Walmart US

Our customers and members count on Walmart to deliver affordable products in a way that is sustainable for people and for the planet. To meet those needs, we work with partners all along the supply chain to improve the sustainability of products we sell. We do this while working to offer quality products, everyday low prices and putting customers in charge of their food choices by helping provide clear, accurate information about food ingredients and production.

Walmart US employs more than 1.5 million U.S. associates at more than 5,000 stores and clubs nationwide.

The below profile is based upon reports by participating Walmart US suppliers and has not been verified by third-party traceability systems.

<table>
<thead>
<tr>
<th>Number of wild caught species used</th>
<th>% volume from certified fisheries</th>
<th>% volume from a FIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>61</td>
<td>77%</td>
<td>21%</td>
</tr>
</tbody>
</table>

**Fishing Methods Used in Associated Fisheries**

- Midwater trawl
- Bottom trawl
- Dredge
- Purse seine
- Seine nets
- Gillnets and entangling nets
- Hook and line
- Longlines
- Handlines and pole-lines
- Rake / hand gathered / hand netted
- Pots and traps

**Summary**

Walmart aspires to help make choices easier and more transparent for people. We serve hundreds of millions of customers every year, and we advocate for them among suppliers to provide more sustainably produced products while maintaining the low prices customers expect.

At Walmart, we value our relationships with the seafood suppliers who are dedicated to providing the highest in quality and safety through practices that promote more sustainable fisheries. We know that seafood is an important source of protein, nutrition, and income for people all over the world. Therefore, we aspire to find our customers safe, affordable, and sustainable seafood that does not negatively impact our oceans. Our goal is to build transparency and continuous improvement in the seafood supply chain so that we can build confidence and provide for our customers now and in the future.

Walmart believes the health of species, fisheries and ecosystems around the world is good for the planet and important to people today and in the future. We are working with our suppliers and partners to track the management of fisheries from which our suppliers source so that we can promote a sustainable supply. We are dedicated to disclosing and making transparent information on the fisheries as reported by our suppliers.

In addition, we care about the men and women in our supply chain and in the seafood industry as a whole, and we are concerned about the ethical recruitment and treatment of workers. While this is a complex issue, we are actively engaged in bringing together numerous stakeholders,
This profile covers all fresh and frozen Walmart seafood sourced and sold in 2019.

https://corporate.walmart.com/ESGReport/

### Associated Fisheries

<table>
<thead>
<tr>
<th>Species and Location</th>
<th>Production Methods</th>
<th>Certification or Improvement Project</th>
<th>Sustainability Ratings</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acadian redfish (Sebastes fasciatus)</td>
<td>Bottom trawl</td>
<td>Certified</td>
<td>Well managed</td>
<td></td>
</tr>
</tbody>
</table>
Fishery countries:
U.S.

Environmental Notes

- This fishery is unlikely to have unacceptable impacts on PET species. PET species that may interact with the fishery include marine mammals, sea turtles and Atlantic sturgeon, but recorded interactions are low.
- This fishery does not pose a risk of serious harm to bycatch species. Major bycatch species include dogfish and skate, of which, thorny skate is overfished. There is a partial strategy in place to ensure the fishery does not hinder the recovery of thorny skate.
- Bottom trawls will directly impact on the sea bed. However, management measures are in place.

General Notes

- **NOAA FSSI 4**: The fishery is not overfished and overfishing is not occurring and the stock biomass is at or above 80% of the biomass that produces maximum sustainable yield.

Caveat

The environmental notes for this fishery are based on a provisional assessment and are not derived from the FishSource profile.

Reference


**Alaska pollock**

*Theragra chalcogramma*

Aleutian Islands, E Bering Sea, Gulf of Alaska

Fishery countries:
U.S.

Environmental Notes

- This fishery is unlikely to have direct impacts on PET species.
- Bycatch for this fishery is considered low and there are mitigation measures in place.
- This fishery is unlikely to have a significant impact on the sea bed.

General Notes

- This fish plays an important role in the marine food web and so potential impacts on the wider marine ecosystem must be monitored.

**Alaska pollock**

*Theragra chalcogramma*

Sea of Okhotsk

Fishery countries:
Russia

Environmental Notes

- This fishery is unlikely to impact PET species.
- Bycatch for this fishery is considered low.
- This fishery is unlikely to have a significant impact on the sea bed.
### General Notes
- No additional notes.

### Albacore
**Thunnus alalunga**
**North Pacific**
**Fishery countries:**
- Canada

#### Longlines
- **Certified**
- **Well managed**

### Environmental Notes
- There are potential risks to sharks with this fishery.
- There is very low bycatch for this fishery.
- This fishery is unlikely to have a significant impact on the sea bed.

