Beaver Street Fisheries, Inc.

Beaver Street Fisheries is a leading importer, manufacturer and distributor of quality frozen seafood products from the USA and around the world. With headquarters in Jacksonville, Florida, a vertically integrated supply chain, and the advantage of both on-site and off-shore processing capabilities, Beaver Street Fisheries offers a wide variety of products, competitive pricing, and can satisfy the diverse needs of wholesale, retail, institutional and foodservice operators.

The success and reputation that Beaver Street Fisheries enjoys is attributed to its dedication to undeniable quality, efficient, and attentive service and the disciplined exercise of a single principle, "Treat the customer as you would a friend and all else will follow."

2021

Number of Wild-Caught Species	Number of Certified Wild-Caught Species	Number of Wild-Caught Species in a FIP	Number of Farmed Species	Number of Certified Farmed Species
26	14	7	10	9

Production Methods Used				
• 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	• Farmed

Summary

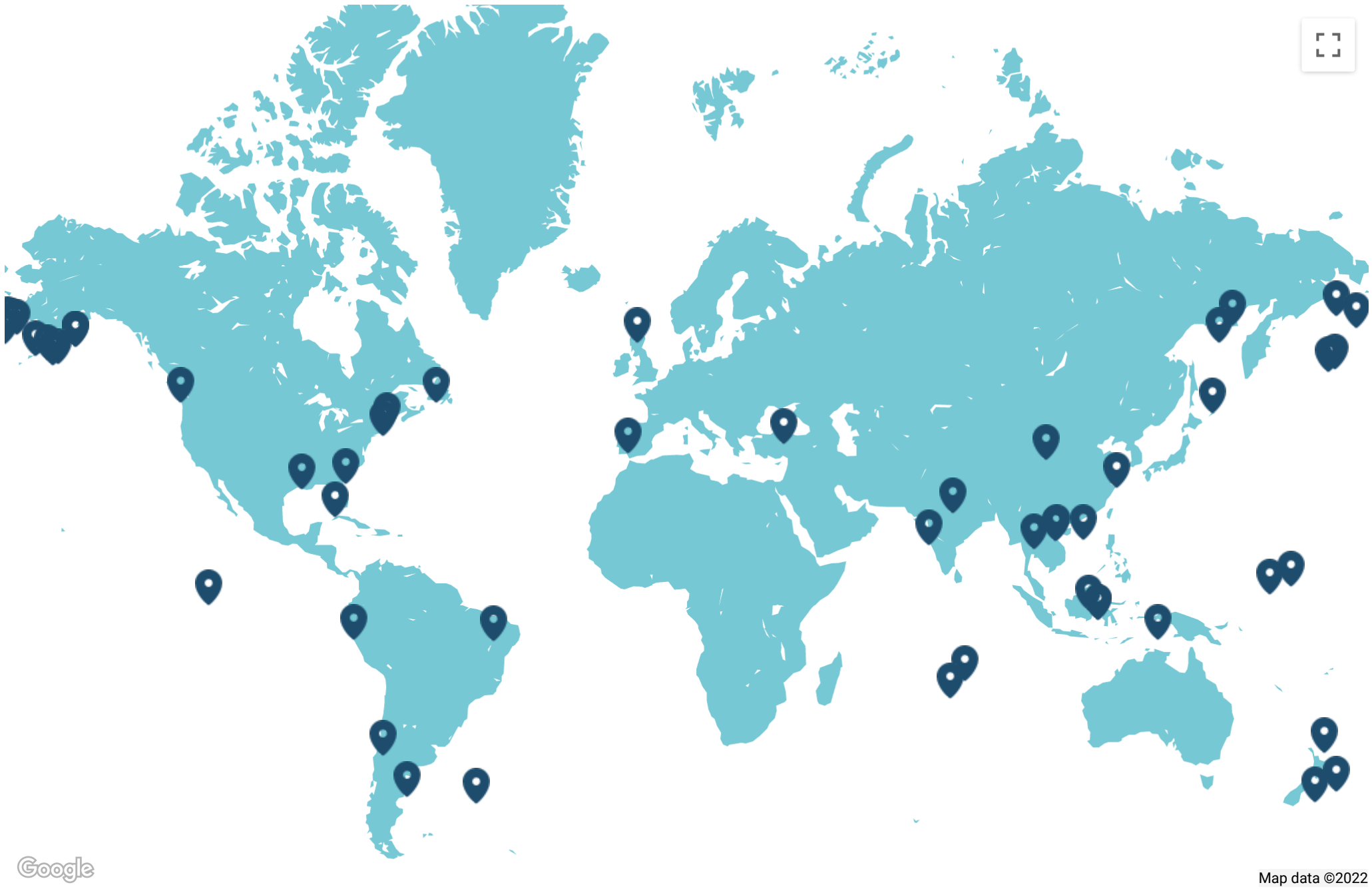
For over seventy year, Beaver Street Fisheries has always been a leader in the seafood industry, and we understand that we have a global responsibility to support and sustain the earth and its ecosystems. As part of our commitment to sustainability and responsible sourcing, we work closely with our supply chain partners to embrace strategies to support the ever-growing need for responsible seafood from around the world. We do this by working with standard-setting organizations for wild caught and aquaculture seafood. Additionally, we have partnered with Sustainable Fisheries Partnership (SFP) to help us develop and implement fishery improvement projects for both wild and farmed raised species. The improvement projects are designed to bring common stakeholders together to establish goals and collaboratively improve the environmental and social quality of the seafood production in a particular area using best practices.

This disclosure contains a list of fresh and frozen, wild-caught and aquaculture seafood sourced and sold in 2020.

To learn more about Beaver Street Fisheries, Inc., the responsible organizations we support, and our current initiatives, please refer to the web addresses below:

- http://www.beaverstreetfisheries.com/partnerships.php
- http://www.beaverstreetfisheries.com/current-initiatives.php
- https://fishchoice.com/seafood-supplier/beaver-street-fisheries-inc

Associated Fisheries



Alaska plaice *Pleuronectes quadrituberculatus* **Bering Sea and Aleutian Islands** **Fishery countries:** United States	Bottom trawl	**Certified**	**FishSource** Well Managed **Seafood Watch** Eco-Certification Recommended	⌄

Ocean Wise
Recommended

Environmental Notes

- Profile not yet complete.

General Notes

- No additional notes.

Midwater trawl

Certified

FishSource
Well Managed

Alaska pollock
Theragra chalcogramma

Aleutian Islands

Fishery countries:
United States

Seafood Watch
Eco-Certification
Recommended

Good Fish Guide
Best Choice 1

Ocean Wise
Recommended

NOAA FSSI
4

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, but occasional impacts may occur.

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

Gulf of Alaska

Fishery countries:
United States

Midwater trawl

Bottom trawl

Certified

FishSource
Well Managed

Seafood Watch
Eco-Certification Recommended

Good Fish Guide
Best Choice 1

Ocean Wise
Recommended

NOAA FSSI
4

Environmental Notes

- This fishery is unlikely to have direct impacts on 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 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

Midwater trawl

Seine nets

Certified

FishSource
Well Managed

Seafood Watch
Eco-Certification
Recommended

Good Fish Guide
Best Choice 1

Ocean Wise
Recommended

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.

American cupped oyster
Crassostrea virginica

Louisiana

Fishery countries:
United States

Dredge

Certified

FishSource
Well Managed

Seafood Watch
Eco-Certification
Recommended

Ocean Wise

Recommended

Environmental Notes

- Profile not yet complete.

General Notes

- No additional notes

FishSource
Well Managed

Seafood Watch
Good Alternative

American lobster
Homarus americanus

Georges Bank and Off-Shore Nova Scotia

Fishery countries:
Canada

Pots and traps

Certified

Good Fish Guide
Best Choice 2

Ocean Wise
Not recommended

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

Seafood Watch
Eco-Certification
Recommended

Ocean Wise
Recommended

NOAA FSSI
4

American sea scallop
Placopecten magellanicus

US Atlantic - Mid-Atlantic Bight

Fishery countries:
United States

Dredge

Certified

Environmental Notes

- There are risks to sea turtles with this fishery, but there are mitigation measures in place.
- Bycatch is a risk in this fishery.
- Dredges will directly impact on the sea bed.

General Notes

- No additional notes.

Argentine red shrimp

Bottom trawl

FIP

FishSource
Managed

Pleoticus muelleri

Patagonian: Argentina offshore industrial

Fishery countries:
Argentina

Seafood Watch
Avoid

Ocean Wise
Not recommended

Environmental Notes

- There are risks to sharks and rays with this fishery.
- Bycatch of hake is a risk with this fishery.
- Bottom trawls directly impact on the sea bed.

