

## Questionnaire on the status, trade and conservation of non CITES-listed anguillid eels

The term 'specimen' as used in this questionnaire is as defined in Article I, paragraph b) i) and ii) of the Convention on International Trade in Endangered Species of Wild Fauna and Flora<sup>1</sup>

### A. NATIONAL AND GLOBAL CONSERVATION STATUS

*Please provide as much information as possible in answer to the questions below – the information should cover at least the last ten years unless otherwise stated<sup>2</sup>*

Country	<b>United States of America</b>
Function of agency completing this questionnaire (CITES Management Authority, CITES Scientific Authority, Wildlife Authority, Police, Customs, Other)	<b>CITES Management Authority, Scientific Authority, and Enforcement Authority</b>
Contact details of agency/agencies completing this questionnaire	<b>U.S. Fish &amp; Wildlife Service 5275 Leesburg Pike, Falls Church, Virginia 22041</b>
Contact person (name, email, job title, function)	<b>Laura Noguchi, Chief, Wildlife Trade and Conservation Branch Division of Management Authority U.S. Fish and Wildlife Service <a href="mailto:Laura_Noguchi@fws.gov">Laura_Noguchi@fws.gov</a></b>

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<sup>1</sup> (b) "Specimen" means:  
(i) any animal or plant, whether alive or dead;  
(ii) in the case of an animal: for species included in Appendices I and II, any readily recognizable part or derivative thereof; and for species included in Appendix III, any readily recognizable part or derivative thereof specified in Appendix III in relation to the species

<sup>2</sup> Please use additional sheets for any question, if needed.

<b>A.1</b>	Is your country a range State of anguillid eels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Don't know <input type="checkbox"/>																																																
If 'Yes', please indicate which species <sup>3</sup> occur in your country. If 'No', please proceed to Section B.2.1.																																																				
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Species</th> <th style="width: 15%;">Yes <input checked="" type="checkbox"/></th> <th style="width: 15%;">No <input type="checkbox"/></th> </tr> </thead> <tbody> <tr> <td><i>Anguilla australis</i>                      <b>American Samoa</b></td> <td style="text-align: center;">Yes <input checked="" type="checkbox"/></td> <td style="text-align: center;">No <input type="checkbox"/></td> </tr> <tr> <td><i>Anguilla bengalensis</i></td> <td style="text-align: center;">Yes <input type="checkbox"/></td> <td style="text-align: center;">No <input checked="" type="checkbox"/></td> </tr> <tr> <td><i>Anguilla bicolor</i>                      <b>Northern Mariana Islands, Guam</b></td> <td style="text-align: center;">Yes <input checked="" type="checkbox"/></td> <td style="text-align: center;">No <input type="checkbox"/></td> </tr> <tr> <td><i>Anguilla borneensis</i></td> <td style="text-align: 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<sup>3</sup> Three additional species names are occasionally used in relation to freshwater eels – *Anguilla labiata*, *Anguilla malgumora* and *Anguilla nebulosa*. *A. labiata* is sub-population of *A. bengalensis*, primarily found in Africa and should be referred to as the latter. *A. malgumora* is a synonym for *A. borneensis* and should be referred to as the latter. *A. nebulosa* is a synonym for *A. bengalensis* and should be referred to as the latter.

A.2

Does information exist about the biology of some, or all of, the anguillid species in your country?

Yes

No

If 'Yes', please provide a link(s), reference(s) or additional information - personal experience and/or communications can be included:

U.S. Fish and Wildlife Service Northeast Region American Eel Webpage (<https://www.fws.gov/northeast/americaneel>) (Which contains)  
12-month ESA not warranted finding

([https://www.fws.gov/northeast/americaneel/pdf/20150820\\_AmEel\\_12M\\_NotWarranted\\_BatchFormat\\_v2\\_Signed.pdf](https://www.fws.gov/northeast/americaneel/pdf/20150820_AmEel_12M_NotWarranted_BatchFormat_v2_Signed.pdf))

USFWS Peer-reviewed biological species report ([https://www.fws.gov/northeast/americaneel/pdf/20150831\\_AmEel\\_Biological\\_Report\\_v2.pdf](https://www.fws.gov/northeast/americaneel/pdf/20150831_AmEel_Biological_Report_v2.pdf))

Literature cited ([https://www.fws.gov/northeast/americaneel/pdf/20150831\\_AmEel\\_12M\\_RefCited.pdf](https://www.fws.gov/northeast/americaneel/pdf/20150831_AmEel_12M_RefCited.pdf));

Literature referenced but not cited ([https://www.fws.gov/northeast/americaneel/pdf/20150831\\_AmEel\\_12M\\_RefRvwdNotCited.pdf](https://www.fws.gov/northeast/americaneel/pdf/20150831_AmEel_12M_RefRvwdNotCited.pdf))

Atlantic States Marine Fisheries Commission American Eel Webpage (<http://www.asmfc.org/species/american-eel>) (Which c

Management Plans and FMP Reviews (<http://www.asmfc.org/species/american-eel#management>)