### General Notes
- No additional notes.

### American lobster
**Homarus americanus**
**Gaspé Peninsula**
**Fishery countries:**
- Canada

#### Pots and traps
- **Certified**
- **Well managed**

### Environmental Notes
- **Profile not yet complete**

### General Notes
- No additional notes

### American lobster
**Homarus americanus**
**Georges Bank and Off-Shore Nova Scotia**
**Fishery countries:**
- Canada

#### Pots and traps
- **Certified**
- **Well managed**

### Environmental Notes
- Direct effects of the fishery on PET species are thought likely to be low. While entanglement in lobster gear presents a risk to marine mammals, especially North Atlantic right whales, no entanglements of right whales were reported in the MSC public certification report.
- Measures are in place to prevent fishing from hindering the recovery and rebuilding of the main bycatch species.
This fishery is unlikely to have a significant impact on the sea bed.

General Notes

References

Intertek, 2015, MSC Public Certification Report for Eastern Canada Offshore Lobster Fishery

American lobster
Homarus americanus
Gulf of Maine and Georges Bank – US
Gulf of Maine

Fishery countries:
U.S.

Pots and traps  Certified  Well managed

Environmental Notes

- There are potential risks to PET species with this fishery, but mitigation actions are underway.
- Bycatch for this fishery is considered low.
- This fishery is unlikely to have a significant impact on the sea bed.

General Notes

- No additional notes.

American lobster
Homarus americanus
Gulf of St. Lawrence
South

Fishery countries:
Canada

Pots and traps  Certified  Well managed

Environmental Notes

- This fishery is unlikely to impact PET species. The risk to marine mammals of entanglement in lobster gear is considered low.
- Bycatch for this fishery is considered low.
- This fishery is unlikely to have a significant impact on the sea bed.

General Notes

- No additional notes.

American sea scallop
Placopecten magellanicus
US Atlantic

Fishery countries:

Bottom trawl  Dredge  Certified  Well managed
Environmental Notes

- There is potential for turtle interactions with this fishery, but mitigation actions are underway.
- Bycatch is a risk for this fishery, but there are mitigation measures in place.
- Bottom trawls and dredges will directly impact on the sea bed.

General Notes

- No additional notes

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### Argentine red shrimp

*Pleoticus muelleri*

**Pattagonian:**
Argentina inshore

**Fishery countries:**
Argentina

**Environmental Notes**

- There is a lack of public information on interactions with ETP for this fishery.
- There is limited information on bycatch in this fishery but bycatch of hake is a risk.
- Bottom trawls will directly impact on the sea bed.

**General Notes**

**References**

Fishery Progress, Argentina onshore red shrimp - bottom trawl FIP

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### Atlantic cod

*Gadus morhua*

**Icelandic**

**Fishery countries:**
Iceland

**Environmental Notes**

- This fishery is unlikely to have direct impacts on PET species.
- There is bycatch for this fishery but non-target species are retained. Management measures are in place to reduce impacts on retained species.
- The impact depends on the gear type. Bottom trawls will have the greatest impact on the sea bed.

**General Notes**

- No additional notes.

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### Purse seine

**Certified**

**Well managed**
Atlantic herring
Clupea harengus
Icelandic summer-spawning
Fishery countries:
  Iceland

Environmental Notes
- Profile not yet complete.
- Bycatch in this fishery is considered low.
- This fishery is unlikely to have a significant impact on the sea bed.

General Notes
- No additional notes.

Atlantic herring
Clupea harengus
W Newfoundland fall spawners
Fishery countries:
  Canada

Environmental Notes
- Profile not yet complete.

General Notes
- This MSC certification withdrawn (30th January 2019).

Blue crab
Callinectes sapidus
Mexico Gulf of Mexico
Fishery countries:
  Mexico

Environmental Notes
- Profile not yet complete.

General Notes

References
Fishery Progress, Campeche blue crab - pot/trap & ring nets
## Blue Crab
*Callinectes sapidus*

- **US NW Gulf of Mexico**
- **Fishery countries:**
  - U.S.

### Environmental Notes
- There are risks to marine mammals with this fishery.
- Profile not yet complete.

### General Notes
- No additional notes

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## Blue Swimming Crab
*Portunus pelagicus*

- **India**
- **Fishery countries:**
  - India

### Environmental Notes
- There is a lack of information on interactions with PET species in this fishery.
- There is some bycatch of other crabs with this fishery.
- There is a lack of information on habitat impacts in this fishery.

### General Notes

### References
- *Fishery Progress, India Palk Bay blue swimming crab - gillnet*

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## Blue Swimming Crab
*Portunus pelagicus*

- **Java Sea**
- **Fishery countries:**
  - Indonesia

### Environmental Notes
- This fishery is unlikely to impact PET species.
- Bycatch for this fishery is considered low.
- This fishery is unlikely to have a significant impact on the sea bed.

### General Notes

### References
- *Fishery Progress, Indonesian blue swimming crab - gillnet/trap*
Blue swimming crab
*Portunus pelagicus*

- **Fishery countries:** Philippines
- **Gear types:** Gillnets and entangling nets, Pots and traps
- **FIP:** Needs improvement

### Environmental Notes
- There are risks to marine mammals and turtles with this fishery.
- Bycatch varies for this fishery depending on gear type.
- This fishery is unlikely to have a significant impact on the sea bed.

