

# The Seafood Guide

# Introduction

A message from John Rutherford -  
Chief Executive, Seafish



Seafood is one of this country's most popular products, contributing £5.4 billion to the retail and foodservice sector in the UK. Over 70% of the seafood we consume in the UK is sourced from overseas. For example, 95% of the cod we eat comes from outside the North Sea.

We have produced this seafood guide to help you – chefs, caterers and retailers – promote and understand the wonderful array of fish and shellfish available to you. We hope that you find it useful and that it inspires you to include more mouth-watering fish and shellfish dishes on your menus and shelves.

## How Seafish can help you

Seafish, the authority on seafood, is a non-departmental public body, primarily funded by a levy on the first sale of all seafood products in the UK, including imports. We work with all sectors of the seafood industry to help provide a sustainable and profitable future. Our work goes from improving the way we catch seafood to ensuring that it reaches your customer's plate with the highest quality locked in. We provide training, research and advice to everyone in the seafood business, from fishermen to processors and importers, fish and chip shops and top restaurants. We also work on a range of promotional activities to encourage people to eat seafood.

To find out more about what we do, please visit our website – [www.seafish.org](http://www.seafish.org) – which contains over 400 delicious seafood recipes and much, much more.

## Environmental responsibility

Environmental responsibility is a key area for the seafood industry in the 21st century. Seafish is committed to supporting a responsible and efficient industry that balances consumer demand with the conservation of stocks for the future. Fishermen in the UK lead the world in responsible practice and have been working with conservation organisations and statutory agencies for some years to ensure a sustainable future for our seas (for more information see page 50).

To lessen the demand on more traditional types of seafood, Seafish actively encourages consumers to be more adventurous and try a wider range of seafood - an approach that is supported by responsible marine campaigners. There are around 21,000 types of fish and shellfish in the world – so go on, give your customers something a little bit different.



# Contents

We have designed each section to answer the most frequently asked questions.

What's available? And when?

Where was it caught?

Can you tell me more about..?

How can it be prepared?

How should I store it?

What size fish do I need for 10 x 170-200g portions?

What's the best way to cook it?

How much fish & seafood should I have on my menu?

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# Species and availability

Here is a guide to the availability and price of over 100 species.

What's available?  
And when?

Commercial name	Other commercial names (those in brackets are common names but not legal in the UK)	Latin name or family	Form	Alternatives	Commercially farmed	Rough price guide	Details on page...	Availability guide											
								J	F	M	A	M	Jn	Jy	A	S	O	N	D
Anchovies		All species of the family <i>Engraulidae</i>	Round, Warmwater, Oil-rich, Small	Sardines, Herrings			21	Preserved fillets available year-round											
Barracuda		All species of <i>Sphyraena</i>	Round, Warmwater	Kingfish			26												
Barramundi	(Giant Sea Perch)	<i>Lates calcarifer</i>	Round, Warmwater	Large Wild Sea Bass	Y		26												
Bonito	(Tuna)	All species of <i>Sarda</i> , <i>Auxis</i> , <i>Euthynnus</i> (except <i>Euthynnus (Katsuwonus) pelamis</i> )	Round, Warmwater, Oil-rich	Tuna, Mackerel, Kingfish			31						Q	Q	Q				
Bream (freshwater)		<i>Abramis brama</i>	Round, Freshwater	Carp, Zander	Y		40	Q								Q	Q	Q	Q
Bream (sea)	Glithed Bream, Royal Bream, Black Bream, Black Banded Bream, Red Sea Bream, Ray's Bream, Porgy	All species of <i>Sparidae</i> (ex. <i>Boops boops</i> )	Round, Warmwater	Snappers, Emperor, Sea Bass	Y		27					Q	Q	Q					
Brill		<i>Scophthalmus rhombus</i>	Flat, Coldwater	Turbot			15				Q	Q							
Carp	Grass Carp, Mirror Carp	All species of <i>Cyprinidae</i>	Round, Freshwater	Perch, Pike	Y		40	Q								Q	Q	Q	Q
Catfish (freshwater)		All species of the families <i>Clariidae</i> , <i>Siluridae</i> & <i>Bagridae</i>	Round, Freshwater		Y		40												
Catfish (sea)	Wolffish, Rockfish	All species of <i>Anarhichas</i>	Round, Coldwater	Any Cod-like species			22												
Clams	Razor Clams, Venus Clams, Hard Shell, Amande, Praise	All species of <i>Ensis</i> & <i>Solen</i> , <i>Mercenaria mercenaria</i> , <i>Venus verrucosa</i>	Molluscs (bivalve)	Cockles, Mussels			36												
Clams - Palourdes	Carpet Shell Clams	<i>Venerupis decussata</i>	Molluscs (bivalve)	Other Clams			36												
Cockles		All species of <i>Cerastoderma</i>	Molluscs (bivalve)	Clams			36	Q	Q								Q	Q	Q
Cod		All species of <i>Gadus</i>	Round, Coldwater	Haddock, any Cod-like species	Y		19						Q	Q	Q	Q			
Coley	Saithe, Coalfish	<i>Pollachius virens</i>	Round, Coldwater, Cod-like	Any Cod-like species			20												
Conger	Conger Eel	All species of <i>Conger</i>	Round, Coldwater				22												
Crabs	Brown Crabs	All species of the order <i>Brachyura</i> & the family <i>Lithodidae</i>	Crustacean				34			Q	Q	Q	Q			Q	Q	Q	Q
Crawfish	Spiny Lobster, Rock Lobster	All species of <i>Panulirus</i> , <i>Palinurus</i> & <i>Jasus</i>	Crustacean	Lobster			34												
Crayfish	(Ecrevisse)	All species of the family <i>Astacidae</i> , <i>Parastacidae</i> , <i>Austroastacidae</i> , <i>Cambaridae</i>	Crustacean	Langoustines, King Prawns	Y		34	Preserved tail meat available year-round											
Croakers	Drum, Jewfish	All species of <i>Sciaenidae</i>	Round, Warmwater	Snappers			26												
Cuttlefish		All species of <i>Sepia</i> , <i>Rossia macrosoma</i>	Cephalopods	Squid			37	Q	Q									Q	Q
Dab		<i>Limanda limanda</i>	Flat, Coldwater	Plaice, Flounder			17						Q	Q	Q				
Dover Sole		<i>Solea solea</i>	Flat, Coldwater	Lemon Sole			16			Q	Q				Q	Q	Q	Q	Q
Drum	Croakers	All species of <i>Sciaenidae</i>	Round, Warmwater	Snappers	Y		26												

This information is provided as a guide only. Prices and availability fluctuate daily.

	Low price
	Medium price
	High price

	Good availability
	Varying availability
	Poor availability
Q	Time of best quality Species without any 'Q's are of consistent quality all year

Commercial name	Other commercial names (those in brackets are common names but not legal in the UK)	Latin name or family	Form	Alternatives	Commercially farmed	Rough price guide	Details on page...	Availability guide											
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Emperor	Longnose, Spangled, Yellowtail, Snubnose Emperors	All species of <i>Lethrinus</i>	Round, Warmwater	Breams & Snappers			28												
Escolar	Snake Mackerel	All species of family <i>Gempylidae</i>	Round, Warmwater, Game, Oil-rich	Kingfish			31												
Flounder		<i>Platichthys flesus</i>	Flat, Coldwater	Plaice, Dab			17												
Gilthead Bream	Dorade, Royal Bream	<i>Sparus aurata</i>	Round, Warmwater	Other Sea Breams, Sea Bass	Y		27												
Goatfish		<i>Upeneichthys vlamingii</i>	Round, Warmwater	Red Mullet			29												
Grey Mullet		All species of <i>Mugil</i> , <i>Liza</i> & <i>Chelon</i>	Round, Coldwater	Sea Breams	Y		22												
Gurnards	Red, Grey & Tub Gurnard	Species of the family <i>Triglidae</i> & <i>Peristedion cataphractum</i>	Round, Coldwater	Any Cod-like species			22					Q	Q	Q	Q	Q			
Haddock		<i>Melanogrammus aeglefinus</i>	Round, Coldwater, Cod-like	Any Cod-like species	Y		19		Q	Q	Q			Q	Q	Q			
Hake	Cape Hake, Capensis Hake	All species of <i>Merluccius</i>	Round, Coldwater, Cod-like	Any Cod-like species			20												
Halibut		All species of <i>Hippoglossus</i>	Flat, Coldwater	Turbot, Brill	Y		15												
Herring		<i>Clupea harengus</i>	Round, Coldwater, Oil-rich	Mackerel			21												
Hoki		<i>Macruronus novaezelandiae</i>	Round, Coldwater, Cod-like	Any Cod-like species			20	Fresh is difficult but frozen fillets are available											
Icefish	Toothfish (Antarctic Sea Bass, Chilean Sea Bass)	<i>Dissostichus mawsoni</i> , <i>Dissostichus eleginoides</i>	Round, Coldwater	Salmon, Sea Bass, Cod			22												
Jack	Trevally, Horse Mackerel, Scad, Pompano, Yellowtail Kingfish	All species of <i>Caranx</i> , <i>Hemicaranx</i> , <i>Seriola</i> , <i>Trachurus</i> & <i>Decapterus</i>	Round, Warmwater, Game	Kingfish, Bonito	Y		31												
Jobfish	Job Jaune, Goldband Jobfish, (King Snapper)	All species of <i>Aphareus</i> , <i>Aprion</i> & <i>Pristipomoides</i>	Round, Warmwater	Snappers			28												
John Dory	St Peter's Fish	<i>Zeus faber</i>	Round, Coldwater, Unique				23												
King Prawns	Most common varieties are Black Tiger, Indian White & Banana King Prawns	All species of the families <i>Penaeidae</i> & <i>Palaemonidae</i>	Crustacean	Langoustines, Crayfish	Y		34	Vast selection of frozen available all year											
Kingfish	King Mackerel	<i>Scomberomorus cavalla</i>	Round, Warmwater, Game, Oil-rich	Bonito, Mackerel, Jack	Y		31												
Kingklip		<i>Genypterus capensis</i>	Round, Coldwater	Hake, Ling			-												
Langoustines	Scampi, Dublin Bay Prawns, Norway Lobsters	<i>Nephrops norvegicus</i>	Crustacean	King Prawns			34	Q	Q								Q	Q	Q
Lemon Sole		<i>Microstomus kitt</i>	Flat, Coldwater	Dover Sole, Plaice, Witch			16						Q	Q	Q	Q			
Ling		All species of <i>Molva</i>	Round, Coldwater, Cod-like	Any Cod-like species			20												
Lobster		All species of <i>Homarus</i>	Crustacean	Slipper Lobsters, Crawfish			33												
Slipper Lobster	Moreton Bay Bugs	All species of the family <i>Scyllaridae</i>	Crustacean	Lobster			34												
Mackerel		<i>Scombrus scombrus</i>	Round, Coldwater, Oil-rich	Herrings			21												
Mahi Mahi	Dolphin Fish	<i>Coryphaena hippurus</i>	Round, Warmwater, Game	Kingfish			32												
Marlin	Most common varieties are White, Black & Blue Marlin	All species of <i>Makaira</i>	Round, Warmwater, Game	Sailfish			32												
Meagre	Drum, Croaker	<i>Argyrosomus regius</i>	Round, Warmwater	Sea Bass, Grey Mullet	Y		26												
Megrim	(Sail-Fluke, Whiff)	All species of <i>Lepidorhombus</i>	Flat, Coldwater	Witch, Plaice, Lemon Sole			17												
Monkfish	Anglerfish	<i>Lophius</i> species	Unique, Coldwater	Langoustines (for flavour)			23	Q	Q	Q	Q						Q	Q	Q
Moonfish	Opah	All species of <i>Lampris</i>	Round, Warmwater, Unique	Pomfret			29												
Mussels		All species of the family <i>Mytilidae</i>	Molluscs (bivalve)	Clams	Y		35	Q	Q	Q							Q	Q	Q