Stock Assessment Reports (<http://www.asmfc.org/species/american-eel#stock>)

Meeting Summaries & Reports (<http://www.asmfc.org/species/american-eel#meetingsummaries>)

ASMFC American Eel Press Releases (<http://www.asmfc.org/species/american-eel#pressreleases>)

2017 American Eel Aging Report ([http://www.asmfc.org/uploads/file//59fb5bf0AmericanEelAgeingReport\\_May2017.pdf](http://www.asmfc.org/uploads/file//59fb5bf0AmericanEelAgeingReport_May2017.pdf))

2015 Fish Habitat Factsheet (<http://www.asmfc.org/uploads/file//5a709dcdAmericanEel.pdf>)

**A.3.1**

Does recent information exist about the population status of some, or all of, the anguillid species in your country?

Yes  No

If 'Yes', based on the best available information, what was the status of the wild population of *Anguilla* species in your country over the last 20 years:

Species	Increase	Stable	Decrease	Unknown
<i>Anguilla rostrata</i>	<input type="checkbox"/>	Generally stable, but depleted, and some reference sites decreasing	<input type="checkbox"/>	<input type="checkbox"/>
<i>Anguilla australis</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Anguilla bicolor</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Anguilla celebesensis</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Anguilla marmorata</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Please indicate the source(s) of information your answer is based on – personal experience and/or communications can be included:

For *Anguilla rostrata* - ASMFC Stock Assessment Reports (<http://www.asmfc.org/species/american-eel#stock>)

**A.3.2**

In your country, what is/are considered the major threat(s) to *Anguilla* species, listed alphabetically below:

Barriers to migration (including hydro-power)  Climate change  Disease / Parasites  Habitat loss/modification   
Pollution  Predation  Unsustainable/illegal harvest and/or trade  Other (please describe)

Please indicate the source(s) of information your answer is based on – personal experience and/or communications can be included:

USFWS Peer-reviewed biological species report ([https://www.fws.gov/northeast/americaneel/pdf/20150831\\_AmEel\\_Biological\\_Report\\_v2.pdf](https://www.fws.gov/northeast/americaneel/pdf/20150831_AmEel_Biological_Report_v2.pdf))  
ASMFC Stock Assessment Reports (<http://www.asmfc.org/species/american-eel#stock>)

**B. HARVEST CONSUMPTION AND TRADE**

<b>B.1.1</b>	<p>Are <i>Anguilla</i> species harvested in your country?</p> <p style="text-align: center;">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>If 'Yes', please provide link(s), reference(s) or additional information, paying particular reference to species, life stage, location of harvest and method of harvest.</p> <p><b>American eel (<i>Anguilla rostrata</i>) currently support commercial fisheries throughout their Atlantic Coastal range in the United States, with significant fisheries occurring in the US Mid-Atlantic region. These fisheries occur in riverine, estuarine, and ocean waters. Glass eel fisheries along the Atlantic coast are prohibited in all states except Maine and South Carolina. The American eel fishery primarily targets yellow stage eel and the fishery operates in all Atlantic states and jurisdictions with the exception of Pennsylvania and the District of Columbia and a silver eel weir fishery exists in New York's Delaware River. Eel pots and traps are the most typical gear used in the fishery; however, weirs, fyke nets, and other fishing methods are also used. In recent years, Maine is the only state reporting significant glass eel and elver harvest.</b></p> <p><b><u>Attachment 1:</u> American eel harvest data for yellow eels provided by Atlantic States Marine Fisheries Commission (ASMFC)</b></p> <p><b><u>Attachment 2:</u> Maine's and South Carolina's glass/elver eel landings 2007-2017 (Source: Atlantic Coastal Cooperative Statistics Program)</b></p> <p><b>ASMFC Stock Assessment Reports (<a href="http://www.asmfc.org/species/american-eel#stock">http://www.asmfc.org/species/american-eel#stock</a>)</b></p>
<b>B.1.2</b>	<p>If 'Yes', please indicate the end use(s) of each species of harvested eel – please copy and paste the text below if more sections are needed for multiple species:</p> <p>Species name: <i>Anguilla rostrata</i></p> <p style="text-align: center;">Direct domestic consumption <input type="checkbox"/> For grow-out in domestic farms <input checked="" type="checkbox"/> National re-stocking <input type="checkbox"/></p> <p style="text-align: center;">Export for grow-out in farms <input checked="" type="checkbox"/> Export for direct consumption <input checked="" type="checkbox"/> Export for re-stocking <input type="checkbox"/> Other uses (please describe) <input checked="" type="checkbox"/></p> <p>Please indicate the source(s) of information your answer is based on: <b>State compliance reports and the 2017 ASFMC Stock Assessment Update Report provide some information on the use of glass and yellow life stage eels post-harvest. Specifically from the Stock Assessment Update Report regarding glass eels: <a href="http://www.asmfc.org/uploads/file//59fb5847AmericanEelStockAssessmentUpdate_Oct2017.pdf">http://www.asmfc.org/uploads/file//59fb5847AmericanEelStockAssessmentUpdate_Oct2017.pdf</a></b></p> <p><b>“Over the last seven years, there has been an increase in the demand for glass eel due to concerns over population levels of European and Japanese eels, as well as tighter restrictions on the export of European eel.” (page 10)</b></p> <p><b>We are under the impression that export of glass eels is for both grow out in farms in Asia as well as for direct consumption.</b></p> <p><b>Through the ASMFC's process, the state of North Carolina has requested and been granted a harvest allowance of up to 200 pounds of glass eel for domestic aquaculture purposes. The American Eel Farm's effort to harvest glass eels for domestic aquaculture is to grow out the eels to be processed for domestic</b></p>