### General Notes

### References
- *Fishery Progress, Philippines blue swimming crab - bottom-set gillnet & pot/trap (PACPI)*
- *Fishery Progress, Philippines blue swimming crab - pot (Saravia Blue Crab)*

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## Thailand

Blue swimming crab
*Portunus pelagicus*

- **Fishery countries:** Thailand
- **Gear types:** Pots and traps
- **FIP:** Needs improvement

### Environmental Notes
- There are risks to sea turtles with this fishery.
- Bycatch is a risk for this fishery.
- Habitat impacts are not well understood. Plans to identify and manage potential impacts are underway.

### General Notes

### References
- *Fishery Progress, Thailand blue swimming crab - bottom gillnet/trap*

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## Vietnam

Blue swimming crab
*Portunus pelagicus*

- **Fishery countries:** Vietnam
- **Gear types:** Gillnets and entangling nets, Pots and traps
- **FIP:** Needs improvement

### Environmental Notes
- There are risks to marine mammals and turtles with this fishery.
- Bycatch varies for this fishery depending on gear type.
- This fishery is unlikely to have a significant impact on the sea bed.

### General Notes

### References
- *Fishery Progress, Indoneisa Jepara blue swimming crab - bottom gillnet*
Environmental Notes

- The risks to sharks and sea turtles with this fishery is considered low.
- There is bycatch for this fishery but non-target species are retained.
- This fishery is unlikely to have a significant impact on the sea bed.

General Notes

References

Fishery Progress, Vietnam blue swimming crab - bottom gillnet/pot/trap

Caribbean spiny lobster

Panulirus argus

Western Central Atlantic

Fishery countries:

- Bahamas

<table>
<thead>
<tr>
<th>Caribbean spiny lobster</th>
<th>Rake / hand gathered / hand netted</th>
<th>Certified</th>
<th>Well managed</th>
</tr>
</thead>
</table>

Environmental Notes

- Profile not yet complete.

General Notes

- No additional notes

Chinook salmon

Oncorhynchus tshawytscha

Alaska - Southeast Alaska

Fishery countries:

- U.S.

<table>
<thead>
<tr>
<th>Chinook salmon</th>
<th>Purse seine</th>
<th>Certified</th>
<th>Well managed</th>
</tr>
</thead>
</table>

Environmental Notes

- This fishery is unlikely to impact PET species.
- Bycatch for this fishery is considered low.
- This fishery is unlikely to have a significant impact on the sea bed.

General Notes

- No additional notes

Chum salmon

Oncorhynchus keta

<table>
<thead>
<tr>
<th>Chum salmon</th>
<th>Purse seine, Gillnets and entangling nets</th>
<th>Certified</th>
<th>Well managed</th>
</tr>
</thead>
</table>
Alaska - Southeast  
Alaska  
Fishery countries:  
U.S.

Environmental Notes

- This fishery is unlikely to impact PET species.  
- Bycatch for this fishery is considered low.  
- This fishery is unlikely to have a significant impact on the sea bed.

General Notes

References

Intertek Moody Marine, 2013, Alaska Salmon Fishery MSC Public Certification Report

Chum salmon  
Oncorhynchus keta  
Alaska - Bristol Bay,  
Prince William Sound  
Fishery countries:  
U.S.  
Purse seine  
Certified  
Well managed  

Environmental Notes

- This fishery is unlikely to impact PET species.  
- Management measures are in place to minimise bycatch of non-target salmon stocks.  
- This fishery is unlikely to have a significant impact on the sea bed.

General Notes

References

Intertek Moody Marine, 2013, Alaska Salmon Fishery MSC Public Certification Report  
MRAG Americas, 2019, 3rd Re-Assessment Report Alaska Salmon Fishery MSC Public Certification Report  
SCS Global, April 2017, MSC Public Certification Report for Annette Islands Reserve Salmon Fishery

Coho salmon  
Oncorhynchus kisutch  
Alaska - Bristol Bay,  
Prince William Sound  
Fishery countries:  
U.S.  
Purse seine, Gillnets and entangling nets  
Certified  
Well managed  

Environmental Notes

- This fishery is unlikely to impact PET species.  
- Bycatch for this fishery is considered low.  
- This fishery is unlikely to have a significant impact on the sea bed.

General Notes

References

Intertek Moody Marine, 2013, Alaska Salmon Fishery MSC Public Certification Report
### Dot-dash grouper

*Epinephelus poecilonotus*

Aru Bay, Arafura Sea and Eastern of Timor Sea

**Fishery countries:**
Indonesia

<table>
<thead>
<tr>
<th>Fishing Method</th>
<th>FIP</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Longlines</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Handlines and pole-lines</td>
<td></td>
<td>Needs improvement</td>
</tr>
</tbody>
</table>

**Environmental Notes**

- Profile not yet complete.

**General Notes**

- This Indonesian multispecies fishery captures Snappers nei, Groupers nei and other reef fishes. There is as yet no consensus as to the stock structure of these species. This profile may undergo restructuring in the future as new information comes to light.

**References**

Fishery Progress, Aru, Arafura and Timor Seas snapper and grouper – handlines, bottom set longline

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### Dungeness crab

*Cancer magister*

Oregon

**Fishery countries:**
U.S.

<table>
<thead>
<tr>
<th>Fishing Method</th>
<th>FIP</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pots and traps</td>
<td>Not certified or in a FIP</td>
<td>Managed</td>
</tr>
</tbody>
</table>

**Environmental Notes**

- This fishery is unlikely to impact PET species.
- Bycatch for this fishery is considered low.
- This fishery is unlikely to have a significant impact on the sea bed.

**General Notes**

- No additional notes

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### Duskytail grouper

*Epinephelus bleekeri*

Aru Bay, Arafura Sea and Eastern of Timor Sea

**Fishery countries:**
Indonesia

<table>
<thead>
<tr>
<th>Fishing Method</th>
<th>FIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Longlines</td>
<td></td>
</tr>
<tr>
<td>Handlines and pole-lines</td>
<td></td>
</tr>
</tbody>
</table>

**Environmental Notes**

- FishSource Needs Improvement
Profile not yet complete.

General Notes

- This Indonesian multispecies fishery captures Snappers nei, Groupers nei and other reef fishes. There is as yet no consensus as to the stock structure of these species. This profile may undergo restructuring in the future as new information comes to light.

References

Fishery Progress, Indonesia Aru and Arafura demersal fish – longline

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European plaice

Pleuronectes platessa

Seine nets  
Certified  
Well managed  
Icelandic

Fishery countries:  
Iceland

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Environmental Notes

- This fishery is unlikely to cause unacceptable impacts to PET species.
- There is bycatch for this fishery but management measures are in place to reduce impacts.
- This fishery is unlikely to have a significant impact on the sea bed.

General Notes

- No additional notes.

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Golden king crab

Lithodes aequispinus

Pots and traps  
Certified  
Well managed  
Aleutian Islands –  
east of 174°W

Fishery countries:  
U.S.

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Environmental Notes

- Information on interactions with PET species is not available.
- Bycatch is a significant risk for this fishery.
- Bottom trawls will directly impact on the sea bed. However, management measures are in place.

General Notes

- No additional notes.

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Gold-spot octopus

Amphioctopus fangsiao

Hook and line  
FIP  
Sustainability  
not rated  
China

Fishery countries:  
China
Greasy grouper
*Epinephelus tauvina*

Aru Bay, Arafura Sea and Eastern of Timor Sea

Fishery countries:
- Indonesia

### General Notes
- This Indonesian multispecies fishery captures Snappers nei, Groupers nei and other reef fishes. There is as yet no consensus as to the stock structure of these species. This profile may undergo restructuring in the future as new information comes to light.

### References
- Fishery Progress, Aru, Arafura and Timor Seas snapper and grouper - handlines, bottom set longline

Haddock
*Melanogrammus aeglefinus*

Barents Sea

Fishery countries:
- Russia

### General Notes
- There are risks to PET species with this fishery, particularly golden redfish, but there are mitigation measures in place.
- Bycatch is considered low for this fishery.
- Bottom trawls will directly impact on the sea bed.

### References
- Marine Stewardship Council, Barents Sea cod, haddock and saithe
**Environmental Notes**

- There are risks to PET species with this fishery, but there are mitigation measures in place.
- There is bycatch for this fishery but non-target species are retained. Management measures are in place to reduce impacts on retained species.
- Bottom trawls will directly impact the sea bed. However, management measures are in place.

**General Notes**

- No additional notes

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**Environmental Notes**

- This fishery is unlikely to impact PET species. Longlines present a hazard to turtles, seabirds and sharks but these risks can be reduced through proper management of fishing gear.
- Bycatch for this fishery is considered low.
- This fishery is unlikely to have a significant impact on the sea bed.

**General Notes**

- No additional notes

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**Environmental Notes**

- There are risks to marine mammals with this fishery.
- Bycatch is a risk for this fishery.
- Bottom trawls will directly impact on the sea bed. Measures to protect vulnerable habitats such as cold water coral reefs are in place.

**General Notes**

- No additional notes

**References**
### Jonah Crab

- **Scientific Name:** Cancer borealis
- **Fishery Type:** Pots and traps
- **Status:** Not certified or in a FIP
- **Managed:** Yes

**Environmental Notes:**
- Profile not yet complete.

**General Notes:**
- This fishery was in the Jonah Crab FIP from 2014-2017.

**References**
- Gulf of Maine Research Institute, Jonah Crab Fishery Improvement Project
- Fishery Progress, US Jonah crab - pot/trap

### Jumbo Flying Squid

- **Scientific Name:** Dosidicus gigas
- **Fishery Type:** Handlines and pole-lines
- **Status:** FIP
- **Managed:** Yes

**Environmental Notes:**
- This fishery is unlikely to impact PET species.
- Bycatch in this fishery is considered low.
- This fishery is unlikely to have a significant impact on the sea bed.