continued →

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Octopus		All species of <i>Octopus</i>	Cephalopods	Squid, Cuttlefish			37												
Oysters (Native)		All species of <i>Ostrea</i>	Molluscs (bivalve)	Pacific Oysters	Y		36								Closed season				
Oysters (Pacific)	Pacific / Rock Oysters, Portuguese Oysters	All species of <i>Crassostrea</i>	Molluscs (bivalve)	Native Oysters	Y		36												
Perch		<i>Perca fluviatilis</i>	Round, Freshwater	Carp, Zander, Pike			40												
Pike		<i>Esox lucius</i>	Round, Freshwater	Zander, Perch	Y		40												
Plaice		<i>Pleuronectes platessa</i>	Flat, Coldwater	Lemon Sole, Flounder, Dab, Megrim			17						Q	Q	Q				
Pollack	Pollock	<i>Pollachius pollachius</i>	Round, Coldwater, Cod-like	Any Cod-like species			20												
Pomfret	Butterfish	All species of <i>Brama</i> , <i>Stromateus</i> & <i>Pampus</i>	Round, Warmwater, Unique	Moonfish			29												
Prawn - Coldwater		<i>Pandalus borealis</i>	Crustacea, Coldwater				34												
Prawn - Warmwater	Giant Tiger Prawn, Jumbo Tiger Shrimp or Brown Tiger Prawn	<i>Pandalus monodon</i>	Crustacea, Coldwater				34												
Red Mullet		All species of <i>Mullus</i>	Round, Warmwater	Goatfish, Snappers			29												
Red Snapper		All species of <i>Lutjanus</i>	Round, Warmwater	Other Snappers			28												
Sablefish	(Black Cod)	<i>Anoplopoma fimbria</i>	Round, Coldwater	Cod is closest			24	Only sold frozen											
Sailfish		All species of <i>Istiophorus</i>	Round, Warmwater, Game	Marlin			32												
Salmon (farmed)	Atlantic Salmon	<i>Salmo salar</i>	Round, Cold/Freshwater, Oil-rich	Sea Trout, Pacific Salmon	Y		38												
Salmon (wild)	Atlantic Salmon	<i>Salmo salar</i>	Round, Cold/Freshwater, Oil-rich	Sea Trout, Pacific Salmon			38												
Salmon, Pacific	Cherry Salmon	<i>Oncorhynchus masou masou</i>	Round, Cold/Freshwater, Oil-rich	Sea Trout, Pacific Salmon			38												
Salmon, Keta	Chum Salmon	<i>Oncorhynchus keta</i>	Round, Cold/Freshwater, Oil-rich	Sea Trout, Pacific Salmon			38												
Salmon, Silver	Coho or Medium Red Salmon	<i>Oncorhynchus kisutch</i>	Round, Cold/Freshwater, Oil-rich	Sea Trout, Pacific Salmon			38												
Salmon, Pink		<i>Oncorhynchus gorbuscha</i>	Round, Cold/Freshwater, Oil-rich	Sea Trout, Pacific Salmon			38												
Salmon, Red	Sockeye Salmon	<i>Oncorhynchus nerka</i>	Round, Cold/Freshwater, Oil-rich	Sea Trout, Pacific Salmon			38												
Salmon, King	Spring, Chinook or Pacific Salmon	<i>Oncorhynchus tshawytscha</i>	Round, Cold/Freshwater, Oil-rich	Sea Trout, Pacific Salmon			38												
Sardines	Pilchards - which are adult Sardines	<i>Sardina pilchardus</i>	Round, Coldwater, Oil-rich, Small	Herrings			21	Q	Q	Q	Q						Q	Q	Q
Scabbard Fish	Sabre Fish, Silver Sabre, Black Sabre (Ribbon Fish, Espada, Cutlass Fish)	<i>Lepidopus caudatus</i> (silver), <i>Aphanopus carbo</i> (black)	Round, Coldwater, Unique				24												
Scallops	King / Queen / Atlantic / Common	All species of family <i>Pectinidae</i>	Molluscs (bivalve)				36									Q	Q		

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Sea Bass (farmed)		<i>Dicentrarchus labrax</i>	Round, Warmwater	Gilthead Bream	Y		26	Q	Q					Q	Q	Q	Q	Q	Q
Sea Bass (wild)		<i>Dicentrarchus labrax</i>	Round, Warmwater	Barramundi			26												
Striped American Sea Bass	Rockfish	<i>Morone saxatilis</i>	Round, Freshwater	Sea Bass, Gilthead Bream	Y		40												
Sea Bream	Gilthead Bream, Royal Bream, Black Bream, Black Banded Bream, Red Sea Bream, Ray's Bream, Porgy	All species of family Sparidae (ex. Boops boops)	Round, Warmwater	Snappers, Emperor, Sea Bass	Y		27												
Sea Trout	Salmon Trout	<i>Salmo trutta</i>	Round, Cold/Freshwater, Oil-rich	Brown Trout, Salmon	Y		39												
Snappers	Red, Emperor, Ruby, Pink, King, Moses, Crimson, Flag, Mangrove, Silk, Yellowtail & Five Line Snapper	All species of family Lutjanidae	Round, Warmwater	Emperors, Sea Breams			28												
Sprats		<i>Sprattus sprattus</i>	Round, Coldwater, Oil-rich, Small	Anchovies, Whitebait, Sardines			21	Q	Q									Q	Q
Squid	(Calamari)	All species of <i>Loligo</i> , <i>Illex</i> , <i>Ommastrephes</i>	Cephalopods	Cuttlefish, Octopus			37	Q	Q	Q							Q	Q	Q
Tilapia - Orange, Red & Black	Orange & Black Tilapia	All species of <i>Tilapia</i> & <i>Oreochromis</i>	Round, Freshwater	Sea Breams	Y		40												
Trevally	Jack, Horse Mackerel, Scad, Pompano, Yellowtail Kingfish	All species of <i>Caranx</i> , <i>Hemicaranx</i> , <i>Seriola</i> , <i>Trachurus</i> & <i>Decapterus</i>	Round, Warmwater, Game	Kingfish, Bonito	Y		31												
Trout - Brown		<i>Salmo trutta</i>	Round, Freshwater, Oil-rich	Sea Trout, Rainbow Trout, Salmon	Y		39												
Trout - Rainbow		<i>Oncorhynchus mykiss</i>	Round, Freshwater, Oil-rich	Sea Trout, Brown Trout, Salmon	Y		39												
Tuna	Yellowfin, Skipjack	<i>Thunnus albacares</i> , <i>Euthynnus pelamix</i>	Round, Warmwater, Game, Oil-rich	Marlin, Bonito			30												
Turbot		<i>Psetta maxima</i>	Flat, Coldwater	Brill	Y		15												
Wahoo		<i>Acanthocybium solandri</i>	Round, Warmwater, Game, Oil-rich	Kingfish, Bonito			31												
Whelks		All species of <i>Buccinum</i>	Molluscs (univalve)	Winkles			36					Q	Q	Q	Q	Q			
Whitebait		<i>Sprattus sprattus</i> / <i>Clupea harengus</i>	Round, Coldwater, Oil-rich, Small	Sprats			21	Q	Q									Q	Q
Whiting		<i>Merlangius merlangus</i>	Round, Coldwater, Cod-like	Any Cod-like species			20	Q	Q					Q	Q	Q	Q	Q	Q
Winkles		All species of <i>Littorina</i>	Molluscs (univalve)	Whelks			36					Q	Q	Q	Q				
Witch	Torbay Sole	<i>Glyptocephalus cynoglossus</i>	Flat, Coldwater	Lemon Sole, Plaice, Megrim			17												
Wrasse	Ballan Wrasse, Cuckoo Wrasse	All species of family Labridae	Round, Warmwater	Snappers			29												
Zander	Pike-perch	<i>Stizostedion lucioperca</i>	Round, Freshwater	Perch, Pike	Y		40												



# Sourcing

With 21,000 species of fish and shellfish in the world and around 100 delicious varieties available in the UK, there really is an ocean of choice.

This diversity means that more and more people are becoming adventurous in their tastes. You can respond to this demand by providing your customers with some of the lesser known species such as ling and pollack, as well as traditional species like cod and haddock.

Many of the species available in the UK come from a wide variety of sources, with 70% being imported from all over the world.

## Imports

The UK is becoming increasingly reliant on imports.

In 2007 the UK imported 672,000 tonnes of seafood worth £1.76 billion. (Note: this figure does not include freshwater fish, fishmeal or fish oils.)

Large processing firms tend to import the majority of their supplies. Imports have traditionally been dominated by shellfish but more recently whitefish have also become very important. Sources of import include:

- **Shellfish** – India, Bangladesh, Indonesia, Denmark, Canada
- **Whitefish** – Faroe, Iceland, Russia, Norway

## The UK fishing industry

In 2007, UK fishing vessels landed around 366,000 tonnes of seafood, worth over £368 million. At that time, the industry employed 12,729 fishermen, working on 6,763 vessels.

Source: For the latest statistics on the UK fishing industry visit the Marine and Fisheries Agency website.

All UK fishermen have to operate under strict management regimes. Many of the stocks around the country's coastline are currently very healthy; for example, stocks of herring and shellfish such as langoustine. However, many of the most abundant species are exported and there is scope to increase UK consumption of them.

In recent years, new alliances have been built between government, fishermen, statutory bodies, conservationists and scientists to work towards a sustainable future for the seas around the UK. As these new partnerships develop, there is scope for buyers to change their specifications, building in commitments to better conservation practices by fishermen. The Head of Environmental Responsibility at Seafish is helping the seafood industry build on this.