consumption. The harvest allowance was granted in 2016; no glass eels were captured in 2016. The allowance was granted again in 2017; only 0.25 pounds (~775 glass eels) were captured.

Specific to the yellow eel fishery, the following is indicated in the ASMFC Stock Assessment Update Report:

“Historically and currently, the majority of commercial landings come from the yellow eel fishery. Accounts of eel harvest date back to colonial times, with some commercial fishery harvest records available beginning in the late 1880s, but consistent record keeping began in 1950... Although yellow eel were harvested for food historically, today’s fishery sells yellow eel primarily as bait for recreational fisheries.” (page 10)

“The use of harvested American eels for bait in other fisheries is not well-described, although it does not appear to have been common before the 20th century nor had the relative importance of food markets. Eel harvesting in the South Atlantic Bight prior to the 1970s was focused primarily on harvesting eels for live bait in sport fisheries and secondarily as bait for blue crab pots (Van Den Avyle 1984). Harvesting eels for crab trotline bait was important in the Maryland eel fishery in the 20th century (Foster and Brody 1982). The proportion of the eel harvest sold for bait declined with the advent of the overseas food market in the 1960s, and this disposition declined further as the increased use of crab pots reduced the need for baited trotlines (Lane 1978).

A more recent development in the marketing of U. S. caught American eels is the use of eels as bait in recreational striped bass, cobia, and catfish fisheries.” (page 11)

Species name:

- Direct domestic consumption  For grow-out in domestic farms  National re-stocking   
 Export for grow-out in farms  Export for direct consumption  Export for re-stocking  Other uses (please describe)

Please indicate the source(s) of information your answer is based on:

**B.2.1** Are *Anguilla* species (including *Anguilla anguilla*) consumed in your country?

Yes  No

If 'Yes', please provide details of what species and life stages are consumed

See response in B.1.2

If No, please go to B.3.1.

**B.2.2** If 'Yes', for how long have *Anguilla* eels been consumed in your country?

0-5 years  5-10 years  10-20 years  21-50 years  >50 years  Don't know

<b>B.2.3</b>	<p>If 'Yes', what is/are the source(s) of the <i>Anguilla</i> eels for consumption?</p> <p style="text-align: center;">Domestic harvest <input checked="" type="checkbox"/> Domestic farms <input type="checkbox"/> Imported (wild-caught) <input type="checkbox"/> Imported (farmed) <input type="checkbox"/> Other (please describe) <input type="checkbox"/></p> <p>Where possible, please provide further details of these sources (e.g. main species consumed and source countries).</p>
<b>B.2.4</b>	<p>If 'Yes', please provide information on the amount of <i>Anguilla</i> species consumed annually (live weight, by species if possible).</p> <p><b>This information is not known or available.</b></p>
<b>B.2.5</b>	<p>If 'Yes', please provide information on whether the consumption of particular species has changed since the listing of <i>Anguilla anguilla</i> in Appendix II of CITES came into force in March 2009, or whether there have been barriers to monitoring such changes e.g. products sold under a common name.</p>
<b>B.3.1</b>	<p>Are Anguillid eels (including <i>Anguilla anguilla</i>) farmed in your country?</p> <p style="text-align: center;">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>If 'Yes', please provide details of what species and life stages are farmed, and any reports, references and/or historical data that indicates the quantity and scale of production, focusing on the last 5 years (2011-2016, and if possible 2017).</p> <p><u>Attachment 3:</u> United States' State use of restocking and aquaculture of the American eel (<i>Anguilla rostrata</i>).</p> <p><b><i>Anguilla rostrata</i>. See response in B.1.2</b></p> <p><b><i>Anguilla mossambica</i>:</b> The State of Michigan recently approved a proposal to rear <i>Anguilla mossambica</i> at a recirculating facility which hasn't yet been constructed. Hence, the timing of glass eel importation into Michigan is unknown.</p> <p>If No, please go to B.4.</p>
<b>B.3.2</b>	<p>If 'Yes', please provide details of where seed stock for each species farmed is obtained e.g. domestically or imported.</p> <p style="text-align: center;">Domestic harvest <input checked="" type="checkbox"/> Imported (wild-caught) <input type="checkbox"/> Imported (farmed) <input type="checkbox"/> Other (please describe) <input type="checkbox"/></p>

	<p>Where possible, please provide further details of these sources (e.g. source countries and life stages involved).</p> <p><b>See response in B.1.2</b></p> <p>The source of glass eels for the culture of <i>Anguilla mossambica</i> in Michigan is unknown.</p>
<p><b>B.3.3</b></p>	<p>If 'Yes', please provide information on whether the grow-out of particular species into farms has changed since the listing of <i>Anguilla anguilla</i> in Appendix II of CITES came into force (March 2009).</p> <p><b>No change.</b></p>
<p><b>B.3.4</b></p>	<p>If 'Yes', please provide details of the end use of <i>Anguilla</i> spp. that are farmed - please copy and paste the text below if extra sections are needed for multiple species:</p> <p>Species name: <i>Anguilla rostrata</i></p> <p style="padding-left: 40px;">         Direct domestic consumption <input checked="" type="checkbox"/>            For grow-out in domestic farms <input checked="" type="checkbox"/>            National re-stocking <input type="checkbox"/>          Export for direct consumption <input checked="" type="checkbox"/>            Export for grow-out in farms <input type="checkbox"/>            Export for re-stocking <input type="checkbox"/>            Other uses (please describe) <input type="checkbox"/> </p> <p>If farmed eels are exported, please provide information on export destinations.</p> <p>Species name:</p> <p style="padding-left: 40px;">         Direct domestic consumption <input type="checkbox"/>            Input into domestic farms for further on-growing <input type="checkbox"/>            National re-stocking <input type="checkbox"/>          Export for direct consumption <input type="checkbox"/>            Export for grow-out in farms <input type="checkbox"/>            Export for re-stocking <input type="checkbox"/>            Other uses (please describe) <input type="checkbox"/> </p> <p>If farmed eels are exported, please provide information on export destinations.</p>





0301.92.00 00 Eels (*Anguilla spp.*).

0302.74.00 00 Fish, fresh or chilled, excluding fish fillets and other fish meat of heading 0304: Tilapias (*Oreochromis spp.*), catfish (*Pangasius spp.*, *Silurus spp.*, *Clarias spp.*, *Ictalurus spp.*), carp (*Cyprinus spp.*, *Carassius spp.*, *Ctenopharyngodon idellus*, *Hypophthalmichthys spp.*, *Cirrhinus spp.*, *Mylopharyngodon piceus*, *Catla catla*, *Labeo spp.*, *Osteochilus hasselti*, *Leptobarbus hoeveni*, *Megalobrama spp.*), eels (*Anguilla spp.*), Nile perch (*Lates niloticus*) and snakeheads (*Channa spp.*), excluding edible fish offal of subheadings 0302.91 to 0302.99: Eels (*Anguilla spp.*).

0303.26.00 00 Fish, frozen, excluding fish fillets and other fish meat of heading 0304: (con.) Tilapias (*Oreochromis spp.*), catfish (*Pangasius spp.*, *Silurus spp.*, *Clarias spp.*, *Ictalurus spp.*), carp (*Cyprinus spp.*, *Carassius spp.*, *Ctenopharyngodon idellus*, *Hypophthalmichthys spp.*, *Cirrhinus spp.*, *Mylopharyngodon piceus*, *Catla catla*, *Labeo spp.*,

*Osteochilus hasselti*, *Leptobarbus hoeveni*, *Megalobrama spp.*), eels (*Anguilla spp.*), Nile perch (*Lates niloticus*) and snakeheads (*Channa spp.*), excluding edible fish offal of

subheadings 0303.91 to 0303.99: Eels (*Anguilla spp.*).

**The following HTS codes do further describe from the 6 digits, however, they are not a break out based upon identification of species, in particular *Anguilla*.**

0304.93.10.05 Tilapias (*Oreochromis spp.*), catfish (*Pangasius spp.*, *Silurus spp.*, *Clarias spp.*, *Ictalurus spp.*), carp (*Cyprinus spp.*, *Carassius spp.*, *Ctenopharyngodon idellus*, *Hypophthalmichthys spp.*, *Cirrhinus spp.*, *Mylopharyngodon piceus*, *Catla catla*, *Labeo spp.*, *Osteochilus hasselti*, *Leptobarbus hoeveni*, *Megalobrama spp.*), eels (*Anguilla spp.*), Nile perch (*Lates niloticus*) and snakeheads (*Channa spp.*): In bulk or in immediate containers weighing with their contents over 6.8 kg each: Minced: Surimi

0304.93.10.10 Tilapias (*Oreochromis spp.*), catfish (*Pangasius spp.*, *Silurus spp.*, *Clarias spp.*, *Ictalurus spp.*), carp (*Cyprinus spp.*, *Carassius spp.*, *Ctenopharyngodon idellus*, *Hypophthalmichthys spp.*, *Cirrhinus spp.*, *Mylopharyngodon piceus*, *Catla catla*, *Labeo spp.*, *Osteochilus hasselti*, *Leptobarbus hoeveni*, *Megalobrama spp.*), eels (*Anguilla spp.*), Nile perch (*Lates niloticus*) and snakeheads (*Channa spp.*): In bulk or in immediate containers weighing with their contents over 6.8 kg each: Minced: Other

0304.93.10.90 Tilapias (*Oreochromis spp.*), catfish (*Pangasius spp.*, *Silurus spp.*, *Clarias spp.*, *Ictalurus spp.*), carp (*Cyprinus spp.*, *Carassius spp.*, *Ctenopharyngodon idellus*, *Hypophthalmichthys spp.*, *Cirrhinus spp.*, *Mylopharyngodon piceus*, *Catla catla*, *Labeo spp.*, *Osteochilus hasselti*, *Leptobarbus hoeveni*, *Megalobrama spp.*), eels (*Anguilla spp.*), Nile perch (*Lates niloticus*) and snakeheads (*Channa spp.*): In bulk or in immediate containers weighing with their contents over 6.8 kg each: Other

**The following HTS codes while identified to ten digits do not break out *Anguilla*.**

0305.31.01 00 Fish fillets, dried, salted or in brine, but not smoked: Tilapias (*Oreochromis* spp.), catfish (*Pangasius* spp.,*Silurus* spp., *Clarias* spp., *Ictalurus* spp.), carp (*Cyprinus* spp., *Carassius* spp., *Ctenopharyngodon idellus*, *Hypophthalmichthys* spp., *Cirrhinus* spp., *Mylopharyngodon piceus*, *Catla catla*, *Labeo* spp., *Osteochilus hasselti*, *Leptobarbus hoeveni*, *Megalobrama* spp.), eels (*Anguilla* spp.), Nile perch (*Lates niloticus*) and snakeheads (*Channa* spp.)

0305.44.01 00Tilapias (*Oreochromis* spp.), catfish (*Pangasius* spp.,*Silurus* spp., *Clarias* spp., *Ictalurus* spp.), carp (*Cyprinus* spp., *Carassius* spp., *Ctenopharyngodon idellus*, *Hypophthalmichthys* spp., *Cirrhinus* spp.,*Mylopharyngodon piceus*, *Catla catla*, *Labeo* spp.,*Osteochilus hasselti*, *Leptobarbus hoeveni*,*Megalobrama* spp.), eels (*Anguilla* spp.), Nile perch (*Lates niloticus*) and snakeheads (*Channa* spp.)

0305.52.00 00 Fish, dried, salted or in brine; smoked fish, whether or not cooked before or during the smoking process; flours, meals and pellets of fish, fit for human consumption: Dried fish, other than edible fish offal, whether or not salted but not smoked: Tilapias (*Oreochromis* spp.), catfish (*Pangasius* spp.,*Silurus* spp., *Clarias* spp., *Ictalurus* spp.), carp (*Cyprinus* spp., *Carassius* spp., *Ctenopharyngodon idellus*, *Hypophthalmichthys* spp., *Cirrhinus* spp., *Mylopharyngodon piceus*, *Catla catla*, *Labeo* spp., *Osteochilus hasselti*, *Leptobarbus hoeveni*, *Megalobrama* spp.), eels (*Anguilla* spp.), Nile perch(*Lates niloticus*) and snakeheads (*Channa* spp.)

0305.64.10 00 Fish, dried, salted or in brine; smoked fish, whether or not cooked before or during the smoking process; flours, meals and pellets of fish, fit for human consumption: Fish, salted but not dried or smoked and fish in brine, other than edible fish offal: Tilapias (*Oreochromis* spp.), catfish (*Pangasius* spp., *Silurus* spp., *Clarias* spp., *Ictalurus* spp.), carp (*Cyprinus* spp., *Carassius* spp., *Ctenopharyngodon idellus*, *Hypophthalmichthys* spp., *Cirrhinus* spp., *Mylopharyngodon piceus*, *Catla catla*, *Labeo* spp., *Osteochilus hasselti*, *Leptobarbus hoeveni*, *Megalobrama* spp.), eels (*Anguilla* spp.), Nile perch (*Lates niloticus*) and snakeheads (*Channa* spp.):In immediate containers weighing with their contents 6.8 kg or less each

0305.64.50 00 Fish, dried, salted or in brine; smoked fish, whether or not cooked before or during the smoking process; flours, meals and pellets of fish, fit for human consumption: Fish, salted but not dried or smoked and fish in brine, other than edible fish offal: Tilapias (*Oreochromis* spp.), catfish (*Pangasius* spp., *Silurus* spp., *Clarias* spp., *Ictalurus* spp.), carp (*Cyprinus* spp., *Carassius* spp., *Ctenopharyngodon idellus*, *Hypophthalmichthys* spp., *Cirrhinus* spp., *Mylopharyngodon piceus*, *Catla catla*, *Labeo* spp., *Osteochilus hasselti*, *Leptobarbus hoeveni*, *Megalobrama* spp.), eels (*Anguilla* spp.), Nile perch (*Lates niloticus*) and snakeheads (*Channa* spp.): Other

Customs Import Data compiled from tariff data: (<https://dataweb.usitc.gov/>)

Customs Import Data compiled from tariff data: (<https://dataweb.usitc.gov/>)

**HTS - 0301920000: EELS (ANGUILLA SPP.), LIVE**

**First Unit of Quantity by Country Name and First Unit of Quantity  
for ALL Countries**

**U.S. Imports for Consumption**

**Annual Data**



Country	Quantity Description	2011	2012	2013	2014	2015	2016	2017
		<i>In 1,000 Units of Quantity</i>						
Australia	kilograms	0	1	4	4	2	4	2
Bangladesh	kilograms	3	49	56	57	47	41	40
Canada	kilograms	4	16	11	21	35	35	24
China	kilograms	0	0	15	0	0	0	0
Dominican Rep	kilograms	0	0	3	0	0	0	0
Haiti	kilograms	0	0	8	0	0	0	0
Jamaica	kilograms	0	0	0	0	0	0	0
Mexico	kilograms	0	0	0	0	0	0	0
Morocco	kilograms	0	0	0	4	0	0	6
New Zealand	kilograms	12	0	9	17	14	40	59
Peru	kilograms	0	0	0	0	0	0	0
Tunisia	kilograms	0	0	0	1	5	0	0

Sources: Data on this site have been compiled from tariff and trade data from the U.S. Department of Commerce and the U.S. International Trade Commission.

**HTS - 0302740000: EELS (ANGUILLA SPP.), FRESH OR CHILLED, EXCEPT FILLETS, LIVERS  
AND ROES**

**First Unit of Quantity by Country Name and First Unit of Quantity  
for ALL Countries**

**U.S. Imports for Consumption**

**Annual Data**



Country	Quantity Description	20	20	20	20	20	20	2017
		11	12	13	14	15	16	
<i>In 1,000 Units of Quantity</i>								
Bangladesh	kilograms	0	0	0	0	0	0	0
Canada	kilograms	0	28	0	0	0	3	0
China	kilograms	0	8	0	0	0	5	6
India	kilograms	0	0	0	0	0	2	0
Japan	kilograms	0	0	0	3	0	1	0
Korea	kilograms	0	0	0	0	0	0	0
New Zealand	kilograms	0	1	0	0	0	0	0
Panama	kilograms	0	0	0	0	0	0	1
Portugal	kilograms	0	2	1	3	7	7	12
Spain	kilograms	0	0	0	0	0	0	0
Vietnam	kilograms	0	0	0	0	0	0	0

Sources: Data on this site have been compiled from tariff and trade data from the U.S. Department of Commerce and the U.S. International Trade Commission.

## First Unit of Quantity by Country Name and First Unit of Quantity for ALL Countries

### U.S. Imports for Consumption

#### Annual Data

Country	Quantity Description	201	201	201	201	201	201	201
		1	2	3	4	5	6	7
		<i>In 1,000 Units of Quantity</i>						
Bangladesh	kilograms	0	0	0	0	1	0	0
Burma (Myanmar)	kilograms	0	0	0	0	0	1	0
Canada	kilograms	0	19	18	8	12	32	13
China	kilograms	0	72	72	183	55	44	104
Japan	kilograms	0	0	0	0	0	0	2
Korea	kilograms	0	27	26	27	7	6	13
Mexico	kilograms	0	0	4	0	0	0	0
Pakistan	kilograms	0	0	22	0	0	0	0
Panama	kilograms	0	0	12	0	0	0	0
Portugal	kilograms	0	0	1	4	0	2	1
Spain	kilograms	0	0	0	0	0	1	0
Thailand	kilograms	0	8	4	14	41	26	53
Vietnam	kilograms	0	114	100	36	31	79	92

Sources: Data on this site have been compiled from tariff and trade data from the U.S. Department of Commerce and the U.S. International Trade Commission.







	<p>FEDERAL: U.S. Fish and Wildlife Service Office of Law Enforcement. Senior Special Agent Bryan Landry - +1 (703) 358-2520 – bryan_landry@fws.gov</p>												
<p><b>D.1.1</b></p>	<p>What measures/tools are in place in your country to promote and ensure the compliance with the relevant provisions pertaining to the harvest of American Eel?</p> <p>STATE: Various State laws regulate the harvest, transport, possession and sale of American eel. Most states prohibit commercial harvest of American eel. Only the States of Maine and South Carolina, Florida allow a limited commercial harvest and sale of American eel.</p> <p>FEDERAL: In general, the U.S. Lacey Act, Title 16 United States Code Section 3372 et al., makes it unlawful for any person to: import/export/transport/sell/receive/acquire/or purchase; ANY fish/wildlife/plant, WHICH WAS EITHER taken/possessed/transported/or sold, in violation of ANY law/treaty/regulation of ANY state/federal/tribal/or foreign law. In essence, this law allows the federal government to ENFORCE violations of individual STATE and FOREIGN laws, when other foreign or domestic entities lose jurisdiction (transported across borders).</p>												
<p><b>D.2</b></p>	<p>Have there been any reported incidents of illegal harvest of American Eel in your country?</p> <p style="text-align: center;">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>If 'Yes', please go to question D.2.1 and provide details.</p>												
<p><b>D.2.1</b></p>	<p>If you answered yes, where possible, please provide information on the reported incidents of illegal harvest:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">Timeframe: 5 Year Lookback</td> </tr> <tr> <td style="width: 25%;">Number of Incidents</td> <td>--MULTIPLE incidents in last 5 years (well over 100+) of illegal HARVEST in violation of state and tribal laws.</td> </tr> <tr> <td>Number of specimens/Size of Seizures (kg)</td> <td>-Unable to tabulate for this report. Records held by various state jurisdictions. However, one federal investigation, Operation Broken Glass, has documented approximately 23 subjects who have trafficked in over \$10.3 million USD in app. 3,000 kg illegal glass eels.</td> </tr> <tr> <td>Life stage of the harvested <i>Anguilla</i> species</td> <td>ALL Glass eels</td> </tr> <tr> <td>Trade Routes Used (Country of origin/transit destination)</td> <td>- Harvested in U.S. and Imported into U.S. from Canada and Caribbean - ALL glass eels EXPORTED primarily to Hong Kong, some to China and South Korea</td> </tr> <tr> <td>Nature of Violations (ie: harvest quotas, gear restrictions, closed areas/seasons, licensing/permits, others)</td> <td><b>Various violations of state laws</b> (<i>illegal harvest in states that prohibit harvest, fishing in prohibited areas, fishing out of season, submission of false fishing reports, harvesting over quota, fishing with illegal gear, fishing without harvest licenses, illegal sales to dealers, theft of eels, etc.</i>)  <b>U.S. Lacey Act Violations</b> (<i>transport/sell/export said illegally harvested eels</i>)</td> </tr> </table>	Timeframe: 5 Year Lookback		Number of Incidents	--MULTIPLE incidents in last 5 years (well over 100+) of illegal HARVEST in violation of state and tribal laws.	Number of specimens/Size of Seizures (kg)	-Unable to tabulate for this report. Records held by various state jurisdictions. However, one federal investigation, Operation Broken Glass, has documented approximately 23 subjects who have trafficked in over \$10.3 million USD in app. 3,000 kg illegal glass eels.	Life stage of the harvested <i>Anguilla</i> species	ALL Glass eels	Trade Routes Used (Country of origin/transit destination)	- Harvested in U.S. and Imported into U.S. from Canada and Caribbean - ALL glass eels EXPORTED primarily to Hong Kong, some to China and South Korea	Nature of Violations (ie: harvest quotas, gear restrictions, closed areas/seasons, licensing/permits, others)	<b>Various violations of state laws</b> ( <i>illegal harvest in states that prohibit harvest, fishing in prohibited areas, fishing out of season, submission of false fishing reports, harvesting over quota, fishing with illegal gear, fishing without harvest licenses, illegal sales to dealers, theft of eels, etc.</i> )  <b>U.S. Lacey Act Violations</b> ( <i>transport/sell/export said illegally harvested eels</i> )
Timeframe: 5 Year Lookback													
Number of Incidents	--MULTIPLE incidents in last 5 years (well over 100+) of illegal HARVEST in violation of state and tribal laws.												
Number of specimens/Size of Seizures (kg)	-Unable to tabulate for this report. Records held by various state jurisdictions. However, one federal investigation, Operation Broken Glass, has documented approximately 23 subjects who have trafficked in over \$10.3 million USD in app. 3,000 kg illegal glass eels.												
Life stage of the harvested <i>Anguilla</i> species	ALL Glass eels												
Trade Routes Used (Country of origin/transit destination)	- Harvested in U.S. and Imported into U.S. from Canada and Caribbean - ALL glass eels EXPORTED primarily to Hong Kong, some to China and South Korea												
Nature of Violations (ie: harvest quotas, gear restrictions, closed areas/seasons, licensing/permits, others)	<b>Various violations of state laws</b> ( <i>illegal harvest in states that prohibit harvest, fishing in prohibited areas, fishing out of season, submission of false fishing reports, harvesting over quota, fishing with illegal gear, fishing without harvest licenses, illegal sales to dealers, theft of eels, etc.</i> )  <b>U.S. Lacey Act Violations</b> ( <i>transport/sell/export said illegally harvested eels</i> )												