**General Notes**

**References**
- Fishery Progress, Peruvian jumbo flying squid - jig

### Kiddi Shrimp

- **Scientific Name:** Parapenaeopsis stylifera
- **Fishery Type:** Bottom trawl
- **Status:** FIP
- **Sustainability:** Not rated

**Environmental Notes**
Mahi-mahi  
*Coryphaena hippurus*  
Eastern Pacific  
Ocean  
Fishery countries:  
Ecuador

**Environmental Notes**
- There are risks to turtles, sharks and seabirds with this fishery.
- Bycatch is a significant risk for this fishery.
- This fishery is unlikely to have a significant impact on the sea bed.

**General Notes**

**References**

Fishery Progress, *India Kerala shrimp and cephalopods - trawl*

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Mahi-mahi  
*Coryphaena hippurus*  
Eastern Pacific  
Ocean  
Fishery countries:  
Peru

**Environmental Notes**
- There are risks to turtles and seabirds with this fishery.
- Bycatch is a significant risk for this fishery.
- This fishery is unlikely to have a significant impact on the sea bed.

**General Notes**

**References**

Fishery Progress, *Ecuador mahi-mahi - longline (WWF)*

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Mitre squid  
*Loligo chinensis*  
China  
Fishery countries:

**Environmental Notes**
- Bycatch is a significant risk for this fishery.
- This fishery is unlikely to have a significant impact on the sea bed.

**General Notes**

**References**

Fishery Progress, *Peru mahi-mahi - longline (WWF)*
China

Environmental Notes
- There are risks to PET species with this fishery, but there is insufficient data available to assess significance.
- There is a lack of information on bycatch in this fishery.
- This fishery is unlikely to have a significant impact on the sea bed.

General Notes

References
Fishery Progress, Shantou-Taiwan Chinese common squid – jigging/single trawl

Mytilus mussels
- Mytilus spp.
- Chinese waters
- Fishery countries: China

| Rake / hand gathered / hand netted | Not certified or in a FIP | Sustainability not rated |

Environmental Notes
- Profile not yet complete.

General Notes
- Walmart US discontinued this item after Q2 2019.

North Pacific hake
- Merluccius productus
- NE Pacific
- Fishery countries: U.S., Canada

| Midwater trawl | Certified | Well managed |

Environmental Notes
- This fishery is unlikely to impact PET species.
- Bycatch in this fishery is considered low.
- This fishery is unlikely to have a significant impact on the sea bed.

General Notes
- No additional notes.

Northern brown shrimp
- Penaeus aztecus

| Rake / hand gathered / hand netted | FIP | Needs improvement |

Environmental Notes
- Profile not yet complete.

General Notes
- Profile not yet complete.

References
Fishery Progress, Shantou-Taiwan Chinese common squid – jigging/single trawl
Northern Gulf of Mexico - Louisiana

**Fishery countries:**
- U.S.

### Environmental Notes
- There are risks to sea turtles with this fishery.
- Bycatch is a risk for this fishery.
- Bottom trawls will directly impact on the sea bed.

### General Notes

### References

*Fishery Progress, Louisiana shrimp - otter/skimmer trawl*

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**Northern quahog**
*Mercenaria mercenaria*

**US NW Atlantic Coast**

**Fishery countries:**
- U.S.

<table>
<thead>
<tr>
<th>Method</th>
<th>Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dredge</td>
<td>Not certified or in a FIP</td>
</tr>
<tr>
<td>Rake / hand gathered / hand netted</td>
<td>Sustainability not rated</td>
</tr>
</tbody>
</table>

### Environmental Notes
- This fishery is unlikely to impact PET species.
- Bycatch for this fishery is considered low.
- This fishery is unlikely to have a significant impact on the sea bed.

### General Notes
- No additional notes

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**Northern red snapper**
*Lutjanus campechanus*

**Mexico Gulf of Mexico**

**Fishery countries:**
- Mexico

### Environmental Notes
- This fishery is unlikely to impact PET species.
- Bycatch is a considered low for this fishery.
- This fishery is unlikely to have a significant impact on the sea bed.

### General Notes
- No additional notes
Northern white shrimp
*Penaeus setiferus*
Northern Gulf of Mexico – Louisiana
Fishery countries: U.S.

Environmental Notes
- There is potential for turtle interactions with this fishery, but excluder devices are fitted to nets for protection.
- Bycatch is a risk for this fishery, but there are mitigation measures in place.
- Bottom trawls will directly impact on the sea bed.

General Notes

References
*Fishery Progress, US Louisiana shrimp – otter/skimmer trawl*

Ocean shrimp
*Pandalus jordani*
Eastern Pacific – US Oregon
Fishery countries: U.S.

Environmental Notes
- This fishery is unlikely to impact PET species.
- Bycatch for this fishery is considered low.
- Bottom trawls will directly impact on the sea bed. However, management measures are in place.

General Notes
- No additional notes.

Orange roughy
*Hoplostethus atlanticus*
East and South Chatham Rise
Fishery countries: New Zealand

Environmental Notes
- This fishery is unlikely to impact PET species.
- Bycatch for this fishery is considered low.
- Bottom trawls will directly impact on the sea bed.

General Notes
Pacific cod
Gadus macrocephalus

Environment Notes
• There are risks to seabirds and marine mammals with this fishery, but there are mitigation measures in place.
• Bycatch for this fishery includes other fish, skates and sea birds, but there is insufficient data available to assess significance.
• The impact depends on the gear type. Bottom trawls will directly impact on the sea bed.

General Notes
• No additional notes.

Environment Notes
• There are risks to seabirds and marine mammals with this fishery, but there are mitigation measures in place.
• Bycatch for this fishery includes other fish, skates and sea birds, but there is insufficient data available to assess significance.
• The impact depends on the gear type. Bottom trawls will have the greatest impact on the sea bed.

General Notes
• No additional notes.

Environment Notes
• There are risks to seabirds and marine mammals with this fishery, but there are mitigation measures in place.
• Bycatch for this fishery is considered low.
• Bottom trawls will directly impact on the sea bed. However, management measures are in place.
### Pacific halibut

**Hippoglossus stenolepis**

**NE Pacific**

**Fishery countries:**
- U.S.

<table>
<thead>
<tr>
<th>Method</th>
<th>Certification</th>
<th>Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Longlines</td>
<td>Certified</td>
<td>Well managed</td>
</tr>
</tbody>
</table>

**Environmental Notes**

- There are risks to seabirds with this fishery, but there are mitigation measures in place.
- Bycatch is a risk for this fishery, but there is insufficient data available to assess significance.
- This fishery is unlikely to have a significant impact on the sea bed.

### Penaeus shrimps

**Penaeus spp.**

**South China Sea, East China Sea**

**Fishery countries:**
- China

<table>
<thead>
<tr>
<th>Method</th>
<th>Certification</th>
<th>Sustainability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bottom trawl</td>
<td>Not certified or in a FIP</td>
<td>not rated</td>
</tr>
</tbody>
</table>

**Environmental Notes**

- Profile not yet complete.
- Bycatch is a risk for this fishery.
- Bottom trawls will directly impact on the sea bed.

**General Notes**

- Walmart US discontinued this product after Q2 2019.

### Pink salmon

**Oncorhynchus gorbuscha**

**Southeast Alaska**

**Fishery countries:**
- U.S.

<table>
<thead>
<tr>
<th>Method</th>
<th>Certification</th>
<th>Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purse seine</td>
<td>Certified</td>
<td>Well managed</td>
</tr>
</tbody>
</table>

**Environmental Notes**

- Profile not yet complete.
- Bycatch is a risk for this fishery.
While encounters with marine mammals and birds have been documented in the Alaskan fishery, the impact on PET species is not thought to be significant. There is no risk of bycatch for this fishery. Catches of other salmon species are accounted for in the pink salmon management. This fishery is unlikely to have a significant impact on the benthic habitat.

General Notes

References

Intertek Moody Marine, 2013, MSC Public Certification Report for Alaska Salmon Fishery

Pink salmon

*Oncorhynchus gorbuscha*

Russia – Iturup Island
Sakhalin

Fishery countries:
Russia

Purse seine
Certified
Well managed

Pots and traps

Environmental Notes

- Profile not yet complete.

General Notes

- No additional notes

Pink salmon

*Oncorhynchus gorbuscha*

Russia – West
Kamchatka

Fishery countries:
Russia

Pots and traps
Certified
Well managed

Environmental Notes

- This fishery is unlikely to impact PET species.
- Bycatch for this fishery is considered low.
- This fishery is unlikely to have a significant impact on the benthic habitat.

General Notes

References

MRAG Americas, September 2016, MSC Public Certification Report for VA-Delta Kamchatka Salmon Fisheries

Queen crab

*Chionoecetes opilio*

Alaska

Pots and traps
Certified
Well managed
Fishery countries:
- U.S.

**Environmental Notes**
- This fishery is unlikely to impact PET species.
- Bycatch for this fishery is considered low.
- This fishery is unlikely to have a significant impact on the sea bed.

**General Notes**
- This fishery is certified through the Alaska Responsible Fisheries Management (RFM) Program.

**References**
- Alaska Seafood Marketing Institute, RFM Certification: Alaska Crab

---

**Queen crab**
*Chionoecetes opilio*

NW Atlantic – Newfoundland and Labrador

Fishery countries:
- Canada

<table>
<thead>
<tr>
<th>Fishing Method</th>
<th>Certification</th>
<th>Sustainability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pots and traps</td>
<td>Certified</td>
<td>Well managed</td>
</tr>
</tbody>
</table>

**Environmental Notes**
- This fishery is unlikely to impact PET species.
- Bycatch for this fishery is considered low.
- This fishery is unlikely to have a significant impact on the sea bed.

**General Notes**
- No additional notes

**References**
- Fishery Progress, Canada Lake Erie rainbow smelt – trawl

---

**Rainbow smelt**
*Osmerus mordax*

Lake Erie

Fishery countries:
- Canada

<table>
<thead>
<tr>
<th>Fishing Method</th>
<th>FIP</th>
<th>Sustainability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midwater trawl</td>
<td></td>
<td>not rated</td>
</tr>
</tbody>
</table>

**Environmental Notes**
- There is a lack of information on interactions with PET species in this fishery.
- Bycatch is a risk for this fishery, but there is insufficient data available to assess significance.
- Profile not yet complete.

**General Notes**

**References**
- Fishery Progress, Canada Lake Erie rainbow smelt – trawl
Environmental Notes

- There are risks to sea turtles and marine mammals with this fishery, but there is insufficient data available to assess significance.
- Bycatch is a risk for this fishery.
- Habitat impacts in this fishery are not well understood.

General Notes

References

Fishery Progress, Mexico Yucatan red and black grouper - longline

Environmental Notes

- There is a lack of information on interactions with PET species in this fishery.
- Bycatch is a risk for this fishery, but there is insufficient data available to assess significance.
- This fishery is unlikely to have a significant impact on the sea bed.

General Notes

References

Crab Catchers Association, Russia Far East Crab FIP

Environmental Notes

- There is a lack of information on interactions with PET species in this fishery, but the introduced red swamp crawfish presents a risk to native crawfish species.
Bycatch for this fishery is likely to be low.
This fishery takes place in natural freshwater systems and rice fields and is unlikely to have a significant impact on the benthic habitat.

**General Notes**
- As an introduced species, the impacts of the fishery on native species and ecosystems need to be considered.

**References**
- Fishery Progress, China crayfish - pot/trap

---

**Red swamp crawfish**
- *Procambarus clarkii*

- Guadalquivir delta
- Fishery countries:
  - Spain

<table>
<thead>
<tr>
<th>Pots and traps</th>
<th>Prospective FIP</th>
<th>Sustainability</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>not rated</td>
</tr>
</tbody>
</table>

**Environmental Notes**
- There is a lack of information on interactions with PET species in this fishery. The only known significant impact with this fishery is the effect of the introduced crawfish species on the indigenous crawfish species.
- Bycatch for this fishery is considered low.
- This is a freshwater fishery close to rice fields, so the habitat impact is very limited.

**General Notes**

**References**
- Fishery Progress, PROSPECTIVE Spain red swamp crayfish – fyke net

---

**Saithe**
- *Pollachius virens*

- Icelandic waters
- Fishery countries:
  - Iceland

<table>
<thead>
<tr>
<th>Longlines</th>
<th>Certified</th>
<th>Well managed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>certified</td>
<td>well managed</td>
</tr>
</tbody>
</table>

**Environmental Notes**
- This fishery is unlikely to have significant impacts on PET species.
- Bycatch in this fishery is considered low.
- This fishery is unlikely to have a significant impact on the sea bed.

**General Notes**
- As a mixed fishery, the effects of management measures on other species need to be considered within an ecosystem context.

**References**
- Vottunarstofan Tún ehf., September 2014, MSC Public Certification Report for the ISF Iceland saithe fishery
Snappers nei
Lutjanus spp.
Aru Bay, Arafura Sea
and Eastern of Timor Sea
Fishery countries: Indonesia

Environmental Notes
- This fishery is unlikely to have a significant impact on the sea bed.
- Profile not yet complete.

General Notes

References
Fishery Progress, Indonesia Aru and Arafura demersal fish – longline

Snappers nei
Lutjanus spp.
Java Sea
Fishery countries: Indonesia

Environmental Notes
- Profile not yet complete.

General Notes

References
Fishery Progress, Indonesia snapper and grouper – bottom longline, dropline, trap, and gillnet (ADI)

Sockeye salmon
Oncorhynchus nerka
Alaska – Annette Island Reserve, Bristol Bay, Westward Alaska
Fishery countries: U.S.

Environmental Notes
- This fishery is unlikely to impact PET species.
- Bycatch for this fishery is considered low.
- This fishery is unlikely to have a significant impact on the benthic habitat.

General Notes
South Pacific hake
Merluccius gayi peruanus
Peruvian
Fishery countries:
Peru

Environmental Notes
- This fishery is unlikely to impact PET species.
- Bycatch for this fishery is considered low.
- Bottom trawls will directly impact on the sea bed.

General Notes
References
Fishery Progress, Peruvian hake – industrial bottom trawl

Southern king crab
Lithodes santolla
Gulf of St. Jorge and SW Atlantic – Argentina federal
Fishery countries:
Argentina

Environmental Notes
- This fishery is unlikely to impact PET species, but available data is still limited.
- Bycatch for this fishery is considered low.
- This fishery is unlikely to have a significant impact on the sea bed.

General Notes
References
Fish Info & Services, INIDEP – Instituto Nacional de Investigación y Desarrollo Pesquero

Southern red snapper
Lutjanus purpureus
Brazil
Fishery countries:
Brazil
Environmental Notes

- The interaction of this fishery with PET species is unknown.
- Bycatch for this fishery is a risk.
- This fishery is unlikely to have a significant impact on the sea bed.

General Notes

References

Fishery Progress, Northern Brazil Caribbean red snapper - pot/trap

Spotted rose snapper

*Lutjanus guttatus*

Costa Rica Pacific

Fishery countries:
Costa Rica

Environmental Notes

- Profile not yet complete.

General Notes

- No additional notes.

Swordfish

*Xiphias gladius*

Indian Ocean

Fishery countries:
Indonesia

Environmental Notes

- There is a risk to PET species with this fishery. Longlines present a hazard to turtles, seabirds and sharks, but these risks can be reduced through proper management of fishing gear.
- Bycatch for this fishery includes tuna, billfish and sharks.
- This fishery is unlikely to have a significant impact on the sea bed.

General Notes

References

Fishery Progress, Indonesia/Indian Ocean tuna and large pelagics - longline

Walleye

*Sander vitreus*

Gillnets and entangling nets

Certified

Well managed
Lake Erie western and central
Fishery countries:
Canada

Environmental Notes
- There are risks to PET species with this fishery, but there is insufficient data available to assess significance.
- There is a lack of information on bycatch in this fishery.
- Profile not yet complete.

General Notes
- No additional notes

Warty swimming crab
- *Portunus haanii*
- China
- Fishery countries:
  - China

Environmental Notes
- Profile not yet complete.

General Notes

References
Fishery Progress, China Fujian Zhangzhou red swimming crab – bottom trawl & pot/trap

Wellington flying squid
- *Nototodarus sloanii*
- NZ Southern Islands
- Fishery countries:
  - New Zealand

Environmental Notes
- There are risks to seabirds and marine mammals with this fishery, but there are mitigation measures in place.
- Bycatch for this fishery is considered low.
- Midwater trawls may have an occasional but cumulative impact.

General Notes
- This fish plays an important role in the marine food web and so potential impacts on the wider marine ecosystem must be monitored.
Whiskered velvet shrimp
Metapenaeopsis barbata
East China Sea and South China Sea
Fishery countries: China

Environmental Notes
- Profile not yet complete.

General Notes
- Walmart US discontinued this item after Q2 2019.

Yellowfin sole
Limanda aspera
Bering Sea and Aleutian Islands
Fishery countries: U.S.

Environmental Notes
- This fishery is unlikely to impact PET species.
- Bycatch for this fishery is considered low.
- Bottom trawls will directly impact on the sea bed.

General Notes
- NOAA FSSI 4: The fishery is not overfished and overfishing is not occurring and the stock biomass is at or above 80% of the biomass that produces maximum sustainable yield.

References
MRAG Americas, 2015, MSC Public Certification Report for Bering Sea-Aleutian Islands Alaska Flatfish Fishery

Yellowfin tuna
Thunnus albacares
Indian Ocean
Fishery countries: Indonesia

Environmental Notes
- This fishery is unlikely to impact PET species.
- Bycatch for this fishery is considered low.
- This fishery is unlikely to have a significant impact on the sea bed.

General Notes
Environmental Notes

- This fishery is unlikely to impact PET species.
- Bycatch is a risk for this fishery, but there is insufficient data available to assess significance.
- This fishery is unlikely to have a significant impact on the sea bed.

General Notes

- No additional notes.
## Environmental Notes
- This fishery is unlikely to impact PET species.
- Bycatch is considered low for this fishery.
- This fishery is unlikely to have a significant impact on the sea bed.

## General Notes

## References

**Fishery Progress, Indonesia Western and Central Pacific Ocean yellowfin tuna – handline**

<table>
<thead>
<tr>
<th>Yellowfin tuna</th>
<th>Handlines and pole-lines</th>
<th>FIP</th>
<th>Managed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thunnus albacares</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western and Central Pacific Ocean</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fishery countries:</td>
<td>Indonesia</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Environmental Notes
- This fishery is unlikely to impact protected, endangered and threatened (PET) species.
- Bycatch is considered low for this fishery.
- This fishery is unlikely to have a significant impact on the sea bed.

## General Notes

This fishery entered MSC Full Assessment in November 2019.

## References

**Fishery Progress, Indonesia Western and Central Pacific Ocean yellowfin tuna – pole & line**

**Marine Stewardship Council, Indonesia pole-and-line and handline, skipjack and yellowfin tuna of Western and Central Pacific archipelagic waters**

<table>
<thead>
<tr>
<th>Yellowtail rockfish</th>
<th>Bottom trawl</th>
<th>Certified</th>
<th>Well managed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sebastes flavidus</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>US West Coast – Northern Management area, Southern Management area</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fishery countries:</td>
<td>U.S.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Environmental Notes
- Profile not yet complete.

## General Notes

- **NOAA FSSI 4**: The fishery is not overfished and overfishing is not occurring and the stock biomass is at or above 80% of the biomass that produces maximum sustainable yield.
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