For details of the latest Seafish projects in this area visit <http://sin.seafish.org>



## Aquaculture

A wide range of fish and shellfish are produced by the aquaculture industry worldwide. Familiar examples include salmon, trout, warmwater prawns, sea bass, sea bream, turbot, tilapia, oysters, scallops and mussels. Other species being farmed in increasing quantities include cod and halibut. Both of these species are starting to be farmed on a commercial scale here in the UK.

The different aquaculture terms are:

- **Farmed** – eggs bred in captivity and grown through to harvest.
- **Sea reared** – young stocks are caught in the wild and then grown on to harvest, eg mussels.
- **Sea ranching** – Juveniles are bred in captivity and then released into the wild. A small percentage (2-5%) are subsequently caught when they mature, eg lobsters.

Fish and shellfish farms in the UK and Europe have to be registered and the fish and shellfish are inspected for health, hygiene and welfare regularly. Individual farms and their associations are working to raise standards and maintain a healthy environment.

Current initiatives include:

- Developing and promoting codes of practice to ensure cultivation sites and stocks are well managed.
- Addressing issues relating to the supply of fishmeal and fishoil in aquaculture feeds. Sourcing feeds from sustainably managed and accredited fisheries is becoming a priority.
- Investigating better use of feed on site through the development of improved feeding systems.

## Processing

In 2008 there were 479 processing factories in the UK, employing 14,660 full time equivalent employees.

A suppliers database listing UK merchants, wholesalers and processors is available at [www.seafish.org](http://www.seafish.org). It contains details of the lines they sell and the various product-forms they handle.

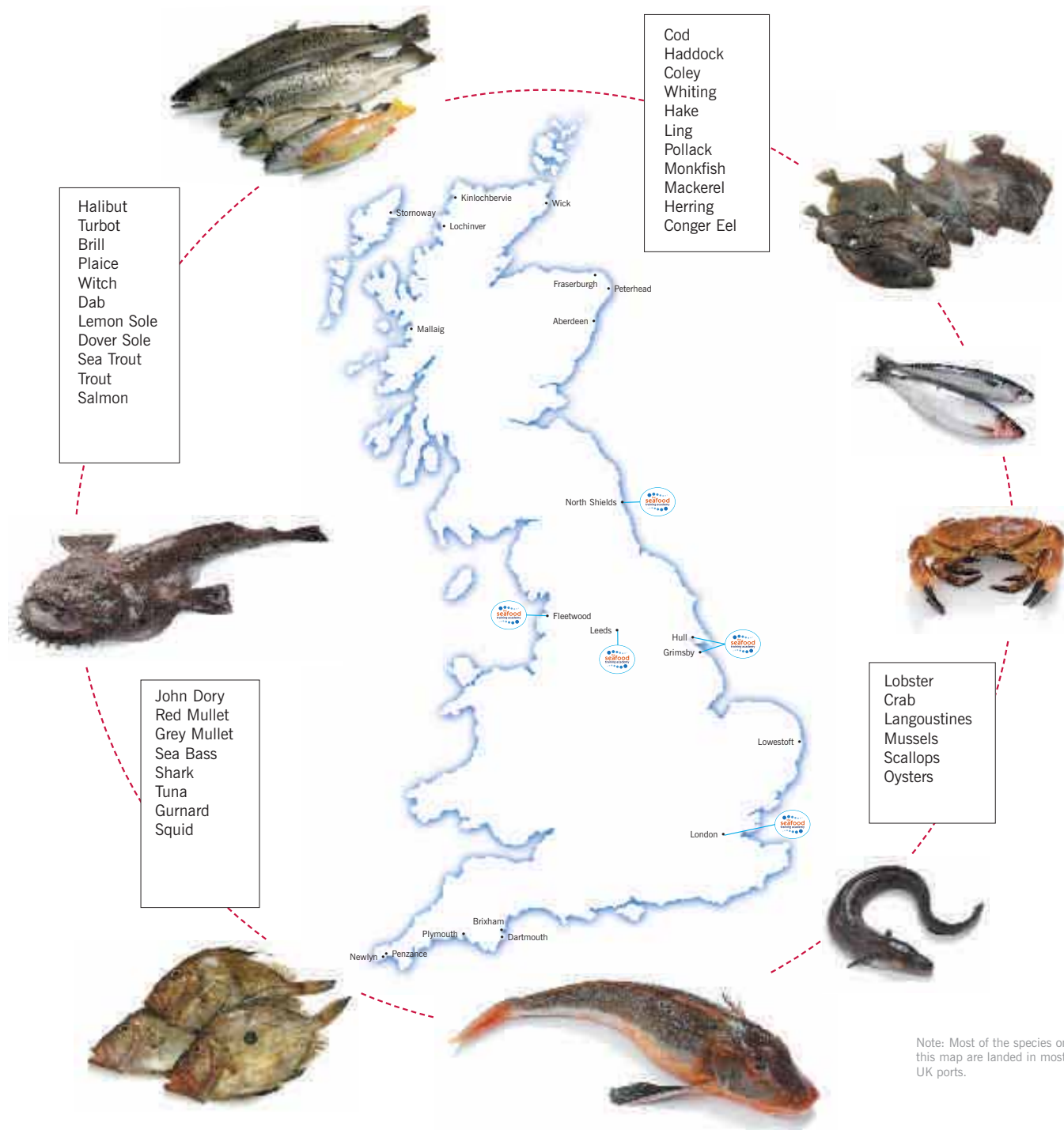
Seafood processing is classed as either:

- **Primary** (cutting, filleting, peeling, washing, chilling, packaging, heading and gutting) or
- **Secondary** (brining, smoking, cooking, freezing, canning, deboning, breading, battering, vacuum & controlled packaging and the production of ready meals).

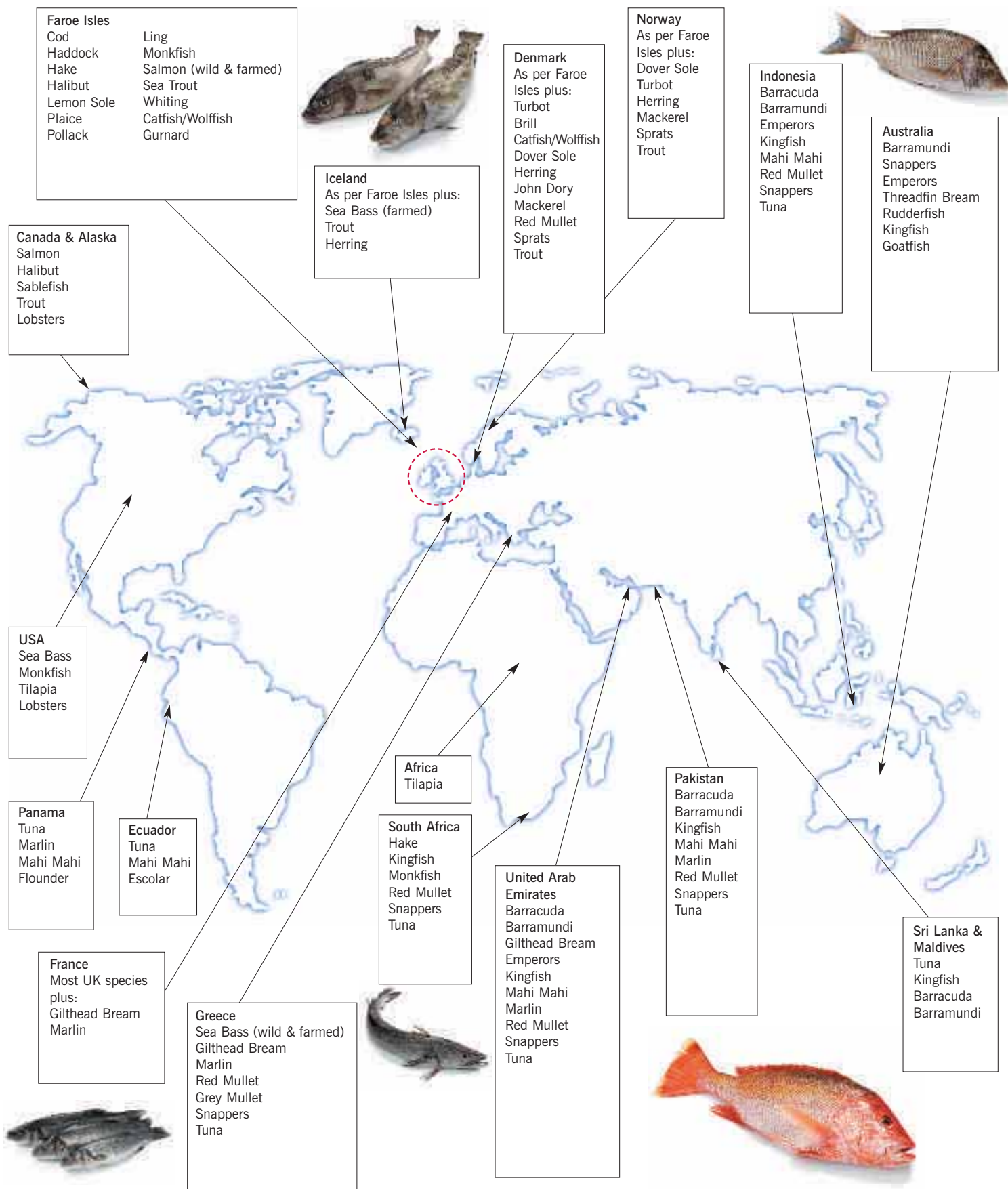
Seafish operates Processor and Wholesaler Quality Award schemes which recognise high standards in seafood production and distribution. For more information see [www.seafish.org](http://www.seafish.org).

# Enjoy the best of the world's catch

These maps provide an indication of the most common source for various species.



Location of Seafood Training Academy Partners. See inside back cover for full list.



# Seafood: the best natural source of Omega-3



It is widely recognised that oil-rich fish, high in long-chain, Omega-3, polyunsaturated fatty acids, is good for you. Data collated by Seafish, has revealed that a greater range of fish and shellfish contain high concentrations of Omega-3 oils than previously realised.

The collated data comes from six studies into the Omega-3 content of seafood by major international organizations such as the United States Department of Agriculture and the German Nutritional Advice Network.

While the research revealed that herring, mackerel, sardines and salmon remain at the top of the list as being richest in Omega-3, species such as brown crab, oysters, Atlantic pollack, hake and brown shrimps emerged as useful sources.

Seafood is now widely recognised as the best, natural source of Omega-3 oils, the long-chain fatty acids which are beneficial for heart health. Further studies have revealed it is also necessary for brain development, joint function and healthy skin – in fact, for every cell in our bodies.

The results reveal that species which have not traditionally been thought of as oil-rich have emerged as valuable sources, and this is particularly good news for those who are not keen on stronger tasting fish. They are also significant because they show that consumers concerned about the sustainability or provenance of a particular species have far more options than previously thought if they want to protect their hearts from damage and improve their overall health.

The FSA recommended intake of Omega-3 is 3,000 milligrams weekly (about 450mg per day). From the table, you can see how easy this is to attain. Since most people already get around a third of this amount from other sources, just adding one portion of herring or mackerel hits the target easily. Combining some of the other sources, for example one portion of brown crab, together with a portion of mussels, comes to roughly the same figure.

In addition to the benefits of Omega-3, seafood is an excellent source of protein and provides a wide range of vitamins and minerals which have important functions in the body. Because of all these benefits, the Food Standards Agency recommends that we should all be eating at least two portions a week (one portion should be omega-rich. A portion is equivalent to approximately 140g and in addition, the FSA go on to make further recommendations relating specifically to oil-rich fish:

Two portions of oil-rich fish per week	Four portions of oil-rich fish per week
Girls and women who might have a baby one day	Other women
Women who are pregnant or breastfeeding	Men and boys



Can you tell me more about..?

# Species information

The following 28 pages contain details on 100 different species! There are also Instant Guides to the most popular 22 species, providing all the essential information at a glance.



**Flatfish**  
pages 14 to 17



**Round-fish / Coldwater**  
pages 18 to 24



**Round-fish / Warmwater**  
pages 25 to 29



**Game Fish**  
pages 30 to 32



**Shellfish**  
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**Cephalopods**  
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**Salmon, Trout and Freshwater**  
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## Key to symbols used

Good source of omega-3

For more information on omega-3 see page 12.



1. Dover Sole
2. Dab
3. Plaice
4. Lemon Sole
5. Halibut (Chick)
6. Megril
7. Brill
8. Turbot
9. Filleting Halibut

## Flatfish

We are truly blessed in the UK to be surrounded by a superb array of flatfish. All flatfish are born round, then as they grow, the eyes move to either the left or right side of the fish so they can see all around when lying on the sea bed. Left-eye fish are called sinistral (Turbot, Brill and Megril) and right-eye fish are called dextral (all others). They all have dark skin on the 'eye side' and white on the 'blind side' except Greenland Halibut which is dark on both sides.

Fillets from flatfish do not possess any pin bones. The larger species (Halibut, Turbot and Brill) can also provide excellent boneless suprêmes from fish over 3kg.

## Halibut

The largest of the flatfish. Halibut have been known to grow as large as 300kg and 4m long in deeper waters. This is a highly esteemed and very tasty fish, with creamy-white, firm meaty flesh. It has a compressed oval body with a large mouth. The dark, eye side is a greenish-dark brown and the blind side is pure white. Smaller fish (1 to 3kg) are known as 'baby' or 'chick' halibut, and tend to be found in shallower waters. The better quality fish are usually caught by line, so the catch is limited, making them more expensive. The larger fish range in size from 3kg to 70kg. As well as being found in the Pacific, North Atlantic and the North Sea, Halibut is now also being successfully farmed, ensuring this exquisite, nutritious species is available year-round.

Not to be confused with Mock, Black or Greenland Halibut, all names for an inferior species (*Reinhardtius hippoglossoides*), it is easily identified, dark brown on both sides and with a slightly gelatinous texture.

The best way to cook Halibut is to poach it either in a good fish stock or white wine, with cooking liquors then used as a base for some superb sauces (delicate flavours work best). Suprêmes are also good pan-fried – but be careful not to over-cook and dry them out.

Halibut (Chick)

Instant guide to...

Halibut

Flesh flavour

Mild

Medium

Strong

Sweet

Earthy

☐

☒

☐

☐

☐

Flesh texture

Soft

Medium

Firm

Meaty

Small Flakes

Large Flakes

☐

☒

☐

☐

☐

☒

Oil content

Low

Medium

High

☐

☒

☐

Sauces/flavours

Creamy

Sharp

Strong/spicy

Delicate

☒

☒

☐

☒

Price guide

Low

Medium

High

☐

☐

☒

Best portions

(details on p.43-45)

Whole

Fillet

Suprêmes

Steaks

Pavés

☐

☒

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☒

☒

Best cooking methods

Pan Fry

Griddle

Grill

Deep Fry

Bake

Poach

Steam

Boil

Microwave

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Availability

(details on p.4-7)

All year round.

Wild season runs from May to March,

farmed all year.

Alternatives

Turbot, Brill

Instant guide to...

Turbot

Flesh flavour

Mild

Medium

Strong

Sweet

Earthy

☐

☒

☐

☐

☐

Flesh texture

Soft

Medium

Firm

Meaty

Small Flakes

Large Flakes

☐

☒

☐

☐

☐

☒

Oil content

Low

Medium

High

☒

☐

☐

Sauces/flavours

Creamy

Sharp

Strong/spicy

Delicate

☒

☒

☐

☒

Price guide

Low

Medium

High

☐

☐

☒

Best portions

(details on p.43-45)

Whole

Fillet

Suprêmes

Steaks

Pavés

☒

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Best cooking methods

Pan Fry

Griddle

Grill

Deep Fry

Bake

Poach

Steam

Boil

Microwave

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Availability

(details on p.4-7)

All year round.

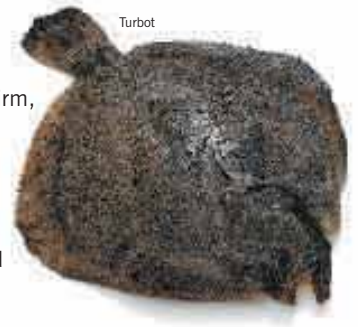
Wild season runs from April to Feb, farmed all year.

Alternatives

Brill, Halibut

## Turbot

Like Halibut, Turbot is a highly prized species and often regarded as the best of the flatfish with great flavour and firm, white flesh. It has an almost round shaped body, studded with bony tubercles on its dark side. Colour varies from light to dark brown, spotted with green or black and a white blind side. Turbot ranges in size from 400g to 10kg.



Turbot

The texture is similar to Halibut, but it has a slightly more pronounced 'fishy' taste, so requires very little to enhance the flavour. It's also a chef's dream, as it retains plenty of moisture during cooking, preventing it from drying out – ideal for functions. Turbot are now also being successfully farmed giving good availability, and are distinguished by their lighter skin.

## Brill

Brill is similar to Turbot, yet remains a very underrated fish, despite being generally less expensive. It has an almost oval body, a grey-brown dark side with light and dark freckles (but no tubercles), and ranges from 400g to 4kg. As with Turbot, the skin colour changes according to where it is caught – lighter colours are found on sandy seabeds, with darker, richer colours found on muddier beds. Admittedly, Turbot's flesh has larger flakes, but Brill has a sweeter taste, which benefits from a bit more enhancement – try a sauvignon blanc reduction sauce, garnished with a spoonful of Avruga and chopped chives.

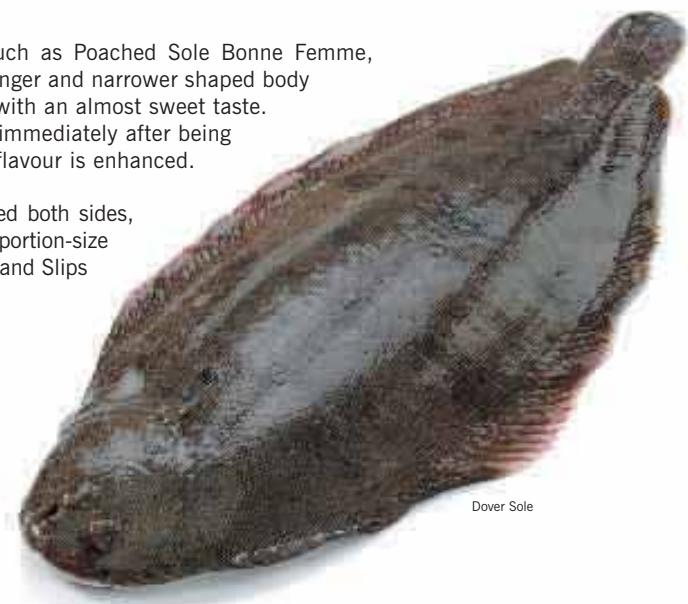
With both Turbot and Brill, the smaller fish (under 500g) are best appreciated on the bone, black-skinned and simply pan-fried with a herb butter or simple sauce, while larger fish (3kg+) yield great suprêmes, steaks and pavés which can be pan-fried, grilled, poached or baked.



Dover Sole

King of the soles. This superb fish inspired many classic dishes such as Poached Sole Bonne Femme, Sole Veronique and Sole a la Meunière. With dark brown skin and a longer and narrower shaped body than other flatfish, Dover Sole has a crisp white flesh, firm to touch, with an almost sweet taste. They range in size from 340g to 1.3kg. As it's often too firm to cook immediately after being caught, it is usually best after one or two days when the texture and flavour is enhanced.

Fish of 400-450g are perfect for serving whole a la meunière – skinned both sides, dusted in seasoned flour and pan-fried. A 680g fish will provide two portion-size fillets. Small Dover Sole are sometimes known as Tongues (up to 280g) and Slips (280-340g).



Dover Sole

Instant guide to...**Dover Sole**

**Flesh flavour**  
Mild ☐  
Medium ☒  
Strong ☐  
Sweet ☒  
Earthy ☐

**Flesh texture**  
Soft ☐  
Medium ☒  
Firm ☐  
Meaty ☐  
Small Flakes ☒  
Large Flakes ☐

**Oil content**  
Low ☒  
Medium ☐  
High ☐

**Sauces/flavours**  
Creamy ☒  
Sharp ☐  
Strong/spicy ☐  
Delicate ☒

**Price guide**  
Low ☐  
Medium ☐  
High ☒

**Best portions**  
(details on p.43-45)  
Whole ☒  
Fillets ☒  
Suprêmes ☐  
Steaks ☐  
Pavés ☐

**Best cooking methods**  
Pan Fry ☒  
Griddle ☐  
Grill ☒  
Deep Fry ☐  
Bake ☒  
Poach ☐  
Steam ☒  
Boil ☐  
Microwave ☒

**Availability** (details on p.4-7)  
All year round.  
More difficult in Jan-Feb and July-Aug.

**Alternatives**  
Lemon Sole

Lemon Sole

Lemons have an oval body; more rounded than a Dover, with a lighter, yellowy-brown dark side. Ranging in size from 230g to 1kg, Lemon Sole have a sweet delicate flesh, ideal for any sole recipes and work especially well with creamy white wine sauces. As well as being a great fish cooked on the bone, fillets are always popular, and are great for rolling around a filling (delice), then steaming or baking. While found in the Eastern Atlantic and North Sea, Lemon Sole from the South Coast are generally considered the best, and often command a higher price. A popular fish on Christmas menus.



Lemon Sole

Instant guide to...**Lemon Sole**

**Flesh flavour**  
Mild ☒  
Medium ☐  
Strong ☐  
Sweet ☒  
Earthy ☐

**Flesh texture**  
Soft ☒  
Medium ☐  
Firm ☐  
Meaty ☐  
Small Flakes ☒  
Large Flakes ☐

**Oil content**  
Low ☒  
Medium ☐  
High ☐

**Sauces/flavours**  
Creamy ☒  
Sharp ☒  
Strong/spicy ☐  
Delicate ☒

**Price guide**  
Low ☐  
Medium ☒  
High ☐

**Best portions**  
(details on p.43-45)  
Whole ☒  
Fillets ☒  
Suprêmes ☐  
Steaks ☐  
Pavés ☐

**Best cooking methods**  
Pan Fry ☒  
Griddle ☒  
Grill ☒  
Deep Fry ☒  
Bake ☒  
Poach ☒  
Steam ☒  
Boil ☐  
Microwave ☒

**Availability** (details on p.4-7)  
All year round.  
Season runs from May to March. Avoid Xmas - high demand and difficult availability forces price up.

**Alternatives**  
Plaice, Dover Sole, Megrim,





Plaice

Instant guide to...

Plaice

Flesh flavour

Mild

Medium

Strong

Sweet

Earthy

☒

☐

☐

☒

☐

Flesh texture

Soft

Medium

Firm

Meaty

Small Flakes

Large Flakes

☒

☐

☐

☐

☒

☐

Oil content

Low

Medium

High

☒

☐

☐

Sauces/flavours

Creamy

Sharp

Strong/spicy

Delicate

☒

☒

☒

☒

Price guide

Low

Medium

High

☒

☐

☐

Best portions

(details on p.43-45)

Whole

Fillets

Suprêmes

Steaks

Pavés

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## Plaice

Unlike Dover Sole, Plaice is best eaten as fresh as possible, as the flavour quickly fades. Ranging from 230g to 2kg, whole fish is easily identified by its distinctive orange spots, which also give an indication of the freshness (the brighter the spots, the fresher the Plaice). It is as pronounced a flavour as Lemon Sole, but it takes sauces and other flavours very well, and is great for battering. Cook on the bone (with the black skin removed) to get the best from the flavour, or use fillets with a sauce or filling. Best avoided when in roe (around February to April), as the flesh is thin and watery.

## Megrim

Megrim, also known as Whiff, is more loved by the Spanish than in the UK. It has an oval body similar to Lemon Sole with a sandy-brown dark side but is from the same family as Turbot and Brill.



Megrim

## Witch

Witch, also known as Torbay Sole, has a similar appearance to Dover Sole, and is from the same family as Lemon Sole and Plaice.

Both Megrim and Witch are generally fished off the southwest coast and down the Atlantic coast of Europe and range in size from 225g to 900g. They can be a good buy when at their freshest, are best cooked on the bone and require careful cooking to avoid drying out.



## Flounder & Dab

Also known as Fluke, Flounder has brownish-green skin with faint red spots on the dark side, and is a bright white on the blind side. They are a similar shape to Halibut (though that's where the similarities end!), and range in size from 350g - 900g. Dabs tend to be smaller, and are rarely caught bigger than 680g. At their best, both dab and flounder are similar in flavour and texture to Plaice, and can be a good buy.



Dab

# Round-fish / Coldwater

Cod is rightly regarded as one of the world's great coldwater fishes, but there are plenty more similar species worth investigating too, along with other great coldwater fish such as Monkfish, John Dory and some underrated species such as Gurnards, Grey Mullet and Mackerel.



- 1. Cod Fillet
- 2. Cod
- 3. Haddock
- 4. John Dory







Other members of the Cod family...

### Coley

An alternative to Cod and Haddock, also known as Saithe. A long tapered body, with a slight blue tint, coley range from 500g to 6kg but are usually only available as fillets. Coley can be a good buy, but needs to be as fresh as possible. The flesh is often a dull off-white colour but lightens during cooking and it has a fine flavour.

### Hake

Surprisingly not more popular in the UK – a large proportion of the UK catch goes to the Spanish, Portuguese and Italians who love it. Ranging from 1 to 5kg, Hake has a long, round, slender body and is mainly grey and silver in colour. Its shape makes it great for cutting into steaks or loin suprêmes. The flesh is quite soft, but firms up on cooking, has a good flavour, and is well worth trying. For a light, modern alternative to battered Cod, try deep-frying Hake fillets dipped in a light tempura batter.

### Ling

Ling has a long slender body with a bronze tint, greenish-brown marks, and a white belly. It can grow up to 1.5 metres long, but is usually only available as fillets. It is also often salted and dried. It has firm textured flesh and a good flavour, which takes strong flavours well. Also look out for Tusk, a relative of Ling with similar characteristics.

### Pollack

Closely related to Coley, and the two are often confused. Whole fish range from 500g to 3kg. Pollack is a good tasting fish, and is popular in France where much of our catch goes.

### Whiting

A smaller fish from the Cod family, with a silvery-grey body and rounded belly, and rarely found over 2kg. This is often an overlooked fish but, like Coley, Whiting fillets are a good buy when very fresh, but can be easily overcooked.

---

### Hoki

A deep-sea fish not found around the UK, but in waters around New Zealand, South Africa and off the Chilean coast at depths of up to 5,000 metres. Hard to get fresh, but frozen is available. Unlike these other 'Cod-like' species, Hoki is not a member of the Cod family. However, it yields bright white fillets, which make a good alternative to other whitefish (see also **Catfish** page 22).



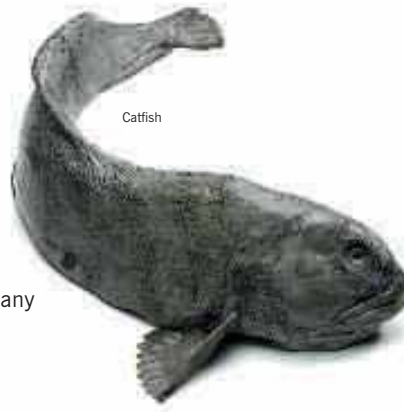
1. Whiting
2. Pollack
3. Ling
4. Hake
5. Coley





## Catfish

Also known as Wolf Fish, Catfish are found all around the North Atlantic, and have a torpedo shaped body which is usually only available already filleted – probably a good thing, as the whole fish is not particularly attractive, and the skin is tough. A good buy, the flesh is firm and can be cooked like any Cod-like species.



## Icefish

This fish (*Dissostichus eleginoides*) has an identity crisis! It's also known around the world as Patagonian Toothfish, Antarctic Sea Bass and Chilean Sea Bass, but it should only be marketed in the UK as Icefish or Toothfish. It's a rich tasting fish, like an oilier Bass or Cod, and is found in deep waters of the South Atlantic.

## Conger

Unlike the European Eel (page 39), the Conger is never found in freshwater, preferring temperate waters around the Mediterranean and North Atlantic. While not as highly regarded, Conger can be prepared and cooked in the same ways, but gets bonier towards the tail and it ranges in size typically from 2-7kg. One of the best fish in terms of maintaining its freshness.



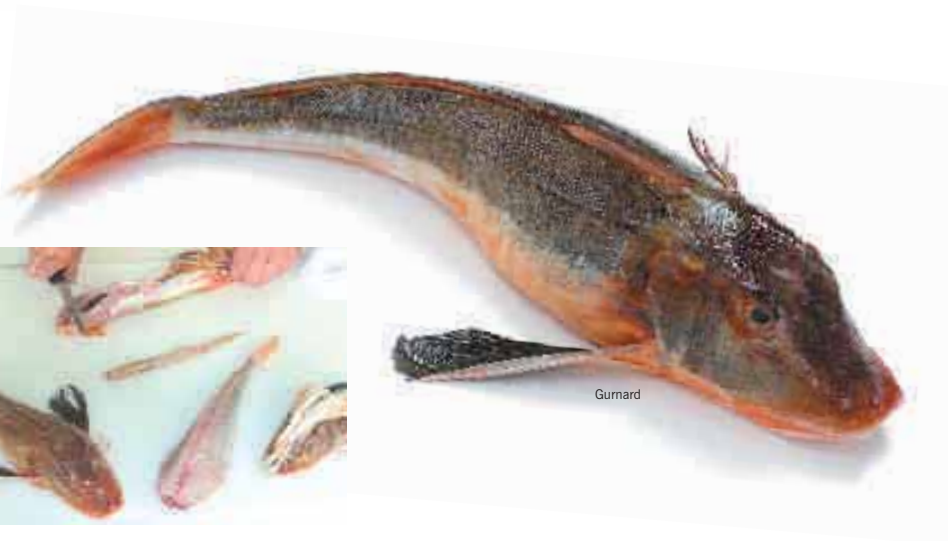
## Grey Mullet

No relation to Red Mullet, Grey Mullet range from 450g to 3kg and have a similar appearance to Sea Bass but with larger scales. Fish caught out in the open sea can be great, but further inshore they can taste muddy, as they are bottom feeders. To remove this muddiness, soak whole scaled and gutted fish for 30 minutes in 2 tbsp vinegar and 1 tbsp salt per litre. Ideal for cooking with strong flavours, and any Sea Bass recipe will work.



## Gurnards

The most common variations are Red, Grey and Yellow / Tub Gurnards, but they are very similar in shape and taste, it's just the skin colours that change. They are found around the UK and the Mediterranean from 350g to 2.5kg, and are always a good buy. Commonly used for stocks, soups and bouillabaisse, Gurnard is not a big seller despite being rated by several well-known chefs. Although it is bony, Gurnard has a good flavour, firm textured flesh, takes strong flavours and pan-fries or grills well.





John Dory

## John Dory

Often named St. Peter's fish (St. Pierre in France, Janitore in Spain), as he is alleged to be the origin of the distinctive dark 'thumbprint' (or spot) on its side as a thank you for some help with his tax! The English name John Dory arrived from the French 'jaune doré' meaning 'golden yellow' – a good description for this unusual looking fish, which varies in size from smaller 230-450g fish up to 2kg. Because of the large head (like Monkfish, this accounts for half its weight), John Dory is best filleted, but beware the low yield (around 35%) and some sharp nasty spines, which require extra care when filleting. The flesh is creamy-white, with a dense texture similar to Dover Sole, which holds up well during cooking. Ideal pan-fried or grilled, John Dory works well with Mediterranean flavours, salsas, and peppery sauces. It may be an expensive fish with a low yield – but it's worth it!

Instant guide to...

Monkfish

Flesh flavour

Mild

Medium

Strong

Sweet

Earthy

☐

☐

☒

☒

☐

Flesh texture

Soft

Medium

Firm

Meaty

Small Flakes

Large Flakes

☐

☐

☒

☒

☐

☐

Oil content

Low

Medium

High

☒

☐

☐

Sauces/flavours

Creamy

Sharp

Strong/spicy

Delicate

☒

☒

☒

☐

Price guide

Low

Medium

High

☐

☐

☒

Best portions

(details on p.43-45)

Whole

Fillets

Suprêmes

Steaks

Pavés

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Availability

(details on p.4-7)

All year round.

Best quality from Oct to May.

Best cooking methods

Pan Fry

Griddle

Grill

Deep Fry

Bake

Poach

Steam

Boil

Microwave

Fillets

Suprêmes

Steaks

Pavés

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Alternatives

None (Langoustine meat comes closest)



Monkfish

## Monkfish

An ugly fish, which has a huge head, accounting for half the fish's weight. However, there is inner beauty! Usually only the tails are sold, and range from 350g to 4kg. Once skinned, trimmed and the membrane removed, the tails yield some fantastic meat, with a firm, meaty texture and a taste similar to langoustine / scampi. In the 1970s Monkfish was only fished commercially as a cheap scampi substitute! Great for searing and then roasting, Monkfish will take on strong flavours and herbs well. Particularly good coated with chopped rosemary and olive oil, wrapped in Parma ham and baked. The liver is also highly prized, and is a delicacy in Japan where it determines the price of the fish. Similar species known as 'Stargazers' are found in warmer waters around Australia and New Zealand but are a bony fish, not cartilaginous like the European Monkfish.

Instant guide to... **John Dory**

**Flesh flavour**

Mild	<input type="checkbox"/>
Medium	<input checked="" type="checkbox"/>
Strong	<input type="checkbox"/>
Sweet	<input checked="" type="checkbox"/>
Earthy	<input type="checkbox"/>

**Flesh texture**

Soft	<input type="checkbox"/>
Medium	<input type="checkbox"/>
Firm	<input checked="" type="checkbox"/>
Meaty	<input type="checkbox"/>
Small Flakes	<input type="checkbox"/>
Large Flakes	<input type="checkbox"/>

**Oil content**

Low	<input checked="" type="checkbox"/>
Medium	<input type="checkbox"/>
High	<input type="checkbox"/>

**Sauces/flavours**

Creamy	<input checked="" type="checkbox"/>
Sharp	<input type="checkbox"/>
Strong/spicy	<input type="checkbox"/>
Delicate	<input checked="" type="checkbox"/>

**Price guide**

Low	<input type="checkbox"/>
Medium	<input type="checkbox"/>
High	<input checked="" type="checkbox"/>

**Best portions**  
(details on p.43-45)

Whole	<input type="checkbox"/>
Fillets	<input checked="" type="checkbox"/>
Suprêmes	<input type="checkbox"/>
Steaks	<input type="checkbox"/>
Pavés	<input type="checkbox"/>

**Best cooking methods**

Pan Fry	Griddle	Grill	Deep Fry	Bake	Poach	Steam	Boil	Microwave
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Availability** (details on p.4-7)  
All year round.

**Alternatives**  
None

## Sablefish

Often known (incorrectly) as Black Cod, and popular in Japanese cuisine, this premium species is commonly fished in Alaska and is usually around 5kg. With its large, moist, flakes of delicious white flesh, this is a truly superb eating fish, but Sablefish is rarely available fresh, and even the frozen is sadly out of most price ranges. Best pan-fried or baked, and featured in a classic recipe, where it is marinated in sweet miso for 2 to 3 days before being pan-fried and finished in the oven.

## Scabbard Fish

A long, thin fierce looking deep-sea fish found as far down as 1,000 metres in both cold and warm waters around the Atlantic, Mediterranean and Pacific. There are two main species of Scabbard – black and silver – and it is sometimes known as Sabre Fish (and incorrectly as Ribbon Fish or Cutlass Fish). Much is caught off the island of Madeira using long lines dyed black, where they and the Portuguese know and love it as Espada. Usually around 1 to 2kg, Scabbard has soft, delicately flavoured white meat. It is usually skinned then filleted or steaked and baked, grilled or pan-fried.



Silver Scabbard Fish





## Round-fish / Warmwater

This section focuses on warmwater and reef fish, often referred to as 'exotics'. Predominantly found in warm, tropical waters around the world, exotics are flown into the UK daily – even fish from Australia can be in the UK within 36 hours of being caught.

Some species included here, such as Sea Bass, Sea Breams and Red Mullet, are also found in more temperate waters, and can be found around the southerly coasts of the UK in spring and summer.



## Barracuda

A long, thin fish known by the French as 'Brochet De Mer' (Sea Pike) due to its appearance, but the sweet tasting, flaky flesh is something else! They range in size from 2 to 8kg, and are a large, mean looking predatory fish. However, the shape means from the 3kg+ fish you get some large, even shaped, long fillets – great for suprême portions. Barracuda can take strong flavours like Thai and Indian well. Best pan-fried, grilled or baked, but be careful not to overcook, as it dries out easily.



Barracuda  
Suprêmes

## Barramundi

Similar to a large wild Sea Bass, and also known as Giant Sea Perch, though Barramundi has darker markings, and heavier scales. It's a highly prized fish, especially in Australia, where wild fish range from 2 to 8kg commercially, but can grow up to 55kg. Barramundi is now also beginning to be farmed successfully, which will bring smaller, portion-sized fish onto the market. It has moist flesh with large flakes, and a sweet taste which, like Sea Bass, can stand on its own, as well as suiting most flavours and recipes. Cook using any method, though it's not good for poaching. Popular in Australian fusion cuisine, where East meets West.



Barramundi

## Croakers / Drums

All species from the family Sciaenidae should be marketed under any of these three names. Also known as Mulloway in Australia, these species tend to resemble Perch or Sea Bass, and some make a croaking or drum sound – hence the names. They range in size from 500g to 5kg and can be cooked as per Sea Bass and Sea Bream. There is a species called Meagre, which is also part of the Sciaenidae family. It resembles Sea Bass, and is now being farmed in France – one to look out for.

Instant guide to...

Sea Bass

Flesh flavour

Mild

Medium

Strong

Sweet

Earthy

☐

☒

☐

☒

☐

Flesh texture

Soft

Medium

Firm

Meaty

Small Flakes

Large Flakes

☐

☒

☐

☐

☐

☒

☐

Oil content

Low

Medium

High

☐

☒

☐

Sauces/flavours

Creamy

Sharp

Strong/spicy

Delicate

☒

☒

☒

☒

Price guide

Low

Medium

High

☐

☒

☐

Best portions

(details on p.43-45)

Whole

Fillets

Suprêmes

Steaks

Pavés

☒

☒

☒

☒

☐

☐

Best cooking methods

Pan Fry

Griddle

Grill

Deep Fry

Bake

Poach

Steam

Boil

Microwave

☒

☒

☒

☐

☒

☐

☒

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☐

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Availability

(details on p.4-7)

All year round.

Farmed all year, wild season runs from Aug to March (high price).

Alternatives

Gilthead Bream, Barramundi

## Sea Bass

In the wild they are found from the Mediterranean to Norway in spring and summer, grow up to 7kg, and are a prize catch, especially when line-caught. Now, thanks to farming in the Mediterranean, this highly rated fish is not only considerably more affordable, but available in plentiful supply all year round. The only difference is that farmed Bass have a slightly higher fat content. Fish from 300g-600g are ideal for simply gutting, scaling, stuffing with herbs and baking or grilling. Skin-on fillets (two per person from a 400-600g fish, or one from a 800g+ fish) are great for grilling or pan-frying. Large wild fish over 3kg also yield good suprêmes. Sea Bass has a delightful flavour which stands on its own, but also works with stronger flavours, and is particularly popular in Thai cuisine.

There is also a variation of the European Sea Bass called Striped American Bass, which is a farmed freshwater fish, but without the typical earthy freshwater taste.



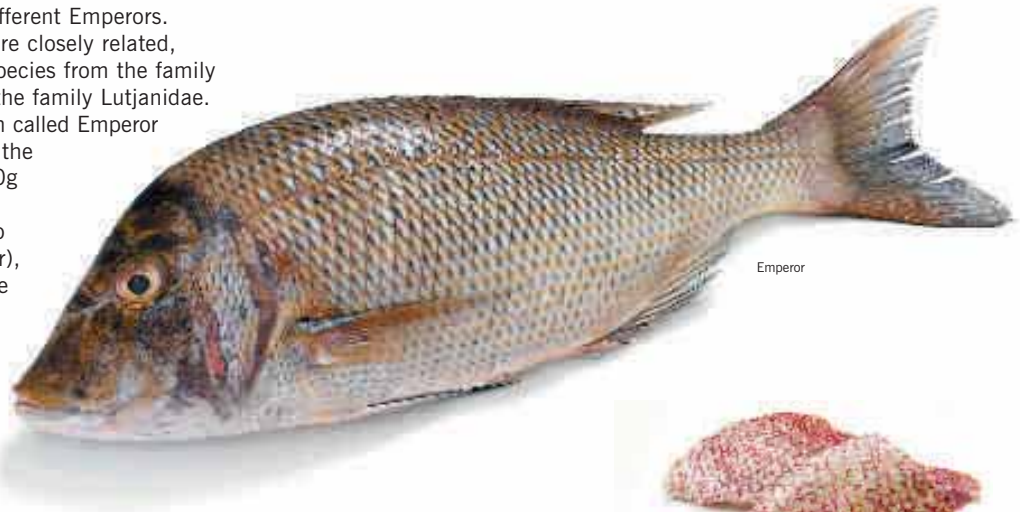
1. Sea Bass (farmed)
2. Striped American Bass
3. Sea Bass (wild)





Emperors

Like Sea Breams, there are many different Emperors. They look a lot like Snappers, and are closely related, the difference being Emperors are species from the family Lethrinidae and Snappers are from the family Lutjanidae. Just to further confuse, there is a fish called Emperor Snapper although it is a member of the Lutjanidae family. Ranging from 300g to 1kg, varieties of Emperor include Longnose, Snubnose, Spangled (also known as Capitaine or Blue Emperor), and Yellowtail. When it comes to the flesh and cooking, while Emperor doesn't have quite as strong a flavour as Snappers, it can be cooked in the same way.



Emperor

Snappers

There are a great many varieties of Snapper, including Five Line, Yellowtail, Silk, Crimson, Flag, Moses, Mangrove Jack, Emperor and Goldband, but the undisputed heavyweight champion is the Red Snapper (*Lutjanus sanguine*). All Snappers are available in sizes from 500g to 1kg, which provide portion size whole fish, and fillets, but Red Snapper can grow up to 11kg – providing fantastic suprêmes from fish over 3kg. Be aware of Malabar Snapper – very similar to Red Snapper, but requires careful cooking to avoid drying out. The flesh is similar in most Snappers – pale pink, flaky, with a distinctive sweet taste – and is usually served with its attractive skin on, which can be eaten – but don't forget to de-scale. Snappers can be grilled, pan-fried, baked, roasted, barbecued (whole fish only), and will take as much flavour as you can throw at it. Loads of chilli, garlic, lime, coriander, it even works with curry flavours.



Red Snapper



Red Snapper Fillets

Instant guide to...

Red Snapper

<b>Flesh flavour</b> Mild <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Strong <input checked="" type="checkbox"/> Sweet <input checked="" type="checkbox"/> Earthy <input type="checkbox"/>	<b>Flesh texture</b> Soft <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Firm <input checked="" type="checkbox"/> Meaty <input checked="" type="checkbox"/> Small Flakes <input type="checkbox"/> Large Flakes <input type="checkbox"/>	<b>Oil content</b> Low <input checked="" type="checkbox"/> Medium <input checked="" type="checkbox"/> High <input type="checkbox"/>	<b>Sauces/flavours</b> Creamy <input type="checkbox"/> Sharp <input checked="" type="checkbox"/> Strong/spicy <input checked="" type="checkbox"/> Delicate <input type="checkbox"/>						
<b>Price guide</b> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High <input type="checkbox"/>	<b>Best cooking methods</b>								
<b>Availability</b> (details on p.4-7) All year round.	<b>Best portions</b> (details on p.43-45)								
	Pan Fry	Griddle	Grill	Deep Fry	Bake	Poach	Steam	Boil	Microwave
	Whole	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fillets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Suprêmes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Steaks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Pavés	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>Alternatives</b> Other Snappers, Emperors								

Jobfish

Jobfish are all species of *Aphareus*, *Aprion* and *Pristipomoides*. Varieties include Goldband Jobfish and Job Jaune. They are generally thinner than a Snapper, but the flesh and taste is similar, and can be cooked in the same way. They range from 500g to 1.5kg.





# Game fish

These are some of the world's great species – large and powerful, and fantastic to observe in the wild. Imported into the UK daily from warmer waters around the world, these species rarely swim near UK shores. For the chef they provide large loins of boneless meat, which can be cut into skinless and boneless portions. Increasingly popular on menus, where consumers like the meatiness and the lack of any bones.



## Tuna


Every menu should have fresh Tuna! With its firm, rich red meat, you could almost describe this as the 'cow of the sea' and like steak, is best seared on the outside, rare in the centre. While available year round, Tuna can be harder to source in the summer, when the fish follow the monsoon season around the Pacific. It can be flash grilled, griddled or pan-fried but avoid baking as it will dry out. Tuna has a great flavour which stands on its own or try any Mediterranean flavours, spices, chillies, Oriental flavours – just avoid creamy sauces as it's an oil-rich fish. Tuna should be kept below 4°C up until cooking to avoid histamines developing.

The most common grades of Tuna are listed here in order of quality, starting with the best:

- **Yellowfin** (*Thunnus albacares*) – A browner, less rich colour, and very tasty. The most commonly available in the UK.
- **Skipjack** (*Euthynnus pelamis*) – Rarely sold fresh, used for canning.



Tuna Loin

Instant guide to... **Tuna** 

<b>Flesh flavour</b> Mild <input type="checkbox"/> Medium <input type="checkbox"/> Strong <input checked="" type="checkbox"/> Sweet <input type="checkbox"/> Earthy <input checked="" type="checkbox"/>	<b>Flesh texture</b> Soft <input type="checkbox"/> Medium <input type="checkbox"/> Firm <input checked="" type="checkbox"/> Meaty <input checked="" type="checkbox"/> Small Flakes <input type="checkbox"/> Large Flakes <input type="checkbox"/>	<b>Oil content</b> Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input checked="" type="checkbox"/>	<b>Sauces/flavours</b> Creamy <input type="checkbox"/> Sharp <input checked="" type="checkbox"/> Strong/spicy <input checked="" type="checkbox"/> Delicate <input type="checkbox"/>																																																												
<b>Price guide</b> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High <input type="checkbox"/>	<b>Best cooking methods</b> <table border="1"> <thead> <tr> <th></th> <th>Pan Fry</th> <th>Griddle</th> <th>Grill</th> <th>Deep Fry</th> <th>Bake</th> <th>Poach</th> <th>Steam</th> <th>Boil</th> <th>Microwave</th> </tr> </thead> <tbody> <tr> <td>Whole</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Fillet</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Suprêmes</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Steaks</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Pavés</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table>				Pan Fry	Griddle	Grill	Deep Fry	Bake	Poach	Steam	Boil	Microwave	Whole	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fillet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Suprêmes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Steaks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pavés	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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<b>Alternatives</b> Marlin																																																															



## Bonito

Looks and tastes about halfway between Mackerel and Tuna. Bonito ranges in size from 1 to 5kg has quite a strong taste, but the texture is coarser than Tuna. Dried Bonito flakes are used to make Dashi – the Japanese cooking stock.



## Wahoo

What a great name! Another member of the Mackerel family, and probably closest to Kingfish, but it has a taste and texture similar to chicken. Not often available fresh but, as with Mahi Mahi, a great fish to look out for.



Wahoo



## Kingfish

Also known as King Mackerel, a true Kingfish is the species *Scomberomorus cavalla*. Various other fish such as King Carangue, Yellowtail Kingfish and Pompano are sometimes mistaken for Kingfish but, although related, are a Jack or Trevally. Once identified though, Kingfish is a great fish! It has rich, oily, firm flesh, and like Mackerel, works better with sharp flavours.



Kingfish

Other game fish...



## Trevallies / Jacks

The commercial names Trevally or Jack cover a wide range of species with various local names, including Horse Mackerel, Crevalle Jack, Scad, Pompano and – confusingly – Yellowtail Kingfish! It's hardly surprisingly they are often confused with Kingfish. The Australian Yellowtail Kingfish (*Seriola lalandi*) is now being successfully farmed, giving a consistent supply of 4 to 8kg fish, though legally it should be marketed in the UK as either Jack or Trevally. Citrus marinades help retain the moisture during cooking, and they go very well with Thai and Cajun flavours.



## Escolar

From the family of Snake Mackerels, Escolar are long and slender, with dark brown-grey skin and can grow up to 130cm. While not commonly available fresh, they freeze very well, partly due to their high oil content. The flavour is quite rich and oily, so best served with accompanying flavours such as lime and coriander, but nothing creamy. Looks great when griddled or barbecued as the waxy-oils produce fantastic 'grill marks'.

### Escolar – food safety update

Escolar can contain high levels of a compound similar to castor oil which can have a similar effect on your digestive system. To reduce the risk of these problems simply follow these steps.

- Keep it fresh, chilled and eat within two days. As it is an oil-rich fish it can spoil faster than typical whitefish. Defrosted frozen fish should be consumed the same day.
- Portion sizes should be smaller than for other fish, recommended portion size is less than 160g.

In particular *Lepidocybium flavobrunneum* and the closely related species of Oil Fish *Ruvettus pretiosus* may only be placed on the market wrapped or in packaging and must be appropriately labeled to provide information on preparation and cooking methods.

## Marlin

A very large fish, and can grow as large as 300kg, though at this size the meat isn't as good quality. Loins up to 3kg are ideal. There are different varieties of Marlin – Black, Blue and White, though they are all fairly similar.

## Sailfish

A very similar fish to Marlin, but has a 'sail' on its back which folds out when swimming at speed – up to 60 miles per hour! Similar to Marlin in taste and texture, but is not as readily available.

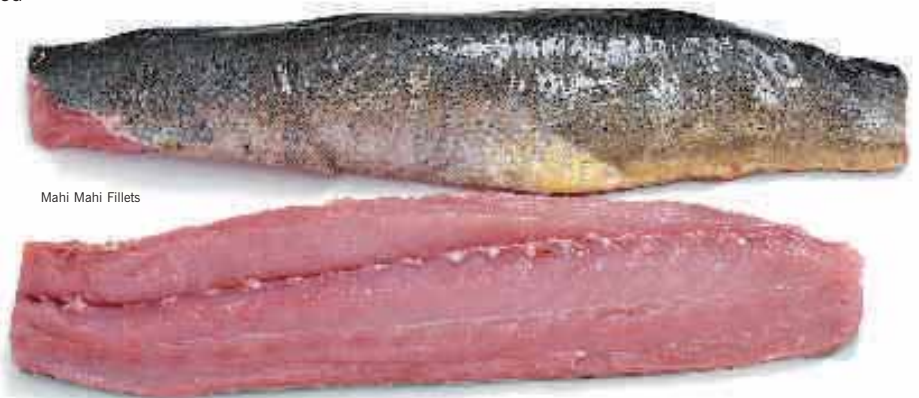


Marlin Suprême

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## Mahi Mahi

Also called Dorado or Dolphin Fish in parts of the world (though is no relation to Dolphin). Thankfully, the Hawaiian name Mahi Mahi (meaning 'strong strong') is its commercial name in the UK. Mainly found around the Seychelles, the Caribbean and the South Pacific/South American coast, this is a fantastic fish in looks, speed (50mph) and most importantly, in taste. As a comparison, it is closest in taste to Jacks / Trevallies and Kingfish, but Mahi Mahi are quite a unique species, with a more flaky texture and a sweeter flavour. The flavour stands on its own, or use fruity or spicy flavours and salsas with it - this fish loves chillies! Not always easy to source fresh, but frozen is always available and it freezes well.



Mahi Mahi Fillets



# Shellfish

## Crustaceans and Molluscs



Live Lobster

## Crustaceans

### Lobsters

You can't beat the wow factor when serving a whole cooked lobster to the customer's table. Native Lobsters are from coastal waters around the UK and are often considered the best, but are usually all sold locally or exported. Canadian and American Lobsters are caught off the East Coast of Canada and down as far as Maine, and provide a readily available year-round alternative.

There is much debate as to the most humane method for cooking live Lobsters. The Royal Society For The Prevention of Cruelty To Animals (RSPCA) recommend you first place them in a freezer for two hours, which renders them unconscious. Then before boiling, drive a sharp pointed knife through the cross on the head (death is instantaneous). This prevents the meat becoming tougher. You can then plunge them into heavily salted (40g per litre) boiling water and simmer for 15 minutes for 500g adding 2 minutes per additional 100g. Alternatively you can halve the Lobster and grill, or remove the claws and body meat and steam or stir-fry.



Cooked Lobsters



Crawfish

### Instant guide to... Lobsters

#### Meat flavour

Mild	<input type="checkbox"/>
Medium	<input type="checkbox"/>
Strong	<input checked="" type="checkbox"/>
Sweet	<input checked="" type="checkbox"/>
Earthy	<input type="checkbox"/>

#### Flesh texture

Soft	<input type="checkbox"/>
Medium	<input type="checkbox"/>
Firm	<input checked="" type="checkbox"/>
Meaty	<input checked="" type="checkbox"/>
Small Flakes	<input type="checkbox"/>
Large Flakes	<input type="checkbox"/>

#### Oil content

Low	<input checked="" type="checkbox"/>
Medium	<input type="checkbox"/>
High	<input type="checkbox"/>

#### Sauces/flavours

Creamy	<input checked="" type="checkbox"/>
Sharp	<input checked="" type="checkbox"/>
Strong/spicy	<input checked="" type="checkbox"/>
Delicate	<input type="checkbox"/>

#### Price guide

Low	<input type="checkbox"/>
Medium	<input type="checkbox"/>
High	<input checked="" type="checkbox"/>

#### Best cooking methods

Best portions	Pan Fry	Griddle	Grill	Deep Fry	Bake	Poach	Steam	Boil	Microwave
Whole	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Halved	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Peices	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Availability (details on p.4-7)

All year round.  
Season runs from April to Nov.

#### Alternatives

Crawfish, Crayfish

## Slipper Lobsters (Moreton Bay Bugs)

Unusual looking and bearing little resemblance to what we recognise as a Lobster, Slipper Lobsters – or Bugs as they are known in Australia – don't have claws so all the meat is in the tail. Despite their higher price per kilo when whole, when you compare the yield with a traditional Lobster, Slippers can be better value, though not as readily available and normally sold frozen.

## Crayfish

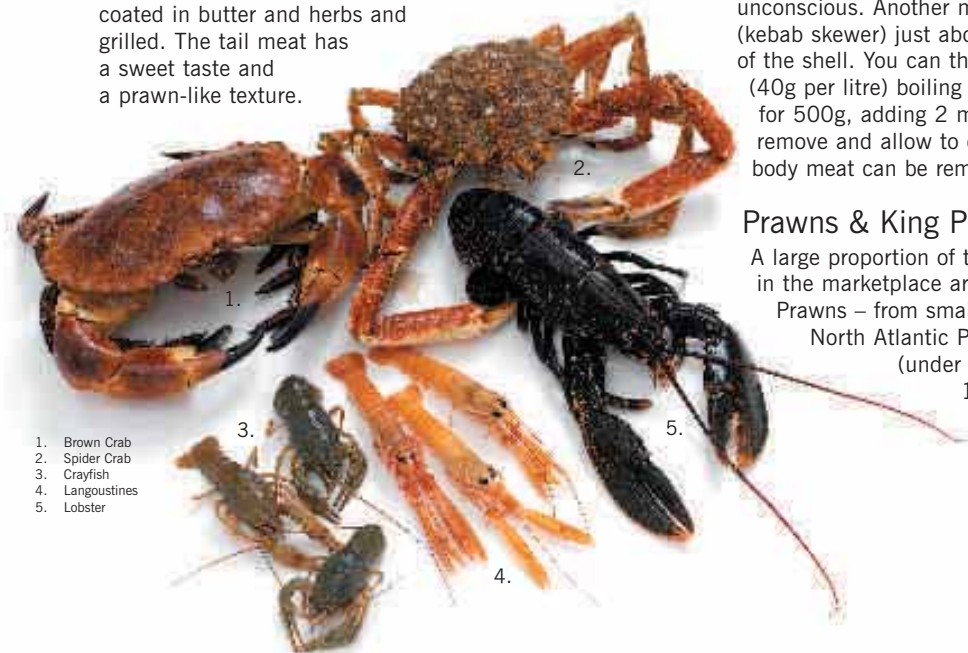
This freshwater crustacean looks like a small Lobster – averaging 10cm / 55g. The tail meat is succulent with a Prawn-like texture and a lovely sweet taste. European wild Crayfish are almost extinct and not recommended, but other species are successfully farmed around the world. Whole Crayfish are available frozen though harder to get fresh, and can be cooked like a Lobster. Fresh tail meat preserved in brine is readily available and is ideal for salads, pasta and any prawn dishes. Not to be confused with Crawfish.

## Crawfish

A seawater species sometimes called Spiny or Rock Lobster and regularly confused with Crayfish, Crawfish can grow larger than Lobsters. They have a Lobster's shape but no large claws, and only the tail meat is eaten. Found in most European waters, but most UK catch is exported to the continent. Very popular in Australia, use as per Lobsters.

## Langoustines

As nice as a basket of scampi and chips can be on occasion, it is not the best use of this superb species. Also known as Dublin Bay Prawns, Nephrops and Norwegian Lobster, Langoustines vaguely resemble a large King Prawn, but are actually a closer relation of the Lobster, growing up to 250g. They are great roasted in the oven and served whole with lemon and mayonnaise or split in half, coated in butter and herbs and grilled. The tail meat has a sweet taste and a prawn-like texture.



1. Brown Crab
2. Spider Crab
3. Crayfish
4. Langoustines
5. Lobster

Instant guide to...

Brown Crab

Meat flavour

Mild

Medium

Strong

Sweet

Earthy

☐

☒

☐

☒

☐

Flesh texture

Soft

Medium

Firm

Meaty

Small Flakes

Large Flakes

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Oil content

Low

Medium

High

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Sauces/flavours

Creamy

Sharp

Strong/spicy

Delicate

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☒

☒

☐

Price guide

Low

Medium

High

☐

☒

☐

Best cooking methods

Pan Fry

Griddle

Grill

Deep Fry

Bake

Poach

Steam

Boil

Microwave

Whole

Peices

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Availability (details on p.4-7)

All year round.

Season is April to Sept as is best availability.

Alternatives

Spider Crab, Blue Crab, Blue Swimming Crab

## Brown Crabs

Cocks (males) contain more white meat than Hens (females) and are preferred by chefs. To identify them, Cocks have larger claws and their tail flap is narrower and more pointed. Cocks range in size from 1 to 2kg, with an approximate 35% yield, and more white meat than brown. There are other Crabs to look out for such as the Spider Crab, Snow Crab and Blue Crab, which all have similar tasting meat. Also available is the Blue Swimming Crab, found around the Pacific Rim. Whole frozen Blue Swimmers are imported, but the main demand is for the 454g tubs containing large lumps of succulent meat, which is pasteurised and chilled, giving it a 6 month shelf life. It is superb for crab cakes, chowders, salads and pasta. Before cooking live Crabs, the RSPCA recommend you first place them in a freezer for two hours, which renders them unconscious. Another method is to insert a pointed rod (kebab skewer) just above the mouth and push to the back of the shell. You can then plunge them into heavily salted (40g per litre) boiling water and simmer for 15 minutes for 500g, adding 2 minutes per additional 100g. Then remove and allow to cool. Alternatively the claws and body meat can be removed and steamed or stir-fried.

## Prawns & King Prawns

A large proportion of the 'fresh' Prawns you will find in the marketplace are actually defrosted frozen Prawns – from small, succulent cooked and peeled North Atlantic Prawns to giant, meaty U10 (under 10 prawns per kg / each 100g+) raw whole Black Tiger Prawns. Freezing at source locks in the freshness, and provides better choice, availability, convenience, quality and value.



King Prawns





Bivalves are shellfish with two shells joined by a hinge, examples include Oysters and Mussels. Other shellfish such as the gastropods (members of the snail family) have only one shell, examples include Limpets and Whelks.

Rope-grown Mussels are cultivated on suspended ropes, which ensures they don't touch the seabed and pick up grit and barnacles. Their bluish-black shells are thinner as they are grown in sheltered waters so the shells don't need to endure stormy seas. The meat content is higher as they are not exposed at low tides and so constantly feed.

Ensure the Mussels are clean and free of barnacles; remove any 'beard' (also known as 'byssus thread', and is what attached the Mussel to the rope or rock it grew on), and simply steam in the serving sauce or over a bed of seaweed. Discard any that do not open. There are classic recipes such as moules marinières and moules provençale, and you can't imagine paella without them. Frozen Mussels are good quality, and include New Zealand Greenlip Mussels, which have a different taste and are much bigger, making them great for topping and grilling.

35

Instant guide to...

Scallops

<b>Meat flavour</b>		<b>Flesh texture</b>		<b>Oil content</b>		<b>Sauces/flavours</b>	
Mild	<input type="checkbox"/>	Soft	<input checked="" type="checkbox"/>	Low	<input checked="" type="checkbox"/>	Creamy	<input type="checkbox"/>
Medium	<input checked="" type="checkbox"/>	Medium	<input checked="" type="checkbox"/>	Medium	<input type="checkbox"/>	Sharp	<input checked="" type="checkbox"/>
Strong	<input type="checkbox"/>	Firm	<input type="checkbox"/>	High	<input type="checkbox"/>	Strong/spicy	<input type="checkbox"/>
Sweet	<input checked="" type="checkbox"/>	Meaty	<input checked="" type="checkbox"/>			Delicate	<input checked="" type="checkbox"/>
Earthy	<input type="checkbox"/>	Small Flakes	<input type="checkbox"/>				
		Large Flakes	<input type="checkbox"/>				

<b>Price guide</b>		<b>Best cooking methods</b>										
Low	<input type="checkbox"/>	Meat	Pan Fry	Griddle	Grill	Deep Fry	Bake	Poach	Steam	Boil	Microwave	
Medium	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
High	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

<b>Availability</b> (details on p.4-7)		<b>Alternatives</b>	
All year round.		Frozen Scallops	
Season runs from Sept to Mar, but best from Mar to Nov.			

Scallops

The attractive fan-shaped shells contain translucent off-white meat wrapped with a bright orange roe or coral, which has a different taste and texture. The membrane, grey-brown frill and black thread of intestine are all discarded. King Scallops have approximately 15cm wide shells (one rounded, one flat) and you get 18 to 35 pieces of meat per kg. Queen Scallops have approximately 7cm wide shells (both rounded), and you get 40 to 120 pieces of meat per kg. They can be sold either in the shell or as shelled meat – with or without the roe. The easiest way of catching Scallops is through dredging, but we also have a market for premium quality diver-caught Scallops. Because the meat acts like a sponge, there is a long history of ‘soaking’ Scallops to increase the weight. A superb starter with or without shells, Scallop meat has a sweet, delicate flavour, and requires very little cooking – the simpler the better. Best either steamed, pan-fried or grilled.



Oysters

There are three main varieties available in the UK – Native, Pacific (or Rock Oysters), and Portuguese. The Native Oyster (available from September to April) is considered the best, but takes twice as long to grow, making it more expensive. Pacific are available year round. All Oysters should feel heavy for their size and be kept with the round ‘cupped’ part of the shell facing downwards to retain the moisture. Despite their modern image as a luxury food, Oysters used to be a cheap working class food, and used in a traditional British Beef and Oyster pie. Now commonly served raw with lemon and pepper, though stronger salsa type toppings are also used. Oysters can also be steamed open like Mussels, topped then grilled or baked, or the meat can be removed, coated in tempura batter and deep-fried.



Clams

There are several varieties of Clam; all are round and stone-like except the Razor Clam, so called because it resembles a cut-throat razor. Amande, Hardshell, Venus and Razor Clams are the most common varieties. Palourdes (or Carpet Shell) are considered the finest Clams and command a much higher price. