally-protected species from non-EU range States like the US Lacey Act does. An important step to tackle this problem, and to provide law enforcement the legal means to enforce, is for the EU to adopt similar legislation. Secondly, increased awareness among reptile keepers is required on national legislation of range States, yet

this requires resources to be made available for reptile keepers to find such legislation e. g. similar to <http://www.speciesplus.net> for CITES/EU legislation. There is no readily available information that could assist reptile keepers in obtaining information about the legal status of their pets in their range states before they buy them.

Trade in species listed under this regulation is strictly prohibited because of the damage these species will cause to the biodiversity, public health or the economy of the EU

5.1.4 EU regulated species

In 2015, the EU Regulation No. 1143/2014 on the prevention and management of the introduction and spread of invasive alien species (IAS) entered into force. This EU Regulation serves to prevent, detect and rapidly eradicate new invasions, and manage invasions that are already widespread. Trade in species listed under this regulation is strictly prohibited because of the damage these species will cause to the biodiversity, public health or the economy of the EU. Private owners of such species are allowed

1143/2014

in 2015, the EU Regulation on the prevention and management of the introduction and spread of invasive alien species (IAS) entered into force

to keep their animals until they die but are not allowed to sell or trade them in any way. Some listed species, including three subspecies of the Pond Slider *Trachemys scripta*, were encountered during the online survey. A total of 36 specimens was counted, showing that trade in these species is still being conducted (Figure 8). All but one of the specimens was observed on Marktplaats.nl. Several reptile keepers intentionally advertised prohibited species (EU invasive species) for sale and admitted that they did so illegally. One seller claimed that he did not have the space to keep the animals any longer but would rather sell them than send them to a rescue centre. Several other reptile traders claimed they would prefer selling their reptiles instead of bringing them to a rescue centre as they did not agree with the EU regulations.

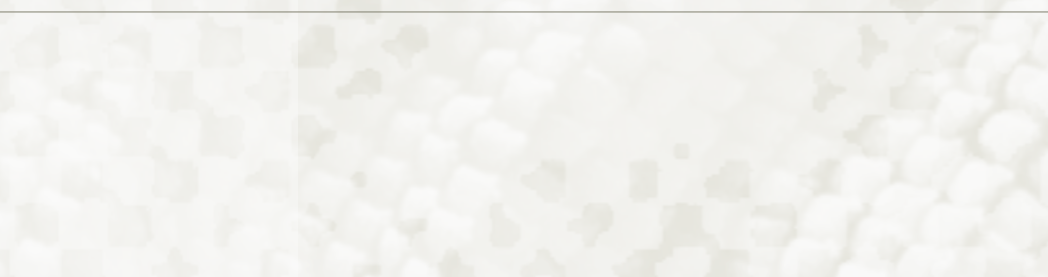


Figure 8. **EXAMPLE OF EU-PROHIBITED SPECIES FOR SALE ON MARKTPLAATS.NL; CUMBERLAND SLIDER *TRACHEMYS SCRIPTA TROOSTI***

5.1.5 Critically Endangered species

...any negative harvesting impact on wild populations is likely to only be discovered when the damage is already severe.

This study has found that several Critically Endangered species are either kept or offered for sale in the Netherlands. Some of these species may be highly endangered in the wild but relatively common in captivity (e.g. William's Dwarf Gecko). However, for most of them, any trade in wild-caught specimens is likely to have a significant impact on wild populations. For example, the Union Island Gecko *Gonatodes daudini* has an extremely limited distribution, only occurring in a 1km² area. Nevertheless, two specimens of the species were found for sale online. Union Island Geckos are not yet listed in CITES. Monitoring the trade in threatened non-CITES species is significantly hampered by poor data collection and reporting efforts (Janssen and Shepherd 2018). If trade in species is poorly documented, any negative harvesting impact on wild populations is likely to only be discovered when the damage is already severe.

The Radiated Tortoise is illustrative of the difficulties involved in combatting the trade in Critically Endangered species. The recent discovery (April 2018) of more

than 10 000 poached wild Radiated Tortoises in Madagascar shows that the international demand for this CITES Appendix I-listed species is still thriving. Despite its CITES-listing, effectively prohibiting all commercial trade in wild-caught specimens, non-commercial trade of the species is still possible when it concerns captive-bred specimens. Moreover, non-range state Mauritius has two registered captive breeding facilities, which export legally-bred specimens. Radiated Tortoises were also observed at an illegal turtle and tortoise farm in Spain in August 2018. This leads to a situation in which legal captive-bred animals are mixed-in with poached specimens, and smuggled specimens are given false paper-work, resulting in a market in which the actual origin of specimens is difficult to trace.

Many reptile keepers claim that keeping reptiles in captivity is an act of conservation. Such keepers claim that keeping and breeding rare reptiles in captivity can save species, as many are often severely threatened by e. g. habitat loss or destruction. Even when species are classified as Critically Endangered, some people are not deterred from keeping them. Common reasoning behind this is that breeding and keeping species will allow them to survive, even if this is only in captivity. Such attitudes towards conservation may fuel demand and may have devastating effects on wild populations and the ecosystems they are a part of. Similar attitudes were observed in regard to the trade in non-Critically Endangered species such as the Earless Monitor Lizard. This species' exact distribution patterns were published in 2012 (Nijman and Stoner, 2014), after which many animals were illegally exported to the EU, in some cases supposedly to 'save them from habitat destruction'.

5.2 Impact of the EU Single Market on Trade Analysis

The EU Single Market system allows wildlife to move virtually unnoticed from one EU country to another. An analysis of the Netherlands imports, and export data therefore does not provide a complete picture of the country's involvement in the international reptile trade. As noted above (5.1.1 Species exported without import records), the Netherlands were found to have exported 30 taxa for which no import records existed. It is likely that most of these taxa entered the country via another EU Member State. The data indeed showed that 25 of the 30 species had been imported into surrounding EU Member States in the years prior to their export from the Netherlands. While the Netherlands ranks 8th among EU countries when it comes to reptile imports, and 6th when it comes to exports, it remains largely unclear how many species and specimens end up on the Dutch market through other EU Member States. Besides complicating trade analyses on a national level, the unregistered movement of reptiles between EU countries facilitates the trade in illegal and illegally acquired species within the EU. The impact of the EU Single Market was further laid bare during the online survey. Sellers of fifteen different nationalities were observed catering to the Dutch market, 12 of which had EU nationalities. Foreign sellers advertised 1014 animals to be sold at Dutch reptile fairs, including 13 that are listed in CITES Appendix I. Conversely, Dutch sellers were found advertising a total of 581 animals on German reptile classified website Terraristik.com with global audience.

The lack of border control on the EU internal market provides significant challenges to law enforcement. The enforcement of the EU Regulations is only as strong as the weakest link within the EU. Whenever illegal wildlife enters the EU through such "weak links", it becomes nearly impossible for law enforcement to detect it at a later stage. Moreover, even when such trade is detected, if the right paperwork has been handed out by other EU Member States, not much can be done to forbid it. While this issue is very likely on the radar of law enforcement, consumers might not be aware of the problem. Personal experience learns that many reptile keepers assume that animals for sale in the Netherlands or other EU countries have a legal origin. Many are unaware of the fact that some species might be brought into the EU illegally, with false-paperwork.

The trade in nationally protected species and the unawareness of reptile traders and keepers regarding the protection status of their animals in their countries of origin extends well beyond the Netherlands.

6. CONCLUSION

The Netherlands is an important exporter and importer of reptiles traded within the EU.



The Netherlands has been considered an important player in the international reptile trade.

The country is home to several well-established large reptile fairs, including the quarterly Terraria Expo and the annual “Snake Day” in Houten, which attract visitors from all over Europe and the world. The high total value of the recorded online trade further suggests that the Netherlands is an important exporter and importer of reptiles traded within the EU. CITES data nevertheless show that the Netherlands ranks lower than expected when it comes to the export and import of reptiles in a European context. The country ranks 6th in terms of export (2,24% of total EU reptile exports) and 8th in terms of import (3,68% of total EU reptile imports). Our data shows that the Netherlands is a more important player in terms of non-CITES species (6th importer in the EU) but considering the country’s lower ranking in terms of monetary value (9th), it seems that this mostly comprises cheaper, and likely more commonly kept, species.

...legal trade in non-protected species may nevertheless be detrimental to wild populations

Some of the species found to have been traded from and within the Netherlands have no legal import records, are prohibited in the EU, or are subjected to export-bans in their countries of origin. The selected examples provided in this report are illustrative to these respective problems. It should also be highlighted that legal trade in non-protected species may nevertheless be detrimental to wild populations, particularly where it concerns newly-described endemic species with limited distribution and small populations.

The Netherlands’ role in the international reptile trade is inseparably linked to that of the EU. Due to the EU Single Market, which allows goods to be moved freely among EU Member States, trade analysis on a national level is complicated. Moreover, the EU Single Market facilitates the internal EU trade in illegal and illegally acquired species and poses

significant challenges to law enforcement. Additionally, the EU Wildlife Trade Regulations currently do not prohibit the trade in several species that enjoy a protected status in their countries of origin. Whereas the European Commission states that the “EU market should not fuel demand for species that have been harvested illegally or unsustainably”, the lack of legal protection for such species makes the EU a major player in the illegal trade in such species. The adoption of trade restrictions regarding such nationally protected species would improve regulation of an important part of the international reptile trade.

The issues mentioned in this report are well-known, but very difficult to tackle. Many require both legislative change and conscious efforts from consumers to ensure their animals are legally and responsibly acquired. Personal observations learn that many reptile keepers assume that animals for sale in the Netherlands or in other EU countries are of legal origin. Many are unaware of the fact that some species may be protected in their range states or may have been brought into the EU illegally using false-paperwork. Consumers need to be more aware of such issues, but it is unrealistic to expect a change in mindset and behaviour when they are not provided with the right information. Providing consumer with a specially-designed information tool would increase general awareness and enable reptile enthusiasts to check the legality and the conservation impact of their potential purchases.

...the EU Wildlife Trade Regulations currently do not prohibit the trade in several species that enjoy a protected status in their countries of origin.

7. RECOMMENDATIONS

CITES trade records are not representative of the actual numbers of reptiles traded internationally...



...the EU should adopt legislation that ensures such species are also protected in the EU

FURTHER RESEARCH

In order to paint a more comprehensive picture of the trade volumes of live reptiles moving through the Netherlands, this study’s trade analysis needs to be complemented with further research into the trade of non-CITES species. Only a relatively small percentage (~8%) of all reptiles in trade is listed in the CITES appendices, meaning that CITES trade records are not representative of the actual numbers of reptiles traded internationally (involving both CITES and non-CITES species). While the EUROSTAT data provided an indication of trade quantities and the online survey provided an indication of what non-CITES species are traded, the latter should only be considered a snapshot. Only through structural and well-coordinated registration of all reptiles (CITES and non-CITES) entering and exiting the Netherlands (and the EU), would it be possible to obtain a comprehensive overview of the species moving through the country.

ONLINE TRADE MONITORING

Social media platforms and other online trade platforms play an increasingly important role in the reptile trade. Advertisements are placed by sellers from a wide range of countries, making it easier to obtain rare or illegal species. It is therefore essential that the online reptile trade is monitored.

Many of the species observed online are subject to trade restrictions, classified as Critically Endangered and/or are likely to have been laundered. Further research into the scale of the online trade in live reptiles in the Netherlands is required to detect and effectively combat illegal trade practices.

LEGISLATIVE CHANGE

Several studies have highlighted the impact of the lack of EU protection of non-native species that are protected in their range states. Current legislation enables protected non-CITES species to be freely traded within the EU once they have been smuggled out of their country of origin. In order to combat the increasing trade in nationally-protected species, the EU should adopt legislation that ensures such species are also protected in the EU, much like the United States has done by adopting the Lacey Act.

DEVELOP INFO TOOL FOR CONSUMERS

To increase consumer awareness in regard to the protected status of nationally-protected non-native species, it is essential that relevant information on such species is made freely and easily available. An information tool outlining all relevant legislation concerning a species, including trade bans (such as the total ban of export of live native wildlife in Australia), its national protection level, CITES-status and laundering history (in cases where this is relevant) should be developed. This would

allow consumers to make well-considered purchases and enable them to detect illegal trade practices. Governmental- and non-governmental organizations should actively promote such a tool and seek collaboration of local herpetological societies. The RVO is one of the institutions that could be responsible for the development and management of such a tool.

PRIORITY SPECIES

This report has highlighted many species which are subjected to trade restrictions or for which trade is a potential conservation concern. However, as the data obtained in this report should only be considered a snapshot, it is essential to obtain more information on the scale of trade in these species in the Netherlands. The following species should be considered priority species and should be the subject of further research:

| Species | Reason |
|--|---|
| Australian monitor lizards* with no or small captive population (e.g. <i>Varanus varius</i> , <i>V. giganteus</i> , <i>V.semiremex</i> , <i>V.rosenbergi</i>) | Export from range state prohibited, new species observed in trade and likely recent smuggling attempts. Small captive population, likely little to no captive breeding. |
| Bourret’s Box Turtle <i>Cuora bouretti</i> | Critically endangered, protected but known smuggling attempts. Documented trade in wild individuals. |
| <i>Cophotis</i> spp. and <i>Ceratophora</i> spp. | Non-CITES, protected in range state. Known smuggling attempts. |
| <i>Egernia</i> spp.* | Non-CITES, protected in range state and frequent smuggling attempts documented. |
| Horsfield’s Tortoise <i>Testudo horsfieldii</i> | Laundering documented en masse. |
| Parson’s Chameleon <i>Calumma parsonii</i> | Laundering documented, difficult to breed in captivity. |
| Radiated Tortoise <i>Astrochelys radiata</i> | Critically Endangered, CITES Appendix I and subjected to frequent smuggling attempts. |
| Shinglebacks <i>Tiliqua rugosa</i> | Non-CITES, protected in range state and frequent smuggling attempts documented. |
| Union Island Gecko <i>Gonatodes daudini</i> | Non-CITES, nationally protected and Critically endangered. Known smuggling attempts and observed in trade |

*Captive breeding occurs in some of these species e.g. *Vacanthurus* and *Vtristis*, but smuggling is ongoing.

...allow consumers to make well-considered purchases and enable them to detect illegal trade practices.

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ANNEX I – IMPORT OF LIVE REPTILES 2000-2017

| | IUCN | CITES | Main Exporter | C | F | O | R | U | W (blank) |
|-------------------------------------|-------|-------|---------------|------|-----|---|-----|---|-----------|
| Agamidae | | | | | | | | | |
| <i>Acanthosaura armata</i> | | | VN | | | | | | 185 |
| <i>Saara hardwickii</i> | | II | SI | 220 | | | | | |
| <i>Uromastyx dispar</i> | | II | TD, ML, US | | | | | | 1016 |
| <i>Uromastyx geyri</i> | | II | NE, BJ | | | | | | 967 |
| <i>Uromastyx ocellata</i> | LC | II | SD | | | | | | 7745 |
| <i>Uromastyx ornata</i> | LC | II | UA | 20 | | | | | |
| Alligatoridae | | | | | | | | | |
| <i>Alligator mississippiensis</i> | LR/lc | II | CH | 1 | | | | | 4 |
| <i>Caiman crocodilus</i> | LR/lc | II | GY, SR | | | | | | 2205 |
| <i>Caiman crocodilus crocodilus</i> | LR/lc | II | GY, SR | | | | | | 5251 |
| <i>Caiman crocodilus fuscus</i> | LR/lc | II | HK, CH, CO | 451 | | | | | |
| <i>Paleosuchus palpebrosus</i> | LR/lc | II | GY, US | | | | | | 240 |
| <i>Paleosuchus trigonatus</i> | LR/lc | II | GY | | | | | | 4 |
| Boidae | | | | | | | | | |
| <i>Boa constrictor</i> | | II | SR, GY, CZ | 2014 | 290 | | | | 1622 |
| <i>Calabaria reinhardtii</i> | | II | GH, TG | | | | | | 128 |
| <i>Candoia aspera</i> | | II | ID | | | | | | 155 |
| <i>Candoia carinata</i> | | II | ID | | | | | | 63 |
| <i>Candoia paulsoni</i> | | II | ID | | | | | | 12 |
| <i>Corallus caninus</i> | LC | II | SR, GY | 3 | 7 | | | | 1222 |
| <i>Corallus hortulanus</i> | LC | II | SR, GY | | | | | | 1490 |
| <i>Epicrates angulifer</i> | | II | CZ | 9 | | | | | |
| <i>Epicrates cenchria</i> | | II | CZ, GY, AR | 198 | 53 | | | | 229 |
| <i>Epicrates cenchria cenchria</i> | | II | GY | | | | | | 22 |
| <i>Epicrates maurus</i> | | II | CA, GY | 12 | | | | | 1 |
| <i>Eunectes murinus</i> | | II | GY, SR | | | | | | 74 |
| <i>Eunectes notaeus</i> | | II | CZ | 68 | | | | | |
| <i>Gongylophis colubrinus</i> | | II | CA | 17 | | | | | |
| <i>Gongylophis muelleri</i> | | II | GH | | | | | | 21 |
| <i>Lichanura trivirgata</i> | LC | II | CA | 24 | | | | | |
| Chamaeleonidae | | | | | | | | | |
| <i>Brookesia stumpffi</i> | LC | II | MG | | | | | | 157 |
| <i>Brookesia superciliaris</i> | LC | II | MG | | | | | | 156 |
| <i>Brookesia therezieni</i> | LC | II | MG | | | | | | 57 |
| <i>Brookesia thieli</i> | LC | II | MG | | | | | | 65 |
| <i>Calumma parsonii</i> | NT | II | UA | 86 | | | | | |
| <i>Chamaeleo africanus</i> | LC | II | NE, SD | | | | | | 238 |
| <i>Chamaeleo calyptratus</i> | LC | II | CZ, UA | 160 | | | | | |
| <i>Chamaeleo dilepis</i> | LC | II | TZ, UG, MZ | | | | | | 2986 |
| <i>Chamaeleo gracilis</i> | LC | II | TZ, TG, BJ | | | | 329 | | 519 |
| <i>Chamaeleo senegalensis</i> | LC | II | GH, BJ, TG | | | | 805 | | 503 |
| <i>Furcifer balteatus</i> | EN | II | UA | 7 | | | | | |
| <i>Furcifer campani</i> | VU | II | MG | | | | | | 9 |
| <i>Furcifer cephalolepis</i> | LC | II | MG, KM | | | | | | 40 |
| <i>Furcifer lateralis</i> | LC | II | MG | | | | | | 1787 |
| <i>Furcifer oustaleti</i> | LC | II | MG, XX | | | | | | 837 |
| <i>Furcifer pardalis</i> | LC | II | MG, XX, UA | 8 | | | | | 1106 |
| <i>Furcifer verrucosus</i> | LC | II | MG, XX | | | | | | 724 |
| <i>Kinyongia fischeri</i> | NT | II | TZ | | | | | | 2099 |
| <i>Kinyongia tavetana</i> | NT | II | TZ | | | | | | 1463 |

| | | | | | | | | | |
|----------------------------------|----|----|------------|------|--|--|--|---|------|
| <i>Kinyongia xenorhina</i> | NT | II | UG | | | | | | 349 |
| <i>Trioceros bitaeniatus</i> | LC | II | TZ, UG | | | | | | 1401 |
| <i>Trioceros cristatus</i> | LC | II | CM | | | | | | 480 |
| <i>Trioceros ellioti</i> | LC | II | UG | | | | | | 727 |
| <i>Trioceros fuelleborni</i> | LC | II | TZ | 16 | | | | | 243 |
| <i>Trioceros hoehnelii</i> | LC | II | KE, UG | 1449 | | | | | 1123 |
| <i>Trioceros jacksonii</i> | LC | II | UG | 1747 | | | | | 435 |
| <i>Trioceros johnstoni</i> | LC | II | UG | | | | | | 866 |
| <i>Trioceros melleri</i> | LC | II | TZ, MZ | | | | | | 2374 |
| <i>Trioceros montium</i> | NT | II | CM | | | | | | 641 |
| <i>Trioceros oweni</i> | LC | II | CM | | | | | | 36 |
| <i>Trioceros quadricornis</i> | VU | II | CM | | | | | | 290 |
| <i>Trioceros rudis</i> | LC | II | TZ | | | | | | 627 |
| Colubridae | | | | | | | | | |
| <i>Elaphe radiata</i> | | | ID, BR, MY | | | | | | 23 |
| <i>Ptyas mucosus</i> | | II | ID | | | | | | 72 |
| Cordylidae | | | | | | | | | |
| <i>Cordylus rhodesianus</i> | | II | MZ, US | | | | | | 219 |
| <i>Cordylus tropidosternum</i> | | II | TZ, MZ | | | | | | 2398 |
| <i>Smaug mossambicus</i> | | II | MZ, ID | | | | | | 85 |
| <i>Smaug warreni</i> | LC | II | MZ | | | | | | 125 |
| Elapidae | | | | | | | | | |
| <i>Naja kaouthia</i> | LC | II | US | 1 | | | | | |
| <i>Naja oxiana</i> | DD | II | US | 5 | | | | | |
| <i>Naja siamensis</i> | VU | II | CH | 3 | | | | | |
| <i>Naja sputatrix</i> | LC | II | CH | | | | | | 2 |
| <i>Naja sumatrana</i> | LC | II | US, CH | 17 | | | | | |
| <i>Ophiophagus hannah</i> | VU | II | ID | 8 | | | | | 6 |
| Emydidae | | | | | | | | | |
| <i>Trachemys scripta elegans</i> | | | ZA, SX | 1 | | | | 1 | |
| Gekkonidae | | | | | | | | | |
| <i>Correlophus ciliatus</i> | VU | | US | 6 | | | | | |
| <i>Phelsuma comorensis</i> | LC | II | MG, KM | | | | | | 30 |
| <i>Phelsuma dubia</i> | LC | II | TZ, MG | | | | | | 1293 |
| <i>Phelsuma grandis</i> | LC | II | MG | | | | | | 170 |
| <i>Phelsuma kochi</i> | LC | II | MG | | | | | | 60 |
| <i>Phelsuma laticauda</i> | LC | II | MG, KM | | | | | | 3052 |
| <i>Phelsuma lineata</i> | LC | II | MG | | | | | | 1823 |
| <i>Phelsuma madagascariensis</i> | LC | II | MG | | | | | | 1407 |
| <i>Phelsuma parkeri</i> | LC | II | TZ | | | | | | 1100 |
| <i>Phelsuma quadriocellata</i> | LC | II | MG | | | | | | 2075 |
| <i>Phelsuma v-nigra</i> | LC | II | KM, MG | | | | | | 170 |
| <i>Uroplatus ebenau</i> | VU | II | US | 26 | | | | | 10 |
| <i>Uroplatus fimbriatus</i> | LC | II | MG, UA | 2 | | | | | 14 |
| <i>Uroplatus finiavana</i> | NT | II | UA | 8 | | | | | |
| <i>Uroplatus giganteus</i> | VU | II | UA | 10 | | | | | |
| <i>Uroplatus henkeli</i> | VU | II | MG, UA | 4 | | | | | 10 |
| <i>Uroplatus lineatus</i> | LC | II | MG | | | | | | 10 |
| <i>Uroplatus phantasticus</i> | LC | II | UA, MG | 41 | | | | | 16 |
| <i>Uroplatus pietschmanni</i> | EN | II | UA | 3 | | | | | |
| <i>Uroplatus sameiti</i> | LC | II | UA | 13 | | | | | |
| <i>Uroplatus sikorae</i> | LC | II | MG, UA | 48 | | | | | 52 |
| <i>Uroplatus spp.</i> | | II | MG | | | | | | 60 |