General Notes

References

Fishery Progress, Argentina offshore red shrimp - bottom trawl

Atlantic salmon
Salmo salar

Chile

Fishery countries:
Chile

Farmed

Certified

FishSource
Managed

Seafood Watch
Good Alternative

Ocean Wise

Not recommended

Environmental Notes

- Salmon rely on wild capture fisheries for feed. At least 50% of the feed used in certified production is required to be responsibly or sustainably sourced.
- There are concerns about the impact of farmed salmon escapes and disease outbreaks on wild salmonids. Overall, the Chilean industry continues to struggle with the control of bacterial diseases and sea lice parasites as indicated by the very high levels of treatment.
- Direct impacts on water quality at the site are unlikely, but there is potential for cumulative impacts in densely farmed areas. The use of antibiotic and pesticides in Chile is high; studies on impact are limited.

General Notes

A zonal management approach has been adopted based on licenses (concessions); groups of licenses - Aquaculture Management Areas (AMAs); emergency disease zones - Macro Zones; and Areas Autorizadas para el ejercicio de la Acuicultura - Appropriate Areas for Aquaculture (AAA).

References

FishSource, Salmon - Chile

Good Fish Guide, Atlantic salmon, Chile

Ocean Wise, Atlantic salmon, Chile

Seafood Watch, Farmed Atlantic Salmon, Chile

FishSource
Managed

Seafood Watch
Eco-Certification
Recommended

Bay scallop
Argopecten irradians

China

Farmed

Certified

Fishery countries:
China

Ocean Wise
Recommended

Environmental Notes

- Farmed scallops are not provided external feed.
- The risk of escape is considered to be low. Relatively few diseases have been reported in scallops. The majority of the source of stock for farmed scallops comes from natural or passive settlement. Due to the lack of data on source stocks, the percentage of production from hatchery-raised broodstock or natural (passive) settlement is difficult to quantify; however, the removal of wild scallops for broodstock is not expected to have any negative impacts on the wild stock.
- Little to no chemicals are used in the culture of scallops. Improved husbandry and cleaning methods rather than use of antibiotics are employed to prevent bacterial infections. No chemicals are used during the grow-out phase of scallop culture. Cleaning solutions (i.e., bleach) used during the hatchery phase are not discharged to the marine environment.

General Notes

References

Seafood Watch, Worldwide Farmed Scallops Report

FishSource
Managed

Seafood Watch
Eco-Certification
Recommended

Blue mussel

Mytilus edulis

Canada

Fishery countries:
Canada

Farmed

Certified

Ocean Wise
Recommended

Species and Location	Production Methods	Certification or Improvement Project	Sustainability Ratings	Notes

Environmental Notes

- No feed inputs are used to support farmed mussels.
- The larval phase of mussels may be transported away from farm sites. The spread of non-native musels and unintentionally introduced species beyond their natural range may be a cause for concern.
- There is no concern regarding pollution from nutrients or organic matter. No feed or nutrient fertilization inputs are used to support farmed mussels, and water quality has been shown to improve at farmed mussel sites.

General Notes

References

Seafood Watch, Farmed Mussels, Worldwide, Best Aquaculture Practices Certified BAP Mussel Standard

 **Blue mussel** *Mytilus edulis* **Chile** **Fishery countries:** Chile	Farmed	**Certified**	**FishSource** Managed **Seafood Watch** Eco-Certification Recommended **Ocean Wise** Recommended	

Environmental Notes

- No feed inputs are used to support farmed mussels.
- The larval phase of mussels may be transported away from farm sites. The spread of non-native musels and unintentionally introduced species beyond their natural range may be a cause for concern.
- There is no concern regarding pollution from nutrients or organic matter. No feed or nutrient fertilization inputs are used to support farmed mussels, and water quality has been shown to improve at farmed mussel sites.

General Notes

References

Seafood Watch, Farmed Mussels, Worldwide, Best Aquaculture Practices Certified BAP Mussel Standard

 **Caribbean spiny lobster** *Panulirus argus* **Northern SW Atlantic** **Fishery countries:** Brazil	Pots and traps	**FIP**	**FishSource** Needs Improvement **Seafood Watch** Avoid	

Ocean Wise
Not recommended

Environmental Notes

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

General Notes

References

Fishery Progress, Brazil red and green lobster - trap

FishSource
Well Managed

Caribbean spiny lobster
Panulirus argus

Western Central Atlantic

Fishery countries:
Bahamas

Rake / hand gathered / hand netted

Certified

Seafood Watch
Eco-Certification Recommended

Ocean Wise
Recommended

Environmental Notes

- Profile not yet complete.

General Notes

- No additional notes

Chum salmon
Oncorhynchus keta

Alaska - Bristol Bay

Fishery countries:
United States

Gillnets and entangling nets

Certified

FishSource
Well Managed

Seafood Watch
Eco-Certification
Recommended

Good Fish Guide
Best Choice 2

Ocean Wise
Recommended

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
MRAG Americas, 2019, 3rd Re-Assessment Report Alaska Salmon Fishery MSC Public Certification Report

Crimson snapper
Lutjanus erythropterus

Indonesia

Fishery countries:
Indonesia

Gillnets and entangling nets
Hook and line
Longlines
Pots and traps

FIP

Sustainability not rated

Environmental Notes

- Profile not yet complete.

General Notes

References

Fishery Progress, Indonesia deepwater groundfish - dropline, longline, trap and gillnet

FishSource
Well Managed

Seafood Watch
Eco-Certification
Recommended

Ocean Wise
Recommended

Dusky rockfish
Sebastes ciliatus

Gulf of Alaska

Fishery countries:
United States

Bottom trawl

Certified

Environmental Notes

- Profile not yet complete.

General Notes

- No additional notes

European seabass *Dicentrarchus labrax* **Turkey** **Fishery countries:** Turkey	Farmed	**Certified**	**FishSource** Managed	
			Seafood Watch Avoid	
			Good Fish Guide Think 3	
			Ocean Wise Not recommended	

Environmental Notes

- Fishmeal and fish oil from marine feed sources are used. At least 50% of the feed used in certified production is required to be responsibly or sustainably sourced.
- Escapes are a concern and little is known about the risk of disease transfer to wild species.
- Impacts on water quality are localized and have not been shown to have cumulative impacts beyond the immediate farm site. Chemical inputs are only used for health management and are applied in a controlled manner. Reports indicate responsible use, but there is a lack of data on the quantity of chemical inputs.

General Notes

The environmental impacts described are addressed to some degree by certification.

References

Good Fish Guide - Bass, seabass (Farmed), Europe, GAA BAP 3* & 4* certified

Seafood Watch report for farmed European sea bass and Gilthead sea bream, Mediterranean Sea

		Certified	**FishSource**

Flathead sole
Hippoglossoides elassodon

Bering Sea and Aleutian Islands

Fishery countries:
United States

Bottom trawl

Well Managed

Seafood Watch
Eco-Certification
Recommended

Ocean Wise
Recommended

Environmental Notes

- Profile not yet complete.

General Notes

- No additional notes.

Japanese threadfin bream
Nemipterus japonicus

Western Indian Ocean

Fishery countries:
India

Bottom trawl

FIP

Sustainability not rated

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

References

Fishery Progress, India threadfin bream - trawl

 **Jonah crab** *Cancer borealis* **US Atlantic** **Fishery countries:** United States	Pots and traps	**Not certified or in a FIP**	**FishSource** Managed **Seafood Watch** Good Alternative **Ocean Wise** Not recommended	

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

 **Mahi-mahi** *Coryphaena hippurus* **Eastern Pacific Ocean** **Fishery countries:** Peru	Longlines	**FIP**	**Seafood Watch** Avoid **Ocean Wise** Not recommended	

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, Peru mahi-mahi - longline (WWF)

Mahi-mahi
Coryphaena hippurus

Western and Central Pacific

Fishery countries:
Taiwan

Longlines

FIP

Seafood Watch
Avoid

Ocean Wise
Not recommended

Environmental Notes

- There are risks to turtles and seabirds with 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

Fishery Progress, Taiwan Hsin-Kang mahi-mahi - longline

Malabar snapper
Lutjanus malabaricus

Indonesia

Fishery countries:
Indonesia

Gillnets and entangling nets
Hook and line
Longlines
Pots and traps

FIP

Sustainability not rated

Environmental Notes

- Profile not yet complete.

General Notes

References

[Fishery Progress, Indonesia deepwater groundfish - dropline, longline, trap and gillnet]

Mitre squid
Loligo chinensis

China

Fishery countries:
China

Purse seine

FIP

FishSource
Needs Improvement

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 nei
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

- No additional notes.