<b>D.3</b>	<p>What government department/agency is responsible for the enforcement of the relevant provisions of your national legislation pertaining to the international (export/import) and domestic trade in American Eel in your country? Please provide the name of contact person (s) from this department/agency.</p> <p>U.S. Fish and Wildlife Service Office of Law Enforcement. Senior Special Agent Bryan Landry - +1 (703) 358-2520 – bryan_landry@fws.gov</p>														
<b>D.3.1</b>	<p>What measures/tools are in place in your country to promote and secure the compliance with the relevant provisions pertaining to the trade (international and domestic) of American Eel?</p> <ul style="list-style-type: none"> <li>- STATE Licensing and reporting requirements</li> <li>- FEDERAL regulation requiring import/export license and declaration and inspection upon import/export.</li> </ul>														
<b>D.4</b>	<p>Have there been any reported incidents of illegal trade (export/import) of American Eel in your country?</p> <p style="text-align: center;">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>If 'Yes', please go to question D.4.1 and provide details.</p>														
<b>D. 4.1</b>	<p>If you answered yes, where possible, please provide information on the illegal trade (export/import)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">Timeframe: 5 Years Back</td> </tr> <tr> <td style="width: 25%;">Number of Incidents</td> <td>13 import/export seizures/refused clearances at U.S. ports by U.S. Fish and Wildlife Service OLE (FEDERAL)</td> </tr> <tr> <td>Number of specimens/Size of Seizures(kg)</td> <td>American Glass Eel Seizures/Refused Clearances 2013-present: “20,000 in number”, 33 kg, 22 kg, 181 kg, 500 kg, 120 kg, 2,500 kg, 179 kg, 16 kg, 100 kg, 6 kg = <b>3,624 TOTAL kg. (glass eel net weight) + “20,000 in no.</b></td> </tr> <tr> <td>Life stage of the traded <i>Anguilla</i> species</td> <td>ALL Glass Eels</td> </tr> <tr> <td>Trade Routes Used (Country of origin/transit/Destination)</td> <td>- Harvested in U.S. and Imported into U.S. from Canada and Caribbean. ALL glass eels EXPORTED primarily to Hong Kong, some to China and South Korea</td> </tr> <tr> <td>Nature of Violations (i.e.: violations regarding border declarations/permits, smuggling methods, other)</td> <td><b>U.S. Lacey Act Violations:</b> <i>(transport/sell/export said illegally harvested eels)</i> <b>Various Violations of state laws</b> <i>(illegal harvest in states that prohibit harvest, fishing in prohibited areas, fishing out of season, submission of false fishing reports, harvesting over quota, fishing with illegal gear, fishing without harvest licenses, illegal sales to dealers, theft of eels, etc.)</i></td> </tr> <tr> <td>Method in which the specimens were transported/declared</td> <td><b>Import/Export Violations:</b> Failure to declare, importing/exporting wildlife without federal license, smuggling, false documents, U.S. Customs in-bond manipulations of shipments</td> </tr> </table>	Timeframe: 5 Years Back		Number of Incidents	13 import/export seizures/refused clearances at U.S. ports by U.S. Fish and Wildlife Service OLE (FEDERAL)	Number of specimens/Size of Seizures(kg)	American Glass Eel Seizures/Refused Clearances 2013-present: “20,000 in number”, 33 kg, 22 kg, 181 kg, 500 kg, 120 kg, 2,500 kg, 179 kg, 16 kg, 100 kg, 6 kg = <b>3,624 TOTAL kg. (glass eel net weight) + “20,000 in no.</b>	Life stage of the traded <i>Anguilla</i> species	ALL Glass Eels	Trade Routes Used (Country of origin/transit/Destination)	- Harvested in U.S. and Imported into U.S. from Canada and Caribbean. ALL glass eels EXPORTED primarily to Hong Kong, some to China and South Korea	Nature of Violations (i.e.: violations regarding border declarations/permits, smuggling methods, other)	<b>U.S. Lacey Act Violations:</b> <i>(transport/sell/export said illegally harvested eels)</i> <b>Various Violations of state laws</b> <i>(illegal harvest in states that prohibit harvest, fishing in prohibited areas, fishing out of season, submission of false fishing reports, harvesting over quota, fishing with illegal gear, fishing without harvest licenses, illegal sales to dealers, theft of eels, etc.)</i>	Method in which the specimens were transported/declared	<b>Import/Export Violations:</b> Failure to declare, importing/exporting wildlife without federal license, smuggling, false documents, U.S. Customs in-bond manipulations of shipments
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Method in which the specimens were transported/declared	<b>Import/Export Violations:</b> Failure to declare, importing/exporting wildlife without federal license, smuggling, false documents, U.S. Customs in-bond manipulations of shipments														

<b>D.4.2</b>	<p>Has your country experienced any challenges with the enforcement of relevant provisions pertaining to the harvest of and/or trade in American Eel?</p> <p style="text-align: center;">Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>If yes, please provide details in D.4.3 and D.4.4:</p>
<b>D. 4.3</b>	<p>Please provide details about any enforcement challenges you've experienced with regard to D.4.2.</p> <p>- N/A</p>
<b>D. 4.4</b>	<p>Please describe how you have overcome these enforcement challenges described in D.4.2.</p> <p>- The OLE works closely with state fish and game agencies on joint investigations and enforcement efforts. Intelligence sharing and surveillance efforts can document interstate movements and substantiate U.S. Lacey Act violations.</p>
<b>D. 5</b>	<p>How does your country monitor domestic and international trade in American eel? Does your country have any mechanisms in place that would support this?</p> <p>- The OLE has Special Agents (criminal investigators) located in every U.S. state who work collaboratively with state wildlife officers and game wardens on American eel trafficking investigations. The OLE also has a specialized force of Wildlife Inspectors located at major U.S. Ports of Entry/Exit who regulate the trade in ALL wildlife, including glass eels, through a licensing, declaration and inspection process for all live eel shipments.</p>