| | | | | | | | |
|---------------------------------|----|-----|------------|-------|------|-------|------|
| Geoemydidae | | | | | | | |
| <i>Cuora amboinensis</i> | VU | II | ID | | | | 288 |
| <i>Heosemys spinosa</i> | EN | II | GB | 12 | | | |
| Helodermatidae | | | | | | | |
| <i>Heloderma suspectum</i> | NT | II | US | 44 | | | |
| Iguanidae | | | | | | | |
| <i>Iguana iguana</i> | LC | II | SV, US, SR | 41086 | 1 | | 3732 |
| Pelomedusidae | | | | | | | |
| <i>Pelomedusa subrufa</i> | | III | GH, TG | | | | 55 |
| <i>Pelusios castaneus</i> | | III | GH | | | | 30 |
| <i>Pelusios niger</i> | | III | TG | | | | 25 |
| Podocnemididae | | | | | | | |
| <i>Podocnemis unifilis</i> | VU | II | PE | 100 | | | |
| Pythonidae | | | | | | | |
| <i>Antaresia childreni</i> | LC | II | CA | 8 | | | |
| <i>Antaresia maculosa</i> | LC | II | CA | 10 | | | |
| <i>Apodora papuana</i> | | II | ID | | | | 12 |
| <i>Aspidites melanocephalus</i> | LC | II | US, CA | 3 | 8 | | |
| <i>Leiopython albertisii</i> | | II | ID | | | | 143 |
| <i>Liasis fuscus</i> | LC | II | ID | | | | 2 |
| <i>Liasis mackloti</i> | | II | ID | | | | 16 |
| <i>Liasis olivaceus</i> | LC | II | ID | | | | 2 |
| <i>Malayopython reticulatus</i> | | II | ID, US, CZ | 172 | | | 204 |
| <i>Morelia spilota</i> | LC | II | US, ID | 4 | 2 | | 5 |
| <i>Morelia viridis</i> | LC | II | ID, US | 575 | 48 | | |
| <i>Python bivittatus</i> | VU | II | CZ, VN, US | 1867 | | | |
| <i>Python breitensteini</i> | LC | II | ID, US | 14 | | | 40 |
| <i>Python brongersmai</i> | LC | II | ID, US | 27 | | | 124 |
| <i>Python curtus</i> | LC | II | ID, US | 6 | 6 | | 132 |
| <i>Python molurus</i> | | II | US | 6 | | | |
| <i>Python regius</i> | LC | II | TG, GH, US | 1192 | 52 | 18524 | 740 |
| <i>Python sebae</i> | | II | BJ, TZ, GH | 2 | | 75 | 60 |
| <i>Simalia amethistina</i> | LC | II | ID | | | | 55 |
| <i>Simalia clastolepis</i> | | II | CA | 14 | | | |
| <i>Simalia nauta</i> | | II | CH | | 1 | | 1 |
| Scincidae | | | | | | | |
| <i>Tiliqua scincoides</i> | LC | | ID | | | | 52 |
| <i>Tribolonotus gracilis</i> | LC | | ID, US | | | | 33 |
| Teiidae | | | | | | | |
| <i>Dracaena guianensis</i> | | II | PE | 41 | | | |
| <i>Salvator merianae</i> | LC | II | AR, US, CH | 1038 | 90 | | 50 |
| <i>Salvator rufescens</i> | | II | AR, CH | 540 | | | 1 |
| <i>Tupinambis teguixin</i> | | II | GY | | | | 467 |
| Testudinidae | | | | | | | |
| <i>Aldabrachelys gigantea</i> | | II | MU, US | 4 | 11 | | |
| <i>Centrochelys sulcata</i> | VU | II | US, ML, GH | 30 | 370 | | |
| <i>Chelonoidis carbonarius</i> | | II | SR, BR, BB | 2263 | 1187 | | 1266 |
| <i>Chelonoidis chilensis</i> | VU | II | AR | 263 | | | |
| <i>Chelonoidis denticulatus</i> | | II | SR, GY, PE | | 100 | | 585 |
| <i>Geochelone elegans</i> | VU | II | SI, UA | 30 | | | |
| <i>Geochelone platynota</i> | CR | II | US | | 6 | | |
| <i>Homopus areolatus</i> | LC | II | NA, ZA | 4 | | | 1 |
| <i>Indotestudo elongata</i> | EN | II | MY | | | | 150 |

| | | | | | | | | |
|-------------------------------|----|----|------------|------|-------|------|-----|------|
| <i>Kinixys belliana</i> | | II | TG, GH | | | 754 | | 176 |
| <i>Kinixys erosa</i> | DD | II | GH, TG | | | 25 | | 55 |
| <i>Kinixys homeana</i> | VU | II | TG, GH | | | 441 | | 96 |
| <i>Stigmochelys pardalis</i> | LC | II | TZ, ZM, KE | 5657 | 14345 | | 200 | 2276 |
| <i>Testudinidae spp.</i> | | II | MC | | | | 1 | |
| <i>Testudo graeca</i> | VU | II | JO, UA, US | 135 | 1 | | | |
| <i>Testudo hermanni</i> | NT | II | SI | 1288 | | | | |
| <i>Testudo horsfieldii</i> | VU | II | UZ, US, UA | 40 | 552 | 6500 | | 2900 |
| Trionychidae | | | | | | | | |
| <i>Pelochelys bibroni</i> | EN | II | ID | | | | | 6 |
| Varanidae | | | | | | | | |
| <i>Varanus acanthurus</i> | LC | II | CA | 20 | | | | |
| <i>Varanus albigularis</i> | | II | TZ, MZ | | | | | 285 |
| <i>Varanus doreanus</i> | LC | II | ID | | | | | 58 |
| <i>Varanus exanthematicus</i> | LC | II | GH, TG, US | | | 1110 | | 2418 |
| <i>Varanus glauerti</i> | LC | II | CA | 3 | | | | |
| <i>Varanus gouldii</i> | LC | II | CA, ID, US | 6 | 13 | | | |
| <i>Varanus indicus</i> | LC | II | ID | 11 | | | | 8 |
| <i>Varanus melinus</i> | | II | US | | 6 | | | |
| <i>Varanus niloticus</i> | | II | TG, TZ, CH | | | | | 1473 |
| <i>Varanus pilbarensis</i> | LC | II | CA | 37 | | | | |
| <i>Varanus prasinus</i> | LC | II | ID | 36 | | | | |
| <i>Varanus rudicollis</i> | | II | ID | | | | | 339 |
| <i>Varanus salvator</i> | LC | II | ID, HK | | | | | 1142 |
| <i>Varanus tristis</i> | LC | II | CA | 15 | | | | |
| Xenopeltidae | | | | | | | | |
| <i>Xenopeltis unicolor</i> | LC | | MY, ID | | | | | 9 |

ANNEX II – EXPORT OF LIVE REPTILES 2000-2017

| | IUCN | CITES | Main Importer | C | F | I | O | R | U | W |
|-------------------------------------|-------|-------|---------------|-----|----|---|---|---|----|---|
| Agamidae | | | | | | | | | | |
| <i>Saara loricata</i> | LC | II | JP, US | 26 | | | | | | |
| <i>Uromastyx acanthinura</i> | | II | US | 2 | | | | | | |
| <i>Uromastyx ornata</i> | LC | II | CA, CH, US | 26 | | | | | | |
| <i>Uromastyx princeps</i> | | II | JP, US | 53 | | | | | | |
| <i>Uromastyx thomasi</i> | VU | II | NO, CH, IS | 144 | 16 | | | | | |
| Alligatoridae | | | | | | | | | | |
| <i>Alligator mississippiensis</i> | LR/lc | II | CH, IS, US | 34 | | | | | | 1 |
| <i>Caiman crocodilus fuscus</i> | LC | II | NO, CH | 4 | | | | | 40 | |
| Boidae | | | | | | | | | | |
| <i>Acrantophis dumerili</i> | LC | I | CA | 8 | | | | | | |
| <i>Acrantophis madagascariensis</i> | LC | I | CA | 7 | | | | | | |
| <i>Boa constrictor</i> | | II | US, JP, NO | 186 | | | | | | 7 |
| <i>Corallus batesii</i> | | II | JP | 5 | | | | | | |
| <i>Corallus caninus</i> | LC | II | US | 4 | | | | | | 2 |
| <i>Corallus hortulanus</i> | LC | II | KR | 8 | | | | | | |

| | | | | | | | |
|----------------------------------|-------|-----|------------|------|----|----|--|
| <i>Corallus ruschenbergerii</i> | LC | II | JP | 7 | | | |
| <i>Epicrates cenchria</i> | | II | CA, AE | 11 | | | |
| <i>Epicrates striatus</i> | | II | JP | | 11 | | |
| <i>Sanzinia madagascariensis</i> | LC | I | US, CA | 10 | | | |
| Chamaeleonidae | | | | | | | |
| <i>Bradypodion pumilum</i> | VU | II | JP, CA | 44 | | | |
| <i>Bradypodion thamnobates</i> | VU | II | CA | 2 | | | |
| <i>Calumma parsonii</i> | NT | II | US | 6 | | | |
| <i>Chamaeleo calyptratus</i> | LC | II | HK, US | 2405 | | | |
| <i>Furcifer pardalis</i> | LC | II | TW, US, KR | 77 | 60 | | |
| <i>Trioceros hoehnelii</i> | LC | II | US, JP | 102 | | | |
| <i>Trioceros jacksonii</i> | LC | II | JP, US | 144 | | | |
| <i>Trioceros johnstoni</i> | LC | II | US | | | 16 | |
| Cheloniidae | | | | | | | |
| <i>Cheloniidae spp.</i> | | I | CH | | 1 | | |
| Colubridae | | | | | | | |
| <i>Hydrodynastes gigas</i> | | II | CA, JP, US | 41 | | | |
| Cordylidae | | | | | | | |
| <i>Ouroborus cataphractus</i> | LC | II | TW | 9 | | | |
| Elapidae | | | | | | | |
| <i>Naja atra</i> | VU | II | US | 2 | | | |
| <i>Naja kaouthia</i> | LC | II | ID | 6 | | | |
| <i>Naja naja</i> | | II | US | 2 | | | |
| Emydidae | | | | | | | |
| <i>Clemmys guttata</i> | EN | II | TW | 32 | | | |
| <i>Terrapene carolina</i> | VU | II | TW, HK | 147 | | | |
| <i>Terrapene ornata</i> | NT | II | TW | 7 | | | |
| <i>Trachemys scripta elegans</i> | | N | XX, ZA, SR | 2 | 5 | 1 | |
| Gekkonidae | | | | | | | |
| <i>Naultinus elegans</i> | | II | CA | 2 | | | |
| <i>Naultinus grayii</i> | | II | US, CA | 4 | | | |
| <i>Phelsuma astriata</i> | LC | II | US | 15 | | | |
| <i>Phelsuma borbonica</i> | | II | JP | 6 | | | |
| <i>Phelsuma breviceps</i> | VU | II | JP | 4 | | | |
| <i>Phelsuma cepediana</i> | LC | II | US | 319 | | | |
| <i>Phelsuma grandis</i> | LC | II | AE | 2 | | | |
| <i>Phelsuma guimbeaui</i> | | II | US | 296 | | | |
| <i>Phelsuma klemmeri</i> | EN | II | US | 25 | | | |
| <i>Phelsuma madagascariensis</i> | LC | II | JP | 12 | | | |
| <i>Phelsuma ornata</i> | | II | US | 370 | | | |
| <i>Phelsuma standingi</i> | VU | II | JP | 8 | | | |
| <i>Uroplatus pietschmanni</i> | EN | II | US | 2 | | | |
| Geoemydidae | | | | | | | |
| <i>Cuora amboinensis</i> | VU | II | UA | | 5 | | |
| <i>Mauremys japonica</i> | LR/nt | II | TW | | 17 | | |
| Iguanidae | | | | | | | |
| <i>Iguana iguana</i> | LC | II | AE, CH, US | 1 | 1 | 1 | |
| Pelomedusidae | | | | | | | |
| <i>Pelusios niger</i> | | III | AW | 2 | | | |
| Pythonidae | | | | | | | |
| <i>Aspidites melanocephalus</i> | LC | II | JP, CA, US | 88 | | | |
| <i>Aspidites ramsayi</i> | LC | II | JP, TW | 4 | | | |
| <i>Liasis olivaceus</i> | LC | II | JP | 3 | | | |

| | | | | | | | |
|-----------------------------------|----|----|------------|------|----|------|------|
| <i>Malayapython reticulatus</i> | | II | CA, SA, JP | 23 | | | 11 |
| <i>Morelia bredli</i> | LC | II | US | 18 | | | |
| <i>Morelia spilota</i> | LC | II | TW, US | 73 | | | |
| <i>Morelia viridis</i> | LC | II | US | 29 | | | |
| <i>Python anchietae</i> | LC | II | JP, TW | 11 | | | |
| <i>Python bivittatus</i> | VU | II | JP, CA, AE | 159 | | | |
| <i>Python regius</i> | LC | II | US, KR, HK | 1648 | 79 | 1000 | 2 |
| <i>Simalia boeleni</i> | | II | US | 5 | | | |
| Teiidae | | | | | | | |
| <i>Dracaena guianensis</i> | | II | CA, CH | 15 | 3 | | |
| <i>Salvator merianae</i> | LC | II | CA, US, CH | 63 | | | |
| Testudinidae | | | | | | | |
| <i>Aldabrachelys gigantea</i> | | II | CN | 4 | 4 | | |
| <i>Centrochelys sulcata</i> | VU | II | KR, MO, AW | 73 | | | |
| <i>Chelonoidis carbonarius</i> | | II | HK, AE, US | 68 | 1 | | 30 |
| <i>Chelonoidis denticulatus</i> | | II | AE, AW | 1 | | | 46 |
| <i>Geochelone platynota</i> | CR | II | HK | 4 | | | |
| <i>Kinixys belliana</i> | | II | AW | 1 | | 2 | |
| <i>Kinixys homeana</i> | VU | II | AW | | | 2 | |
| <i>Malacochersus tornieri</i> | VU | II | US | 1 | | | |
| <i>Manouria emys</i> | EN | II | AW | 2 | | | |
| <i>Stigmochelys pardalis</i> | LC | II | AW | | | | 2 |
| <i>Testudo graeca</i> | | II | US | 2 | | | 2 |
| <i>Testudo hermanni</i> | NT | II | JP, AW | 21 | | | |
| <i>Testudo horsfieldii</i> | | II | US, KR, CL | 1 | | 1 | 1219 |
| <i>Testudo marginata</i> | LC | II | JP | 54 | | | |
| Varanidae | | | | | | | |
| <i>Varanus acanthurus</i> | LC | II | KR, TW, CA | 104 | | | |
| <i>Varanus caudolineatus</i> | LC | II | CA | 2 | | | |
| <i>Varanus cumingi</i> | LC | II | US, KR | 10 | | | |
| <i>Varanus gilleni</i> | LC | II | US | 24 | | | |
| <i>Varanus glauerti</i> | LC | II | US, CH, CA | 34 | | | |
| <i>Varanus gouldii</i> | LC | II | CA | | 1 | | |
| <i>Varanus kingorum</i> | LC | II | US, TW | 30 | | | |
| <i>Varanus mertensi</i> | EN | II | US, JP, KR | 11 | | | |
| <i>Varanus pilbarensis</i> | LC | II | CA, TW, US | 9 | | | |
| <i>Varanus primordius</i> | LC | II | JP | 11 | | | |
| <i>Varanus rudicollis</i> | | II | US | 1 | | | |
| <i>Varanus salvator</i> | LC | II | US, CA | 10 | | | |
| <i>Varanus spenceri</i> | | II | JP, CA | 5 | | | |
| <i>Varanus storri</i> | LC | II | US, TW | 8 | | | |
| <i>Varanus tristis</i> | LC | II | CH, US | 7 | | | |
| <i>Varanus varius</i> | | II | US, TW | 12 | | | |
| Viperidae | | | | | | | |
| <i>Trimeresurus mangshanensis</i> | | II | US | 7 | | | |
| Xenosauridae | | | | | | | |
| <i>Shinisaurus crocodilurus</i> | EN | II | US, CA | 41 | | | |

ANNEX III – EXPORT TO THE NETHERLANDS
TO THE UNITED STATES (LEMIS)

| | IUCN | CITES | C | F | R | U | W |
|----------------------------|------|-------|------|---|---|---|-----|
| AGAMIDAE | | | | | | | |
| Chlamydosaurus kingii | LC | | 13 | | | | |
| Hypsilurus spp. | | | 4 | | | | |
| Laudakia spp. | | | 2 | | | | |
| Lophosaurus dilophus | LC | | 35 | | | | |
| Pogona barbata | LC | | 7 | | | | |
| Pogona henrylawsoni | LC | | 7 | | | | 79 |
| Pogona minor | LC | | 20 | | | | |
| Pogona spp. | | | 100 | | | | 155 |
| Pogona vitticeps | LC | | 3547 | | | | 550 |
| Uromastyx thomasi | VU | II | 27 | | | | |
| Xenagama taylori | | | 6 | | | | |
| ANGUIDEA | | | | | | | |
| Abronia spp. | | | 2 | | | | |
| BOIDAE | | | | | | | |
| Boa constrictor | | II | 13 | | | | 7 |
| Corallus caninus | LC | II | 5 | | | | 2 |
| Sanzinia madagascariensis | LC | I | 6 | | | | |
| CARETTOCHELYIDAE | | | | | | | |
| Carettochelys insculpta | VU | II | | | | 3 | |
| CARPHODACTYLIDAE | | | | | | | |
| Nephurus wheeleri | LC | | 8 | | | | |
| Phyllurus amnicola | NT | | 4 | | | | |
| Underwoodisaurus milii | LC | | 23 | | | | |
| CHAMAELEONIDAE | | | | | | | |
| Chamaeleo calypttratus | LC | II | 93 | | | | |
| Rhampholeon acuminatus | CR | II | | | | | 25 |
| Rhampholeon breviceaudata | | II | | | | | 4 |
| Rhampholeon spp. | | II | | | | | 4 |
| Rhampholeon temporalis | EN | II | | | | | 8 |
| CHELLIDAE | | | | | | | |
| Chelus fimbriata | | | 130 | | | | |
| Phrynops spp. | | | 4 | | | | |
| COLUBRIDAE | | | | | | | |
| Coelognathus radiatus | LC | | 2 | | | | |
| Elaphe moellendorffi | | | 2 | | | | |
| Elaphe quatuorlineata | NT | | 1 | | | | |
| Elaphe spp. | | | 4 | | | | |
| Elaphe taeniura | | | 38 | | | | |
| Euprepiophis conspicillata | LC | | 2 | | | | |
| Euprepiophis mandarina | | | 3 | | | | |
| Gonyosoma frenatum | | | 2 | | | | |
| Gonyosoma oxycephalum | LC | | | 3 | | | |
| Lampropeltis spp. | | | 2 | | | | |
| Lampropeltis triangulum | | | 13 | | | | |
| Oreocryptophis porphyracea | | | 250 | | | | 36 |
| Pantherophis bairdi | LC | | 2 | | | | |
| Pantherophis guttatus | LC | | 1123 | | | | |
| Thamnophis eques | LC | | 24 | | | | |
| Thamnophis hammondi | | | 2 | | | | |

| | | | | |
|---------------------------------|----|----|-----|-----|
| Thamnophis melanogaster | EN | | 8 | |
| Thamnophis sirtalis | LC | | 2 | |
| Thamnophis sirtalis tetrataenia | | | 10 | |
| Zamenis situla | LC | | 2 | |
| CORYTOPHANIDAE | | | | |
| Laemactus serratus | LC | | 1 | |
| DACTYLOIDAE | | | | |
| Anolis barbatus | | | 15 | |
| Anolis equestris | | | | 5 |
| Anolis porcus | | | 9 | |
| Anolis smallwoodi | | | | 1 |
| Anolis spp. | | | 8 | 56 |
| DIPLODACTYLIDAE | | | | |
| Bavayia montana | DD | | 1 | |
| Correlophus ciliatus | VU | | 35 | |
| Correlophus sarasinorum | VU | | 9 | |
| Mniarogekko chahoua | VU | | | 3 |
| Rhacodactylus leachianus | LC | | 37 | |
| Rhacodactylus trachyrhynchus | EN | | 2 | |
| DIPSADIDAE | | | | |
| Heterodon nasicus | LC | | 454 | 326 |
| ELAPIDAE | | | | |
| Naja spp. | | | 41 | 11 |
| EMYDIDAE | | | | |
| Trachemys spp. | | | 4 | |
| EUBLEPHARIDAE | | | | |
| Coleonyx spp. | | | | 9 |
| Eublepharus macularius | | | 2 | 20 |
| GEKKONIDAE | | | | |
| Cnemaspis spp. | | | 2 | |
| Paroedura spp. | | | | 22 |
| Phelsuma cepediana | LC | II | 169 | 100 |
| Phelsuma guimbeaui | | II | 192 | 50 |
| Phelsuma ornata | | II | 220 | 100 |
| Phelsuma quadriocellata | LC | II | 20 | |
| GEOEMYDIDAE | | | | |
| Cuora trifasciata | CR | II | 1 | |
| HELODERMATIDAE | | | | |
| Heloderma horridum | LC | II | 5 | |
| IGUANIDAE | | | | |
| Ctenosaura spp. | | | 11 | |
| Iguana iguana | LC | II | | 1 |
| LACERTIDAE | | | | |
| Gastropholis prasina | NT | | 9 | |
| Lacerta spp. | | | 64 | |
| Podarcis spp. | | | | 26 |
| Timon lepidus | NT | | 368 | |
| Timon spp. | | | 63 | |
| LAMPROPHIIDAE | | | | |
| Boaedon fuliginosus | | | 2 | |
| Pseudaspis cana | | | 4 | |
| LEIOCEPHALIDAE | | | | |
| Leiocephalus spp. | | | | 6 |

| | | | | | |
|----------------------------------|----|----|--|-----|------|
| PHRYNOSOMATIDAE | | | | | |
| <i>Petrosaurus thalassinus</i> | LC | | | 23 | |
| PHYLLODACTYLIDAE | | | | | |
| <i>Tarentola chazaliae</i> | VU | | | 330 | |
| PYTHONIDAE | | | | | |
| <i>Aspidites melanocephalus</i> | LC | II | | 7 | |
| <i>Morelia spilota</i> | LC | II | | 32 | |
| <i>Morelia spilota variegata</i> | LC | II | | 15 | |
| <i>Morelia viridis</i> | LC | II | | 14 | |
| <i>Python bivittatus</i> | VU | II | | 150 | |
| <i>Python regius</i> | LC | II | | 10 | 2000 |
| SCINCIDAE | | | | | |
| <i>Egernia spp.</i> | | | | 1 | |
| <i>Tiliqua multifasciata</i> | LC | | | 2 | |
| <i>Tiliqua nigrolutea</i> | LC | | | 6 | |
| <i>Tiliqua occipitalis</i> | LC | | | 2 | |
| <i>Tiliqua rugosa</i> | LC | | | 4 | |
| <i>Tiliqua spp.</i> | | | | 6 | |
| SHINISAUROIDAE | | | | | |
| <i>Shinisaurus crocodilurus</i> | EN | I | | 51 | |
| SPAERODACTYLIDAE | | | | | |
| <i>Sphaerodactylus spp.</i> | | | | 1 | |
| TEIIDAE | | | | | |
| <i>Salvator merianae</i> | LC | II | | 10 | |
| TESTUDINIDAE | | | | | |
| <i>Chelonoidis carbonarius</i> | | II | | 7 | |
| <i>Kinixys belliana</i> | | II | | 1 | |
| <i>Malacochersus tornieri</i> | VU | II | | 1 | |
| <i>Testudo hermanni</i> | NT | II | | 4 | |
| <i>Testudo horsfieldii</i> | VU | II | | 1 | 950 |
| VARANIDAE | | | | | |
| <i>Varanus acanthurus</i> | LC | II | | 14 | |
| <i>Varanus cumingi</i> | LC | II | | 3 | |
| <i>Varanus gilleni</i> | LC | II | | 17 | |
| <i>Varanus glauerti</i> | LC | II | | 25 | |
| <i>Varanus kingorum</i> | LC | II | | 28 | |
| <i>Varanus mertensi</i> | EN | II | | 5 | |
| <i>Varanus pilbarensis</i> | LC | II | | 2 | |
| <i>Varanus storri</i> | LC | II | | 6 | |
| <i>Varanus tristis</i> | LC | II | | 3 | |
| VIPERIDAE | | | | | |
| <i>Atheris spp.</i> | | | | 6 | |
| <i>Cerastes cerastes</i> | | | | 15 | |
| <i>Crotalus basilicus</i> | | | | 11 | |
| <i>Crotalus mitchellii</i> | LC | | | 9 | |
| <i>Crotalus molosus</i> | | | | | 3 |
| <i>Crotalus spp.</i> | | | | 4 | |
| <i>Crotalus vegrandis</i> | | | | 21 | |
| <i>Montivipera latifii</i> | EN | | | 4 | |
| <i>Montivipera raddei</i> | NT | | | 1 | |
| <i>Montivipera wagneri</i> | CR | II | | 2 | |
| <i>Trimeresurus spp.</i> | | | | 9 | |
| <i>Vipera ammodytes</i> | LC | | | 20 | |

| | | | |
|--------------------|-----|----|----|
| <i>Vipera spp.</i> | 31 | | |
| NON-CITES | | | |
| <i>Non-cites</i> | 277 | 72 | 12 |

ANNEX IV – ONLINE SURVEY

| | IUCN | CITES | Facebook | Marktplaats.nl | Shops | Terraristik.com |
|-----------------------------------|-------|-------|----------|----------------|-------|-----------------|
| AGAMIDAE | | | | | | |
| <i>Acanthosaura capra</i> | | | | | 4 | |
| <i>Acanthosaura crucigera</i> | | | | 2 | | |
| <i>Chlamydosaurus kingii</i> | LC | | 8 | 2 | | 1 |
| <i>Gonocephalus grandis</i> | LC | | | 1 | | |
| <i>Hydrosaurus amboinensis</i> | | | 13 | | | |
| <i>Hydrosaurus pustulatus</i> | VU | | 2 | | | |
| <i>Hydrosaurus weberi</i> | | | 14 | | | 4 |
| <i>Intellagama lesueurii</i> | LC | | | 2 | | 1 |
| <i>Leiolepis belliana</i> | | | | 2 | | |
| <i>Physignathus cocincinus</i> | | | 2 | 2 | | |
| <i>Pogona henrylawsoni</i> | LC | | 22 | 31 | | 1 |
| <i>Pogona minor</i> | LC | | | 1 | | |
| <i>Pogona vitticeps</i> | LC | | 13 | 170 | | |
| <i>Uromastyx geyri</i> | | II | | 2 | | |
| <i>Uromastyx nigriventis</i> | | | 4 | | | 5 |
| <i>Uromastyx ornata</i> | LC | II | 20 | 2 | | |
| <i>Xenagama taylori</i> | | | | 1 | | |
| ALLIGATORIDAE | | | | | | |
| <i>Caiman crocodilus</i> | LR/lc | II | 6 | | | |
| <i>Caiman latirostris</i> | LR/lc | I/II | | | | 4 |
| <i>Paleosuchus palpebrosus</i> | LR/lc | II | | 2 | | |
| ANGUIDAE | | | | | | |
| <i>Abronia campbelli</i> | CR | I | 2 | | | |
| <i>Abronia taeniata</i> | EN | II | 2 | | | |
| <i>Abronia graminea</i> | VU | II | 9 | | | |
| BOIDAE | | | | | | |
| <i>Acanthrophis dumerili</i> | LC | I | 8 | 2 | | |
| <i>Boa constrictor</i> | | II | 39 | 29 | 1 | 5 |
| <i>Boa constrictor amarali</i> | | II | 5 | | | |
| <i>Boa imperator</i> | | II | 114 | 35 | | |
| <i>Corallus hortulanus</i> | LC | II | 3 | 3 | | |
| <i>Epicrates cenchria</i> | | II | 45 | 38 | | |
| <i>Eunectes murinus</i> | | II | | 2 | | |
| <i>Eunectes notaeus</i> | | II | 1 | 2 | | 1 |
| <i>Gongylophis colubrinus</i> | | II | 9 | 1 | | |
| <i>Sanzinia madagascariensis</i> | LC | I | 7 | 7 | | |
| CARPHODACTYLIDAE | | | | | | |
| <i>Nephurus deleani</i> | LC | | | | | 7 |
| <i>Nephurus levis pilbarensis</i> | | | 1 | | | 2 |

| | | | | | | |
|--|-------|-----|----|----|----|----|
| <i>Nephrurus stellatus</i> | LC | | | | | 11 |
| <i>Nephrurus vertebralis</i> | LC | | | | | 2 |
| <i>Nephrurus wheeleri</i> | LC | | | 2 | | |
| <i>Nephrurus wheeleri cinctus</i> | LC | | | | | 1 |
| <i>Nephrurus wheeleri wheeleri</i> | LC | | | | | 6 |
| <i>Saltuarius wyberba</i> | LC | | | | | 2 |
| CHAMAELEONIDAE | | | | | | |
| <i>Chamaeleo calypttratus</i> | LC | II | 22 | 9 | | 2 |
| <i>Furcifer pardalis</i> | LC | II | 13 | 9 | | |
| <i>Trioceros hoehnelii</i> | LC | II | 8 | 5 | | 8 |
| CHELIDAE | | | | | | |
| <i>Chelodina oblonga</i> | LR/nt | | | 1 | | |
| <i>Emydura subglobosa</i> | LR/lc | | | 5 | | |
| CHELYDRIDAE | | | | | | |
| <i>Chelydra serpentina</i> | LC | III | | 7 | | |
| <i>Macrochelys temminckii</i> | VU | III | 2 | 2 | | 2 |
| COLUBRIDAE | | | | | | |
| <i>Boiga drapiezii</i> | LC | | 1 | | | |
| <i>Chrysopelea paradisi</i> | LC | | 1 | | | |
| <i>Coelognathus flavolineatus</i> | LC | | 2 | | | |
| <i>Coelognathus helena</i> | | | 10 | | | |
| <i>Crotaphopeltis hotamboeia</i> | | | | | 10 | |
| <i>Dipsadoboa aulica</i> | | | | | 1 | |
| <i>Elaphe anomala</i> | | | 11 | | | |
| <i>Elaphe carinata</i> | | | | | | 1 |
| <i>Elaphe climacophora</i> | LC | | 13 | | | |
| <i>Elaphe davidi</i> | | | 4 | | | |
| <i>Elaphe dione</i> | LC | | | | | 1 |
| <i>Gonyosoma boulengeri</i> | | | | 1 | | |
| <i>Gonyosoma oxycephalum</i> | LC | | | 3 | | |
| <i>Heterodon kennerlyi</i> | | | 1 | | | |
| <i>Hydrodynastes gigas</i> | | | | | | 2 |
| <i>Lampropeltis abnorma</i> | | | | 4 | | |
| <i>Lampropeltis californiae</i> | | | 3 | 10 | 1 | 4 |
| <i>Lampropeltis getula</i> | LC | | | | | 7 |
| <i>Lampropeltis holbrooki</i> | | | 1 | | | |
| <i>Lampropeltis mexicana</i> | LC | | 2 | | | |
| <i>Lampropeltis polyzona</i> | | | 8 | | | 6 |
| <i>Lampropeltis thayeri</i> | | | 2 | | | |
| <i>Lampropeltis triangulum</i> | | | | | | 5 |
| <i>Lystrophis pulcher</i> | | | 8 | | | |
| <i>Nerodia fasciata</i> | LC | | 5 | | | |
| <i>Nerodia floridana</i> | LC | | 6 | | | |
| <i>Nerodia rhombifer</i> | LC | | 2 | | | |
| <i>Oligodon purpurascens</i> | LC | | 3 | | | |
| <i>Oreocryptophis porphyraceus coxi</i> | | | | 10 | | |
| <i>Oreocryptophis porphyraceus laticinctus</i> | | | | 1 | | |
| <i>Oreocryptophis porphyraceus pulcher</i> | | | 1 | 1 | | 2 |
| <i>Orthriophis moellendorfi</i> | | | | 1 | | |
| <i>Orthriophis taeniurus friesei</i> | | | | 1 | | |
| <i>Orthriophis teaniurus ridleyi</i> | | | 1 | | | |
| <i>Orthriophis teaniurus teaniurus</i> | | | 6 | | | |
| <i>Pantherophis bairdi</i> | LC | | | | | 6 |

| | | | | | | |
|--|-------|------|-----|---|----|----|
| <i>Pantherophis guttatus</i> | LC | 144 | 180 | 2 | | 15 |
| <i>Philothamnus semivariegatus</i> | | | | 5 | | |
| <i>Pituophis catenifer sayi</i> | LC | 6 | | | | |
| <i>Spilotes pullatus</i> | | 2 | | | | 2 |
| <i>Thamnophis cyrtopsis</i> | LC | 1 | | | | |
| <i>Thamnophis elegans terrestris</i> | LC | | 2 | | | |
| <i>Thamnophis eques obscurus</i> | LC | 1 | | | | |
| <i>Thamnophis proximus</i> | LC | 2 | | | | |
| <i>Thamnophis sauritus</i> | LC | | 8 | | | |
| <i>Thamnophis sirtalis infernalis</i> | LC | 1 | | | | 8 |
| <i>Thamnophis sirtalis pickeringii</i> | LC | | | | | 3 |
| <i>Zamenis situla</i> | LC | 3 | | | | |
| CORDYLIDAE | | | | | | |
| <i>Platysaurus broadleyi</i> | LC | | | | | 1 |
| <i>Platysaurus imperator</i> | VU | | | | 10 | |
| <i>Platysaurus intermedius</i> | LC | | | | 10 | |
| <i>Platysaurus maculatus</i> | | | | | 10 | |
| <i>Platysaurus torquatus</i> | LC | | | | 25 | |
| <i>Smaug mossambicus</i> | II | | 2 | | | |
| CORYTOPHANIDAE | | | | | | |
| <i>Basiliscus plumifrons</i> | LC | | 2 | | | |
| CROCODYLIDAE | | | | | | |
| <i>Crocodylus niloticus</i> | LR/lc | I/II | | 1 | | 1 |
| CROTAPHYTIDAE | | | | | | |
| <i>Crotaphytus collaris</i> | LC | 14 | 10 | | | |
| DACTYLOIDAE | | | | | | |
| <i>Anolis bartschi</i> | | | | | | 3 |
| <i>Anolis carolinensis</i> | LC | | 23 | | | |
| <i>Anolis equestris</i> | | | | | | 1 |
| <i>Anolis marmoratus</i> | | | | | | 3 |
| <i>Anolis marmoratus alliaceus</i> | | | | | | 2 |
| <i>Anolis marmoratus girafus</i> | | | 2 | | | |
| <i>Anolis pogus</i> | VU | | 1 | | | |
| <i>Anolis roquet summus</i> | | 2 | 5 | | | 1 |
| <i>Anolis sabanus</i> | | | 1 | | | |
| <i>Anolis sagrei</i> | | | 30 | | | |
| DIPLODACTYLIDAE | | | | | | |
| <i>Correlophus ciliatus</i> | VU | 75 | 92 | | | 20 |
| <i>Eurydactylodes agricolae</i> | NT | | | | | 2 |
| <i>Mniarogekko chahoua</i> | VU | 4 | 2 | | | 1 |
| <i>Oedura marmorata</i> | LC | 1 | | | | |
| <i>Rhacodactylus auriculatus</i> | LC | 9 | 3 | | | 3 |
| <i>Rhacodactylus leachianus</i> | LC | 4 | | | | |
| <i>Strophurus intermedius</i> | LC | | | | | 1 |
| <i>Strophurus spinigerus</i> | LC | | | | | 4 |
| <i>Strophurus taenicauda</i> | LC | | | | | 4 |
| DIPSADIDAE | | | | | | |
| <i>Heterodon nasicus</i> | LC | 24 | 8 | | | 19 |
| <i>Philodryas baroni</i> | LC | 19 | | | | |
| ELAPIDAE | | | | | | |
| <i>Aspidelaps lubricus</i> | | | | | | 6 |
| <i>Aspidelaps lubricus cowlesi</i> | | 2 | 2 | | | 2 |
| <i>Aspidelaps scutatus fulafula</i> | | | | 1 | | |

| | | | | | | |
|---|-------|-----|----|-----|----|----|
| <i>Dendroaspis viridis</i> | LC | | | | | 1 |
| <i>Naja arabica</i> | LC | | 2 | | | |
| <i>Naja atra</i> | VU | II | 2 | 1 | | |
| <i>Naja kaouthia</i> | LC | II | 2 | 2 | | |
| <i>Naja naja</i> | | II | 15 | | | |
| <i>Naja nivea</i> | | | 4 | | | |
| EMYDIDAE | | | | | | |
| <i>Clemmys guttata</i> | EN | II | 3 | | | 2 |
| <i>Emydidae</i> spp. | | | | 2 | | |
| <i>Emys orbicularis</i> | LR/nt | | | | | 2 |
| <i>Emys orbicularis galloitalica</i> | LR/nt | | | | | 2 |
| <i>Graptemys pseudogeographica</i> | LC | III | | 35 | | 1 |
| <i>Pseudemys concinna hieroglyphica</i> | LC | | | 21 | | |
| <i>Terrapene carolina</i> | VU | II | | | | 14 |
| <i>Terrapene carolina truinguis</i> | VU | II | | | | 4 |
| <i>Trachemys scripta</i> | LC | | 1 | 3 | | |
| <i>Trachemys scripta elegans</i> | LC | | | 9 | | |
| <i>Trachemys scripta scripta</i> | LC | | | 7 | | |
| <i>Trachemys scripta troostii</i> | LC | | | 4 | | |
| <i>Trachemys</i> spp. | | | | 12 | | |
| EUBLEPHARIDAE | | | | | | |
| <i>Aeluroscalabotes felinus</i> | | | | 3 | | 3 |
| <i>Coleonyx brevis</i> | LC | | | | | 2 |
| <i>Coleonyx mitratus</i> | LC | | | 3 | 1 | |
| <i>Coleonyx variegatus</i> | LC | | | | | 1 |
| <i>Eublepharis angramainyu</i> | DD | | 11 | | | |
| <i>Eublepharis fuscus</i> | LC | | 3 | | | |
| <i>Eublepharis hardwickii</i> | LC | | 28 | | | |
| <i>Eublepharis macularius</i> | | | 12 | 108 | | 1 |
| <i>Hemitheconyx caudicinctus</i> | LC | | 8 | 20 | | 2 |
| GEKKONIDAE | | | | | | |
| <i>Blaesodactylus sakalava</i> | LC | | 2 | | | |
| <i>Gekko auratus</i> | | | | 6 | | |
| <i>Gekko gecko</i> | | | | 4 | | 2 |
| <i>Hemidactylus frenatus</i> | LC | | | 13 | | |
| <i>Heteronotia binoei</i> | LC | | 5 | | | |
| <i>Homopholis wahlbergi</i> | | | | | 10 | |
| <i>Lygodactylus capensis</i> | | | | | 25 | |
| <i>Lygodactylus conraui</i> | | | | 2 | | 7 |
| <i>Lygodactylus kimhowelli</i> | | | | 1 | | |
| <i>Lygodactylus williamsi</i> | CR | I | 8 | 11 | | 10 |
| <i>Pachydactylus vansonii</i> | LC | | | | 1 | |
| <i>Paroedura picta</i> | LC | | 2 | | | |
| <i>Paroedura stumpffi</i> | LC | | 2 | | | |
| <i>Phelsuma dorsivittata</i> | NT | II | | | | 8 |
| <i>Phelsuma grandis</i> | LC | II | 2 | 11 | | 27 |
| <i>Phelsuma klemmeri</i> | EN | II | | | | 10 |
| <i>Phelsuma laticauda</i> | LC | II | | 9 | | |
| <i>Phelsuma lineata</i> | LC | II | | | | 4 |
| <i>Phelsuma pasteuri</i> | NT | II | | | | 5 |
| <i>Phelsuma quadriocellata</i> | LC | II | | 2 | | 4 |
| <i>Phelsuma standingi</i> | VU | II | 2 | | | |
| <i>Stenodactylus petrii</i> | | | | 4 | | |

| | | | | | | |
|---------------------------------------|-------|-----|----|----|---|----|
| <i>Uroplatus phantasticus</i> | LC | II | 8 | | | |
| <i>Uroplatus sikorae</i> | LC | II | 1 | | | |
| GEOEMYDIDAE | | | | | | |
| <i>Cuora bourreti</i> | CR | II | | | | 3 |
| <i>Cuora galbinifrons</i> | CR | II | | | | 3 |
| <i>Geoemyda spengleri</i> | EN | | | | | 2 |
| <i>Mauremys reevesii</i> | EN | III | | 11 | | |
| <i>Rhinoclemmys pulcherrima manni</i> | | | | 1 | 1 | |
| GERRHOSAURIDAE | | | | | | |
| <i>Gerrhosaurus flavigularis</i> | | | | | 5 | |
| <i>Gerrhosaurus major bottegoi</i> | | | | 1 | | |
| <i>Zonosaurus ornatus</i> | LC | | | 1 | | |
| <i>Zonosaurus quadrilineatus</i> | VU | | | 1 | | |
| HELODERMATIDAE | | | | | | |
| <i>Heloderma horridum exasperatum</i> | LC | II | | | | 1 |
| <i>Heloderma horridum horridum</i> | LC | II | 19 | | | |
| IGUANIDAE | | | | | | |
| <i>Ctenosaura clarki</i> | VU | | | | | 1 |
| <i>Ctenosaura pectinata</i> | | | 1 | | | |
| <i>Ctenosaura similis</i> | LC | | | | 1 | |
| <i>Iguana iguana</i> | LC | | 2 | 18 | | 3 |
| <i>Sauromalus ater</i> | LC | | 6 | 1 | | 2 |
| KINOSTERNIDAE | | | | | | |
| <i>Claudius angustatus</i> | LR/nt | | | | | 3 |
| <i>Sternotherus carinatus</i> | LC | | | 14 | | |
| <i>Sternotherus odoratus</i> | LC | | | 38 | | |
| <i>Sternotherus</i> spp. | | | | 6 | | |
| LACERTIDAE | | | | | | |
| <i>Darevskia unisexualis</i> | NT | | | | | 16 |
| <i>Gastropholis prasina</i> | NT | | | 3 | | 2 |
| <i>Lacerta billineata</i> | | | | | | 3 |
| <i>Lacerta pamphylica</i> | LC | | | | | 2 |
| <i>Lacerta trilineata</i> | LC | | | 2 | | 2 |
| <i>Podarcis siculus campestris</i> | LC | | | 6 | | 2 |
| <i>Podarcis siculus klemmeri</i> | LC | | | 1 | | |
| <i>Takydromus dorsalis</i> | EN | | | 9 | | |
| <i>Takydromus sexlineatus</i> | | | | 1 | | |
| <i>Timon lepidus</i> | NT | | | 14 | | 7 |
| <i>Timon pater</i> | LC | | | | | 2 |
| LAMPROHIIDAE | | | | | | |
| <i>Atractapsis</i> spp | | | | | 1 | |
| <i>Atractaspis irregularis</i> | LC | | | | 1 | |
| <i>Boaedon capensis</i> | | | 7 | | | |
| <i>Boaedon fuliginosus</i> | | | | 2 | | |
| <i>Boaedon lineatus</i> | | | | 2 | | |
| <i>Lycophidion semiannule</i> | | | | | 1 | |
| <i>Psammophis notostictus</i> | | | | | 5 | |
| <i>Xenocalamus bicolor</i> | | | | | 3 | |
| OPLURIDAE | | | | | | |
| <i>Chalarodon madagascariensis</i> | LC | | | | 1 | |
| PELOMEDUSIDAE | | | | | | |
| <i>Pelomedusa subrufa</i> | | | | 11 | | |
| <i>Pelusios castaneus</i> | | | | 2 | | |

| | | | | | |
|--------------------------------------|----|----|-----|-----|----|
| PHRYNOSOMATIDAE | | | | | |
| <i>Sceloporus malachiticus</i> | LC | | | 5 | |
| <i>Uta stansburiana</i> | LC | | | 2 | |
| PHYLLODACTYLIDAE | | | | | |
| <i>Ptyodactylus hasselquistii</i> | | | | 6 | |
| <i>Tarentola chazaliae</i> | VU | | 3 | | |
| PLATYSTERNIDAE | | | | | |
| <i>Platysternon megacephalum</i> | EN | I | | | 2 |
| PYTHONIDAE | | | | | |
| <i>Antaresia childreni</i> | LC | II | 4 | 5 | 9 |
| <i>Antaresia maculosa</i> | LC | II | 32 | | 35 |
| <i>Antaresia perthensis</i> | LC | II | | | 2 |
| <i>Antaresia stimsoni orientalis</i> | LC | II | 8 | 2 | 4 |
| <i>Aspidites ramsayi</i> | LC | II | 1 | | |
| <i>Malayopython reticulatus</i> | | II | 49 | 25 | 22 |
| <i>Morelia bredli</i> | LC | II | 3 | 1 | |
| <i>Morelia carinata</i> | | II | 2 | | |
| <i>Morelia spilota</i> | LC | II | 9 | 10 | |
| <i>Morelia spilota cheynei</i> | LC | II | 1 | 7 | |
| <i>Morelia spilota harrisoni</i> | LC | II | 5 | | |
| <i>Morelia spilota mcdowellii</i> | LC | II | 2 | | |
| <i>Morelia spilota variegata</i> | LC | II | 2 | 1 | |
| <i>Morelia viridis</i> | LC | II | 3 | 4 | 2 |
| <i>Python anchietae</i> | LC | II | 2 | 2 | |
| <i>Python bivittatus</i> | VU | II | 68 | 8 | 4 |
| <i>Python bivittatus progschai</i> | VU | II | 1 | | |
| <i>Python breitensteini</i> | LC | II | | 1 | |
| <i>Python brongersmai</i> | LC | II | 3 | 1 | 2 |
| <i>Python curtus</i> | LC | II | | 1 | |
| <i>Python molurus</i> | | II | 18 | 80 | |
| <i>Python molurus pimbura</i> | | II | 11 | | |
| <i>Python regius</i> | LC | II | 681 | 356 | 32 |
| <i>Python sabae</i> | | II | | 2 | |
| <i>Simalia amethistina</i> | | II | 10 | 1 | 5 |
| SCINCIDAE | | | | | |
| <i>Corucia zebrata</i> | | II | | | 3 |
| <i>Eumeces algeriensis</i> | LC | | | 3 | |
| <i>Eutropis macularia</i> | | | | 1 | |
| <i>Lamprolepis smaragdina</i> | | | | | 3 |
| <i>Lepidothyris fernandi</i> | | | | 2 | |
| <i>Microacontias lineatus</i> | | | | | 25 |
| <i>Scincus scincus</i> | | | 1 | | |
| <i>Tiliqua gigas</i> | LC | | 3 | 2 | 8 |
| <i>Tiliqua rugosa rugosa</i> | LC | | | | 1 |
| <i>Tiliqua scincoides</i> | LC | | | 1 | |
| <i>Tiliqua scincoides chimearea</i> | LC | | | | 4 |
| <i>Trachylepis aureopunctata</i> | LC | | | 1 | 3 |
| <i>Trachylepis quinquetaeniata</i> | | | | 1 | |
| <i>Tribolonotus novaeguineae</i> | LC | | 2 | | |
| SHINISAURIDAE | | | | | |
| <i>Shinisaurus crocodilurus</i> | EN | I | 5 | | 2 |
| SPHAERODACTYLIDAE | | | | | |
| <i>Gonatodes albogularis</i> | LC | | | 1 | |

| | | | | | |
|---|----|-----|---|----|----|
| <i>Gonatodes albogularis fuscus</i> | LC | | | | 6 |
| <i>Gonatodes annularis</i> | | | | 2 | |
| <i>Gonatodes daudini</i> | CR | | | | 2 |
| <i>Teratoscincus przewalskii</i> | LC | | | | 2 |
| TEIIDAE | | | | | |
| <i>Cnemidophorus deppei</i> | | | | 1 | |
| <i>Salvator merianae</i> | LC | II | 1 | | 1 |
| <i>Salvator rufesence</i> | | | 4 | | |
| TESTUDINIDAE | | | | | |
| <i>Astrochelys radiata</i> | CR | I | | 2 | |
| <i>Centrochelys sulcata</i> | VU | II | | 19 | 1 |
| <i>Chelonoidis carbonarius</i> | | II | | 6 | |
| <i>Geochelone elegans</i> | VU | II | | 3 | 1 |
| <i>Indotestudo forstenii</i> | EN | II | | | 1 |
| <i>Malacochersus tornieri</i> | VU | II | | | 4 |
| <i>Stigmochelys pardalis</i> | LC | II | | 3 | |
| <i>Stigmochelys pardalis babcocki</i> | LC | II | | 4 | |
| <i>Testudo graeca</i> | VU | II | | 2 | |
| <i>Testudo graeca terrestris</i> | VU | II | | | 4 |
| <i>Testudo hermanni</i> | NT | II | | 12 | |
| <i>Testudo hermanni boettgeri</i> | NT | II | 5 | 12 | 6 |
| <i>Testudo hermanni hercegovinensis</i> | NT | II | | 1 | 1 |
| <i>Testudo hermanni hermanni</i> | NT | II | 1 | 11 | |
| <i>Testudo horsfieldii</i> | VU | II | | 28 | 6 |
| <i>Testudo marginata</i> | LC | II | 4 | 4 | 25 |
| TRIONYCHIDAE | | | | | |
| <i>Apalone ferox</i> | LC | III | | 7 | 1 |
| <i>Apalone spinifera</i> | LC | III | | | 1 |
| TROPIDURIDAE | | | | | |
| <i>Leiocephalus personatus</i> | LC | | | 2 | |
| TYPHLOPIDAE | | | | | |
| <i>Afrotyphlops schlegelii</i> | | | | 1 | |
| <i>Typhlops spp</i> | | | | 10 | |
| VARANIDAE | | | | | |
| <i>Varanus acanthurus</i> | LC | II | 5 | 3 | |
| <i>Varanus albigularis</i> | | II | 2 | | 3 |
| <i>Varanus exanthematicus</i> | LC | II | 1 | 12 | 4 |
| <i>Varanus gilleni</i> | LC | II | | 1 | 3 |
| <i>Varanus indicus</i> | LC | II | | | 1 |
| <i>Varanus jobiensis</i> | LC | II | | 1 | |
| <i>Varanus macraei</i> | EN | II | | | 1 |
| <i>Varanus niloticus</i> | | II | | 1 | |
| <i>Varanus panoptes horni</i> | LC | II | | 1 | |
| <i>Varanus pilbarensis</i> | LC | II | | 2 | |
| <i>Varanus salvator</i> | LC | II | | 1 | |
| <i>Varanus salvator macromaculatus</i> | LC | II | | 2 | |
| VIPERIDAE | | | | | |
| <i>Agkistrodon bilineatus</i> | NT | | | | 1 |
| <i>Bitis arietans</i> | | | 9 | | |
| <i>Bitis rhinoceros</i> | LC | | 2 | | |
| <i>Bothrops barnetti</i> | | | 5 | | |
| <i>Causus maculatus</i> | | | | 1 | |
| <i>Cerastes cerastes</i> | | | 4 | | 2 |

| | | | | |
|---------------------------------------|----|-----|---|----|
| <i>Crotalus mitchellii pyrrhus</i> | LC | | 7 | 11 |
| <i>Crotalus ravus</i> | LC | | 2 | |
| <i>Daboia palaestinae</i> | LC | | 2 | |
| <i>Daboia russelii</i> | | III | 7 | |
| <i>Gloydius blomhoffi siniticus</i> | | | 1 | |
| <i>Ovophis monticola</i> | LC | | | 2 |
| <i>Ovophis okinavensis</i> | | | 1 | |
| <i>Trimeresurus albolabris</i> | LC | | 2 | |
| <i>Trimeresurus purpureomaculatus</i> | | | 4 | 1 |
| <i>Trimeresurus wiroti</i> | LC | | | 1 |
| <i>Tropidolaemus wagleri</i> | LC | | | 2 |
| <i>Vipera ammodytes</i> | LC | | 1 | |
| <i>Vipera aspis keri</i> | LC | | 2 | |
| <i>Vipera aspis zinnikeri</i> | LC | | 2 | |
| <i>Vipera berus</i> | | | 3 | |
| <i>Vipera berus berus</i> | | | 3 | |
| <i>Vipera latastei</i> | VU | | 4 | |
| <i>Vipera nikolskii</i> | | | 4 | |
| <i>Vipera renardi</i> | | | 4 | |
| <i>Vipera ursinii</i> | VU | I | 3 | |
| <i>Vipera ursinii moldavica</i> | VU | I | 3 | |
| OTHER | | | | |
| <i>Hybrids</i> | | | 2 | 2 |

ANNEX V – SEIZED LIVE REPTILES IN THE NETHERLANDS 2004-2017

| Taxon | Total seized | IUCN status | CITES listing |
|--------------------------------|--------------|-------------|---------------|
| REPTILES UNIDENTIFIED | | | |
| <i>Unknown</i> | 461 | - | - |
| CROCODILIA | | | |
| Alligatoridae | | | |
| <i>Alligator sinensis</i> | 22 | CR | I |
| <i>Caiman crocodilus</i> | 816 | LR/lc | II |
| <i>Unknown</i> | 6 | - | - |
| <i>Crocodylidae</i> | | | |
| <i>Osteolaemus tetraspis</i> | 2 | - | I |
| LIZARDS | | | |
| Agamidae | | | |
| <i>Physignathus cocincinus</i> | 4 | - | - |
| <i>Pogona vitticeps</i> | 20 | LC | - |
| <i>Saara hardwickii</i> | 18 | - | II |
| Anguidae | | | |
| <i>Abronia lythrochila</i> | 20 | LC | II |
| <i>Abronia mixteca</i> | 27 | VU | II |
| <i>Mesaspis viridiflava</i> | 8 | LC | - |
| Chamaeleonidae | | | |
| <i>Furcifer pardalis</i> | 3 | LC | II |

| | | | |
|-------------------------------------|-----|----|----|
| <i>Unknown</i> | 5 | | |
| Cordylidae | | | |
| <i>Ouroborus cataphractus</i> | 8 | LC | II |
| <i>Smaug giganteus</i> | 19 | VU | II |
| <i>Cordylus tropidosternum</i> | 5 | - | II |
| Corytophanidae | | | |
| <i>Corytophanes hernandezii</i> | 13 | - | - |
| Crotaphytidae | | | |
| <i>Crotaphytus collaris</i> | 42 | LC | - |
| Eublepharidae | | | |
| <i>Eublepharis macularius</i> | 6 | - | - |
| Gekkonidae | | | |
| <i>Hemidactylus frenatus</i> | 2 | LC | |
| <i>Pachydactylus spp</i> | 5 | - | - |
| <i>Phelsuma madagascariensis</i> | 1 | LC | II |
| Helodermatidae | | | |
| <i>Heloderma suspectum</i> | 2 | NT | II |
| Iguanidae | | | |
| <i>Ctenosaura pectinata</i> | 16 | - | - |
| <i>Iguana iguana</i> | 349 | LC | II |
| <i>Sauromalus ater</i> | 3 | LC | - |
| <i>Sauromalus varius</i> | 13 | - | I |
| <i>Sceloporus spp.</i> | 18 | - | - |
| <i>Unknown</i> | 3 | | |
| Lacertidae | | | |
| <i>Lacerta agilis</i> | 1 | LC | - |
| <i>Nucras ornata</i> | 2 | - | - |
| <i>Podarcis muralis</i> | 3 | LC | - |
| <i>Podarcis spp.</i> | 4 | - | - |
| <i>Zootoca vivipara</i> | 1 | LC | - |
| Leiosauridae | | | |
| <i>Enyalius brasiliensis</i> | 2 | - | - |
| <i>Enyalius iheringii</i> | 2 | - | - |
| <i>Enyalius perditus</i> | 7 | - | - |
| Phrynosomatidae | | | |
| <i>Phrynosoma spp.</i> | 75 | - | - |
| Scincidae | | | |
| <i>Tribolonotus gracilis</i> | 2 | LC | - |
| Teiidae | | | |
| <i>Salvator merianae</i> | 3 | LC | II |
| <i>Salvator rufescens</i> | 4 | - | II |
| <i>Salvator spp.</i> | 1 | - | II |
| Varanidae | | | |
| <i>Varanus exanthematicus</i> | 5 | LC | II |
| <i>Varanus niloticus</i> | 2 | - | II |
| <i>Varanus salvator</i> | 1 | LC | II |
| SNAKES | | | |
| <i>Boidae</i> | | | |
| <i>Acrantophis dumerili</i> | 51 | LC | I |
| <i>Acrantophis madagascariensis</i> | 8 | LC | I |
| <i>Boa constrictor</i> | 26 | - | II |
| <i>Corallus caninus</i> | 3 | LC | II |
| <i>Epicrates cenchria</i> | 5 | - | II |

| | | | |
|------------------------------------|----|----|-----|
| <i>Gongylphis colubrinus</i> | 1 | - | II |
| <i>Eryx jaculus</i> | 1 | - | II |
| <i>Eunectes notaeus</i> | 1 | - | II |
| Colubridae | | | |
| <i>Lampropeltis</i> spp. | 6 | - | - |
| <i>Leptodeira splendida</i> | 1 | LC | - |
| <i>Orthriophis taeniurus</i> | 1 | - | - |
| Unknown | 12 | - | - |
| Elapidae | | | |
| <i>Aspidelaps lubricus</i> | 2 | - | - |
| <i>Dendroaspis polylepis</i> | 2 | LC | - |
| <i>Dendroaspis viridis</i> | 1 | LC | - |
| <i>Naja atra</i> | 1 | VU | II |
| <i>Naja kaouthia</i> | 4 | LC | II |
| <i>Naja siamensis</i> | 2 | VU | II |
| Pythonidae | | | |
| <i>Malayopython reticulatus</i> | 4 | LC | II |
| <i>Morelia spilota</i> | 4 | LC | II |
| <i>Morelia viridis</i> | 8 | LC | II |
| <i>Python molurus</i> | 11 | - | II |
| <i>Python regius</i> | 12 | LC | II |
| Unknown | 2 | | II |
| Viperidae | | | |
| <i>Atheris squamigera</i> | 1 | - | - |
| <i>Azemiops feae</i> | 1 | LC | - |
| <i>Bitis atropos</i> | 2 | LC | - |
| <i>Bothrops insularis</i> | 2 | CR | - |
| <i>Bothrops jararaca</i> | 24 | - | - |
| <i>Crotalus cerastes</i> | 1 | LC | - |
| <i>Vipera ammodytes</i> | 6 | LC | - |
| <i>Vipera ursinii</i> | 2 | VU | I |
| Unknown | 1 | | |
| TURTLES AND TORTOISES | | | |
| Carettochelyidae | | | |
| <i>Carettochelys insculpta</i> | 7 | EN | II |
| Chelidae | | | |
| <i>Phrynops hilarii</i> | 2 | - | - |
| <i>Platemys platycephala</i> | 4 | - | - |
| Unknown | 1 | - | - |
| Chelydridae | | | |
| <i>Chelydra serpentina</i> | 4 | LC | III |
| Emydidae | | | |
| <i>Chrysemys picta dorsalis</i> | 5 | LC | - |
| <i>Clemmys guttata</i> | 0 | EN | II |
| <i>Emys orbicularis</i> | 65 | NT | - |
| <i>Graptemys pseudogeographica</i> | 4 | LC | III |
| <i>Homopus femoralis</i> | 1 | LC | II |
| <i>Malaclemys terrapin</i> | 1 | NT | II |
| <i>Sternotherus carinatus</i> | 2 | LC | - |
| <i>Terrapene carolina</i> | 20 | VU | II |
| <i>Terrapene nelsoni</i> | 27 | DD | II |
| <i>Trachemys scripta</i> | 6 | LC | - |
| <i>Trachemys scripta elegans</i> | 77 | LC | - |

| | | | |
|-----------------------------------|-----|----|-----|
| <i>Trachemys scripta troostii</i> | 15 | LC | - |
| <i>Trachemys</i> spp. | 1 | - | - |
| Unknown | 55 | - | - |
| Geomydidae | | | |
| <i>Cuora amboinensis</i> | 4 | VU | II |
| <i>Cuora flavomarginata</i> | 3 | EN | II |
| <i>Heosemys grandis</i> | 5 | VU | II |
| <i>Mauremys</i> spp. | 37 | - | - |
| <i>Mauremys sinensis</i> | 1 | EN | III |
| <i>Terrapene ornata</i> | 0 | NT | II |
| Kinosternidae | | | |
| <i>Kinosternon cruentatum</i> | 4 | - | - |
| <i>Kinosternon</i> spp. | 0 | - | - |
| <i>Sternotherus minor</i> | 2 | LC | - |
| <i>Sternotherus odoratus</i> | 2 | LC | - |
| Testudinidae | | | |
| <i>Aldabrachelys gigantea</i> | 2 | - | II |
| <i>Astrochelys radiata</i> | 12 | CR | I |
| <i>Centrochelys sulcata</i> | 38 | VU | II |
| <i>Chelonoidis carbonarius</i> | 8 | - | II |
| <i>Cycloderma</i> spp. | 1 | - | - |
| <i>Geochelone elegans</i> | 10 | VU | II |
| <i>Geochelone platynota</i> | 1 | CR | I |
| <i>Gopherus agassizii</i> | 1 | VU | II |
| <i>Indotestudo elongata</i> | 3 | EN | II |
| <i>Kinixys homeana</i> | 1 | VU | II |
| <i>Malacochersus tornieri</i> | 1 | VU | II |
| <i>Manouria emys</i> | 2 | EN | II |
| <i>Psammobates tentorius</i> | 1 | LC | II |
| <i>Pyxis arachnoides</i> | 4 | CR | I |
| <i>Stigmochelys pardalis</i> | 197 | LC | II |
| <i>Testudo graeca</i> | 115 | VU | II |
| <i>Testudo hermanni</i> | 46 | NT | II |
| <i>Testudo horsfieldii</i> | 17 | VU | II |
| <i>Testudo kleinmanni</i> | 1 | CR | I |
| <i>Testudo marginata</i> | 13 | LC | II |
| Unknown | 4 | - | - |

ANNEX VI - COUNTRY CODES

| | | | | | | | |
|----|-----------------------------------|----|---|------|--------------------------------|------|--------------------------------------|
| AD | ANDORRA | EH | WESTERN SAHARA | LI | LIECHTENSTEIN | SB | SOLOMON ISLANDS |
| AE | UNITED ARAB EMIRATES | ER | ERITREA | LK | SRI LANKA | SC | SEYCHELLES |
| AF | AFGHANISTAN | ES | SPAIN | LR | LIBERIA | SD | SUDAN |
| AG | ANTIGUA AND BARBUDA | ET | ETHIOPIA | LS | LESOTHO | SE | SWEDEN |
| AI | ANGUILLA | FI | FINLAND | LT | LITHUANIA | SG | SINGAPORE |
| AL | ALBANIA | FJ | FIJI | LU | LUXEMBOURG | SH | SAINT HELENA AND DEPENDENCIES |
| AM | ARMENIA | FK | FALKLAND ISLANDS (MALVINAS) | LV | LATVIA | SI | SLOVENIA |
| AN | NETHERLANDS ANTILLES | FM | MICRONESIA, FEDERATED STATES OF | LY | LIBYA | SJ | SVALBARD AND JAN MAYEN ISLANDS |
| AO | ANGOLA | FO | FAROE ISLANDS | MA | MOROCCO | SK | SLOVAKIA |
| AQ | ANTARCTICA | FR | FRANCE | MC | MONACO | SL | SIERRA LEONE |
| AR | ARGENTINA | GA | GABON | MD | REPUBLIC OF MOLDOVA | SM | SAN MARINO |
| AS | AMERICAN SAMOA | GB | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | ME | MONTENEGRO | SN | SENEGAL |
| AT | AUSTRIA | GD | GRENADA | MG | MADAGASCAR | SO | SOMALIA |
| AU | AUSTRALIA | GE | GEORGIA | MH | MARSHALL ISLANDS | SR | SURINAME |
| AW | ARUBA | GF | FRENCH GUIANA | MK | MACEDONIA | ST | SAO TOME AND PRINCIPE |
| AX | ÅLAND ISLANDS | GG | GUERNSEY | ML | MALI | SU | FORMER SOVIET UNION |
| AZ | AZERBAIJAN | GH | GHANA | MM | MYANMAR | SV | EL SALVADOR |
| BA | BOSNIA AND HERZEGOVINA | GI | GIBRALTAR | MN | MONGOLIA | SY | SYRIAN ARAB REPUBLIC |
| BB | BARBADOS | GL | GREENLAND | MO | MACAU | SZ | SWAZILAND |
| BD | BANGLADESH | GM | GAMBIA | MP | NORTHERN MARIANA ISLANDS | TC | TURKS AND CAICOS ISLANDS |
| BE | BELGIUM | GN | GUINEA | MQ | MARTINIQUE | TD | CHAD |
| BF | BURKINA FASO | GP | GUADELOUPE | MR | MAURITANIA | TF | FRENCH SOUTHERN TERRITORIES |
| BG | BULGARIA | GQ | EQUATORIAL GUINEA | MS | MONTSERRAT | TG | TOGO |
| BH | BAHRAIN | GR | GREECE | MT | MALTA | TH | THAILAND |
| BI | BURUNDI | GS | SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS | MU | MAURITIUS | TJ | TAJIKISTAN |
| BJ | BENIN | GT | GUATEMALA | MV | MALDIVES | TK | TOKELAU |
| BM | BERMUDA | GU | GUAM | MW | MALAWI | TL | TIMOR-LESTE |
| BN | BRUNEI DARUSSALAM | GW | GUINEA-BISSAU | MX | MEXICO | TM | TURKMENISTAN |
| BO | BOLIVIA (PLURINATIONAL STATE OF) | GY | GUYANA | MY | MALAYSIA | TN | TUNISIA |
| BR | BRAZIL | HK | HONG KONG | MZ | MOZAMBIQUE | TO | TONGA |
| BS | BAHAMAS | HM | HEARD AND MCDONALD ISLANDS | NA | NAMIBIA | TR | TURKEY |
| BT | BHUTAN | HN | HONDURAS | NC | NEW CALEDONIA | TT | TRINIDAD AND TOBAGO |
| BV | BOUVET ISLAND | HR | CROATIA | NE | NIGER | TV | TUVALU |
| BW | BOTSWANA | HT | HAITI | NF | NORFOLK ISLAND | TW | TAIWAN PROVINCE OF CHINA |
| BY | BELARUS | HU | HUNGARY | NG | NIGERIA | TZ T | ANZANIA, UNITED REPUBLIC OF |
| BZ | BELIZE | ID | INDONESIA | NI | NICARAGUA | UA | UKRAINE |
| CA | CANADA | IE | IRELAND | NL | NETHERLANDS | UG | UGANDA |
| CC | COCOS (KEELING) ISLANDS | IL | ISRAEL | NO | NORWAY | UM | UNITED STATES MINOR OUTLYING ISLANDS |
| CD | CONGO, DEMOCRATIC REPUBLIC OF THE | IM | ISLE OF MAN | NP | NEPAL | US | UNITED STATES OF AMERICA |
| CF | CENTRAL AFRICAN REPUBLIC | IN | INDIA | NR | NAURU | UY | URUGUAY |
| CG | CONGO | IO | BRITISH INDIAN OCEAN TERRITORY | NU | NIUE | UZ | UZBEKISTAN |
| CH | SWITZERLAND | IQ | IRAQ | NZ | NEW ZEALAND | VA | HOLY SEE |
| CI | CÔTE D'IVOIRE | IR | IRAN, ISLAMIC REPUBLIC OF | OM | OMAN | VC | SAINT VINCENT AND THE GRENADINES |
| CK | COOK ISLANDS | IS | ICELAND | PA P | ANAMA | VE | VENEZUELA, BOLIVARIAN REPUBLIC OF |
| CL | CHILE | IT | ITALY | PC | FORMER PACIFIC TRUST TERRITORY | VG | VIRGIN ISLANDS (BRITISH) |
| CM | CAMEROON | JE | JERSEY | PE | PERU | VI | VIRGIN ISLANDS (U.S.) |
| CN | CHINA | JM | JAMAICA | PF | FRENCH POLYNESIA | VN | VIET NAM |
| CO | COLOMBIA | JO | JORDAN | PG | PAPUA NEW GUINEA | VU | VANUATU |
| CR | COSTA RICA | JP | JAPAN | PH | PHILIPPINES | WF | WALLIS AND FUTUNA ISLANDS |
| CS | FORMER SERBIA AND MONTENEGRO | KE | KENYA | PK | PAKISTAN | WS | SAMOA |
| CU | CUBA | KG | KYRGYZSTAN | PL | POLAND | XA1 | FRENCH ANTILLES |
| CV | CAPE VERDE | KH | CAMBODIA | PM | SAINT PIERRE AND MIQUELON | XC1 | CARIBBEAN |
| CX | CHRISTMAS ISLAND | KI | KIRIBATI | PN | PITCAIRN | XE1 | EUROPE |
| CY | CYPRUS | KM | COMOROS | PR | PUERTO RICO | XF1 | AFRICA |
| CZ | CZECH REPUBLIC | KN | SAINT KITTS AND NEVIS | PS | OCCUPIED PALESTINIAN TERRITORY | XM1 | SOUTH AMERICA |
| DD | FORMER EAST GERMANY | KP | KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF | PT | PORTUGAL | XS1 | ASIA |
| DE | GERMANY | KR | KOREA, REPUBLIC OF | PW | PALAU | XV1 | VARIOUS |
| DJ | DJIBOUTI | KW | KUWAIT | PY | PARAGUAY | XX1 | UNKNOWN |
| DK | DENMARK | KY | CAYMAN ISLANDS | QA | QATAR | YE | YEMEN |
| DM | DOMINICA | KZ | KAZAKHSTAN | RE | RÉUNION | YT | MAYOTTE |
| DO | DOMINICAN REPUBLIC | LA | LAO PEOPLE'S DEMOCRATIC REPUBLIC | RO | ROMANIA | YU | FORMER YUGOSLAVIA |
| DZ | ALGERIA | LB | LEBANON | RS | SERBIA | ZA | SOUTH AFRICA |
| EC | ECUADOR | LC | SAINT LUCIA | RU | RUSSIAN FEDERATION | ZC1 | FORMER CZECHOSLOVAKIA |
| EE | ESTONIA | | | RW | RWANDA | ZM | ZAMBIA |
| EG | EGYPT | | | SA | SAUDI ARABIA | ZW | ZIMBABWE |
| | | | | | | ZZ1 | INTRODUCTION FROM THE SEA |

Published by:
Monitor Conservation Research Society (Monitor)
PO Box 200, Big Lake Ranch, B.C.,
V0L 1G0, CANADA

© Monitor Conservation Research Society.
Business number: 79216 6712 BC0001
Incorporation number: S0068120

Monitor is a Canadian based NGO that aims to reduce the illegal and unsustainable trade in wildlife, focusing particularly on lesser known threatened species. By providing scientific research and catalysing evidence-based reform, Monitor seeks to solve trade-fuelled conservation issues around the globe.

This report was commissioned and funded by: WWF Netherlands.

Graphic design by Delphine Gomez
Cover photo: © William Warby

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Suggested Citation: Janssen, J. and Leupen, B.T.C. (2019). *The role of the Netherlands in the Reptile trade*. Monitor Conservation Research Society, Big Lake Ranch, Canada.