New Zealand mussel
Perna canaliculus

Northern, Southern

Fishery countries:
New Zealand

Dredge

Not certified or in a FIP

Sustainability not rated

Environmental Notes

- Profile not yet complete

General Notes

- No additional notes

			FishSource Managed	
 **Nile tilapia** *Oreochromis niloticus* **Colombia** **Fishery countries:** Colombia	Farmed	**Certified**	**Seafood Watch** Good Alternative **Ocean Wise** Not recommended	

Environmental Notes

- Tilapia typically does not require large inputs of fishmeal and fish oil in commercial feeds. At least 50% of the feed used in certified production is required to be responsibly or sustainably sourced.
- The potential impacts on wild species are limited because tilapia has been historically introduced and actively stocked into the environment.
- The chemical use and the impact of effluent from farm operations have the potential to affect the waterbody.

General Notes

References

Seafood Watch, Farmed Tilapia, Colombia

Seafood Watch, Farmed Tilapia, Global Aquaculture Alliance Certified BAP Standard

 **Northern rockfish** *Sebastes polyspinis* **Bering Sea and Aleutian Islands** **Fishery countries:**	Bottom trawl	**Certified**	**FishSource** Well Managed	

United States

Seafood Watch
Eco-Certification
Recommended

Ocean Wise
Recommended

Environmental Notes

- Profile not yet complete.

General Notes

- No additional notes

Northern rockfish
Sebastes polyspinis

Gulf of Alaska

Fishery countries:
United States

Bottom trawl

Certified

FishSource
Well Managed

Seafood Watch
Eco-Certification
Recommended

Ocean Wise
Recommended

Environmental Notes

- Profile not yet complete.

General Notes

- No additional notes

FishSource
Well Managed

Orange roughy
Hoplostethus atlanticus

East and South Chatham Rise

Fishery countries:
New Zealand

Bottom trawl

Certified

Seafood Watch
Avoid

Ocean Wise
Not recommended

Environmental Notes

- This fishery is believed to have minimal impacts on PET species.
- Bycatch for this fishery is considered low.
- Bottom trawls will directly impact on the sea bed. Potential impacts on coral habitats are a concern.

General Notes

- No additional notes.

Pacific cod
Gadus macrocephalus

Aleutian Islands

Fishery countries:
United States

Bottom trawl

Certified

FishSource
Well Managed

Seafood Watch
Eco-Certification
Recommended

NOAA FSSI
1.5

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.
- Bottom trawls will directly impact on the sea bed. However, management measures are in place.

General Notes

- Concerns about low stock led to the closure of the Alaskan Pacific cod fishery for 2020 (after the reporting period).

Pinjalo
Pinjalo pinjalo

Indonesia

Fishery countries:
Indonesia

Gillnets and entangling nets
Hook and line
Longlines
Pots and traps

FIP

Sustainability not rated

Environmental Notes

- Profile not yet complete.

General Notes

References

Fishery Progress, Indonesia deepwater groundfish - dropline, longline, trap and gillnet

Purse seine

Certified

FishSource
Well Managed

Pink salmon
Oncorhynchus gorbuscha

Russia - Iturup Island Sakhalin

Fishery countries:
Russia

Seafood Watch
Eco-Certification
Recommended

Good Fish Guide
Best Choice 2

Ocean Wise
Not recommended

Environmental Notes

- This fishery is unlikely to impact protected, endangered and threatened (PET) species.
- Bycatch for this fishery is considered low and non-target species are released alive.
- This fishery is unlikely to have a significant impact on the benthic habitat.

General Notes

References
SCS Global Services, 2015, MSC Public Certification Report for Iturup Pink & Chum Salmon Fisheries

Pink salmon
Oncorhynchus gorbuscha

Southeast Alaska

Purse seine

Certified

FishSource
Well Managed

Fishery countries:
United States

Seafood Watch
Eco-Certification
Recommended

Good Fish Guide
Best Choice 1

Ocean Wise
Recommended

Environmental Notes

- 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

Queen crab
Chionoecetes opilio

Northern Sea of Okhotsk

Fishery countries:
Russia

Pots and traps

Not certified or in a FIP

Seafood Watch
Avoid

Ocean Wise
Not recommended

Environmental Notes

- Profile not yet complete

General Notes

- No additional notes

FishSource
Well Managed

Seafood Watch
Eco-Certification
Recommended

Queen crab
Chionoecetes opilio

NW Atlantic - Newfoundland and Labrador

Fishery countries:
Canada

Pots and traps

Certified

Ocean Wise
Recommended

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

Queen crab

Chionoecetes opilio

W Bering Sea

Fishery countries:

Russia

Pots and traps

Not certified or in a FIP

Seafood Watch
Avoid

Ocean Wise
Not recommended

Environmental Notes

- Profile not yet complete

General Notes

- No additional notes

FishSource
Managed

Rainbow trout

Oncorhynchus mykiss

Chile

Fishery countries:

Chile

Farmed

Certified

Seafood Watch
Eco-Certification Recommended

Ocean Wise
Not recommended

Environmental Notes

- Trout have a high requirement for fish in their diet.
- Rainbow trout are not native to Chile but have become established in the wild due to intentional stocking. However, there are still concerns about the impact of farmed salmonid escapes and disease outbreaks on wild fish populations. Available data indicates that large numbers of farmed trout have escaped each year since the early 1990s.
- Production using open net cages and ponds results in the discharge of waste and nutrients directly into the surrounding water.

General Notes

- The environmental impacts described are addressed to some degree by certification.

References

FishSource - salmon, Chile

Seafood Watch, Rainbow trout, Chile, Farmed

Rainbow trout

Onchorynchus mykiss

Peru

Fishery countries:

Peru

Farmed

Certified

FishSource
Managed

Seafood Watch
Good Alternative

Ocean Wise
Recommended

Environmental Notes

- Fishmeal and fish oil from marine feed sources are used. At least 50% of the feed used in certified production is required to be responsibly or sustainably sourced.
- Profile not yet complete.

General Notes

References

Seafood Watch, Farmed Rainbow Trout, Worldwide

Farmed

Not certified or in an AIP

Sustainability not rated

Red drum
Sciaenops ocellatus

China, Vietnam

Fishery countries:
China, Vietnam

Environmental Notes

- Profile not yet complete

General Notes

- No additional notes

Red swamp crawfish
Procambarus clarkii

Guadalquivir delta

Fishery countries:
Spain

Pots and traps

Not certified or in a FIP

Sustainability not rated

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

- No additional notes.

Rock sole
Lepidopsetta bilineata

Gulf of Alaska

Fishery countries:
United States

Bottom trawl

Certified

FishSource
Well Managed

Seafood Watch
Eco-Certification
Recommended

Ocean Wise
Recommended

Environmental Notes

- This fishery is unlikely to impact PET species.
- 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

- No additional notes.

Snappers nei
Lutjanus spp.

Aru Bay, Arafura Sea and Eastern of Timor Sea

Fishery countries:
Indonesia

Handlines and pole-lines

FIP

Sustainability not rated

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 snapper and grouper - bottom longline, dropline, trap, and gillnet (ADI)

Sockeye salmon
Oncorhynchus nerka

Alaska - Bristol Bay

Fishery countries:
United States

Gillnets and entangling nets

Certified

FishSource
Well Managed

Seafood Watch
Eco-Certification
Recommended

Good Fish Guide
Best Choice 2

Ocean Wise
Recommended

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

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

South Pacific hake
Merluccius gayi peruanus

Peruvian

Fishery countries:
Peru

Bottom trawl

FIP

FishSource
Needs Improvement

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 - bottom trawl

Not certified or in

Seafood Watch

Southern king crab *Lithodes santolla* **Gulf of St. Jorge and SW Atlantic - Argentina federal** **Fishery countries:** Argentina	Pots and traps	**a FIP**	Avoid **Ocean Wise** Not recommended

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

- No additional notes.

Striped catfish *Pangasianodon hypophthalmus* **Vietnam** **Fishery countries:** Vietnam	Farmed	**Certified**	**FishSource** Managed **Seafood Watch** Eco-Certification Recommended **Good Fish Guide** Best Choice 2

Ocean Wise
Recommended

Environmental Notes

- Pangasius feed includes low levels of fishmeal and fish oil from marine feed sources. At least 50% of the feed used in certified production is required to be responsibly or sustainably sourced.
- As a native species, the risk to wild populations from escapes is low. However, the effects of disease on pangasius farms upon wild fish populations is unknown. Juveniles used in pangasius farming come from Vietnamese hatcheries and the trade of wild-caught broodstock is limited.
- Panagsius farming in Vietnam is linked to illegal disposal of waste into adjoining waterways with cumulative impacts that contribute to water pollution. However, certified farms are assumed to dispose of waste properly.

General Notes

The environmental impacts described are addressed to some degree by certification.

The government requires pangasius farms to be managed under a zonal approach.

References

FishSource - Pangasius, Vietnam

Seafood Watch, Sutchi catfish, Vietnam, Global Aquaculture Alliance Certified BAP Standard: Pangasius Farms (2, 3, 4-star)

Swordfish
Xiphias gladius

Indian Ocean

Fishery countries:
Indonesia

Longlines

FIP

FishSource
Needs Improvement

Seafood Watch
Avoid

Good Fish Guide
Think 3

Ocean Wise
Not recommended

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 and Western Central Pacific Ocean tuna and large pelagics - longline

FishSource
Managed

Tilapia
Oreochromis spp., Oreochromis niloticus

China

Fishery countries:
China

Farmed

Certified

Seafood Watch
Eco-Certification
Recommended

Ocean Wise
Recommended

Environmental Notes

- Tilapia require relatively low inputs of fishmeal and fishoil from marine feed sources in their diet. However, there are significant concerns about the sustainability of feed inputs from domestic sources, which are produced from fisheries that are fully exploited overexploited, or depleted.
- There is little infomation available regarding impacts of Chinese tilapia production on wild species, includings impacts from escapes, disease outbreaks, and interactions with predators and other wildlife. Nile tilapia are considered highly invasive and there are documented examples of tilapia populations outcompeting local fish species for resources in Chinese waterways. Despite this, there is no information on tilapia escapes at a farm level. In addition, there is little information about on-farm diseases in Chinese tilapia production and disease outbreaks pose a risk to wild fish populations. There is no information regarding interactions with wildlife which may include migrating birds.
- Pollution from nutrients and organic matter, as well as chemical inputs, may affect local water quality. There is limited information regarding on-farm chemical use and the impact of effluent released by tilapia pond‐based farms in China. But there is evidence of the use of illegal chemicals and of antibiotics important to human health in Chinese tilapia production.

General Notes

Area-based approaches to aquaculture are included in the national and provincial legislation, but it is unclear whether zonal approaches to siting and production are used.

The environmental impacts described are addressed to some degree by certification.

References

FishSource - Tilapia, China

Seafood Watch, Tilapia, Global Aquaculture Alliance Certified BAP 2, 3, 4-star

Whiteleg shrimp
Penaeus vannamei

India

Fishery countries:
India

Farmed

Certified

FishSource
Managed

Seafood Watch
Eco-Certification
Recommended

Good Fish Guide
Think 3

Ocean Wise
Not recommended

Environmental Notes

- Fishmeal and fish oil from marine feed sources are used. At least 50% of the feed used in certified production is required to be responsibly or sustainably sourced.
- Disease transfer between farmed and wild prawns is a concern but infrequent water exchange on whiteleg shrimp farms moderates the risk. Whiteleg shrimp are not native to India and there is potential for ecological impacts from escapes.
- Pollution from nutrients and organic matter, as well as chemical inputs, may affect local water quality. Waste discharge from whiteleg shrimp ponds is typically limited to once per production cycle.

General Notes

- The environmental impacts described are addressed to some degree by certification.
- The aquaculture industry is currently managed under a farm-based approach.

References:

FishSource - shrimp, India

Good Fish Guide - Prawn, King (whiteleg), prawns, Global, GAA BAP 4*

Good Fish Guide - Prawn, King (whiteleg), prawns, Global, GAA BAP 2 and 3*

Seafood Watch, Whiteleg shrimp, Farmed, Global Aquaculture Alliance Certified BAP Standard: Finfish and Crustacean Farms (2, 3, 4-star)

Whiteleg shrimp
Penaeus vannamei

Indonesia

Fishery countries:
Indonesia

Farmed

Certified

FishSource
Managed

Seafood Watch
Eco-Certification
Recommended

Good Fish Guide
Think 3

Ocean Wise
Not recommended

Environmental Notes

- Fishmeal and fish oil from marine feed sources are used. Certification criteria encourage the use of responsibly sourced marine products in feed.
- Disease transfer between farmed and wild prawns is a concern. Whiteleg shrimp are not native to Indonesia and there is potential for ecological impacts from escapes.
- Pollution from nutrients and organic matter, as well as chemical inputs, may affect local water quality and cumulative impacts across a region may occur.

General Notes

The environmental impacts described are addressed to some degree by certification.

Legislation on zonal planning that is relevant to aquaculture does exist. A zonal approach to aquaculture is being introduced via an Aquaculture Improvement Project (AIP) in Muncar, Banyuwangi district, East Java.

References

Good Fish Guide - Prawn, King (whiteleg), prawns, Global, GAA BAP 4*

Good Fish Guide - Prawn, King (whiteleg), prawns, Global, GAA BAP 2 and 3*

Seafood Watch, Whiteleg shrimp, Farmed, Global Aquaculture Alliance Certified BAP Standard: Finfish and Crustacean Farms (2, 3, 4-star)

Whiteleg shrimp
Penaeus vannamei

Thailand

Fishery countries:
Thailand

Farmed

Certified

FishSource
Managed

Seafood Watch
Eco-Certification
Recommended

Good Fish Guide
Think 3

Ocean Wise
Not recommended

Environmental Notes

- Fishmeal and fish oil from marine feed sources are used. At least 50% of the feed used in certified production is required to be responsibly or sustainably sourced.
- Disease transfer between farmed and wild prawns is a concern but infrequent water exchange on whiteleg shrimp farms moderates the risk. Whiteleg shrimp are not native to Thailand and there is potential for ecological impacts from escapes.
- Pollution from nutrients and organic matter, as well as chemical inputs, may affect local water quality. Impacts on water quality vary depending on the frequency of waste discharge from ponds.

General Notes

- The environmental impacts described are addressed to some degree by certification.
- Public information on zonal approaches to planning and production of shrimp farming in Thailand is limited.

References

FishSource - Shrimp, Thailand

Good Fish Guide - Prawn, King (whiteleg), prawns, Global, GAA BAP 4*

Good Fish Guide - Prawn, King (whiteleg), prawns, Global, GAA BAP 2 and 3*

Seafood Watch, Whiteleg shrimp, Farmed, Global Aquaculture Alliance Certified BAP Standard: Finfish and Crustacean Farms (2, 3, 4-star)

Whiteleg shrimp
Penaeus vannamei

Vietnam

Fishery countries:
Vietnam

Farmed

Certified

FishSource
Managed

Seafood Watch
Eco-Certification
Recommended

Good Fish Guide
Think 3

Ocean Wise
Not recommended

Environmental Notes

- Fishmeal and fishoil from marine feed sources are used. Certification criteria encourage the use of responsibly sourced marine products in feed.
- Disease transfer between farmed and wild prawns is a concern but infrequent water exchange on whiteleg shrimp farms moderates this risk. Whiteleg shrimp are not native to Vietnam and there is potential for ecological impacts from escapes.
- Pollution from nutrients and organic matter, as well as chemical inputs, may affect local water quality. Waste discharge from whiteleg shrimp ponds is typically limited to once per production cycle, moderating the impact of effluents on water quality. There is a lack of data on the quantity of chemical inputs, but evidence suggests that illegal antibiotics are sometimes used on Vietnamese shrimp farms.

General Notes

- The environmental impacts described are addressed to some degree by certification.
- The aquaculture industry is currently managed under a farm-based approach.

References

FishSource - Shrimp, Vietnam

Good Fish Guide - Prawn, King (whiteleg), prawns, Global, GAA BAP 4*

Good Fish Guide - Prawn, King (whiteleg), prawns, Global, GAA BAP 2 and 3*

Seafood Watch, Whiteleg shrimp, Farmed, Global Aquaculture Alliance Certified BAP Standard: Finfish and Crustacean Farms (2, 3, 4-star)

Yellowfin sole
Limanda aspera

Bering Sea and Aleutian Islands

Fishery countries:
United States

Bottom trawl

Certified

FishSource
Well Managed

Seafood Watch
Best Choice

Ocean Wise
Recommended

NOAA FSSI
4

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

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

Yellowfin tuna
Thunnus albacares

Indian Ocean

Fishery countries:
Indonesia

Handlines and pole-lines

FIP

FishSource
Managed

Seafood Watch
Avoid

Good Fish Guide
Think 4

Ocean Wise
Not recommended

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, Indonesia Indian Ocean yellowfin tuna - pole & line

Yellowfin tuna
Thunnus albacares

Western and Central Pacific Ocean

Fishery countries:
Indonesia

Handlines and pole-lines

FIP

FishSource
Needs Improvement

Seafood Watch
Best Choice

Good Fish Guide
Best Choice 2

Ocean Wise
Recommended

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 and received MSC Certification in January 2021.

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

Yellowtail rockfish
Sebastes flavidus

US West Coast - Northern Management area, Southern Management area

Fishery countries:
United States

Bottom trawl

Certified

FishSource
Well Managed

Seafood Watch
Eco-Certification
Recommended

Ocean Wise
Recommended

NOAA FSSI
4

Environmental Notes

- Profile not yet complete.

General Notes

- No additional notes

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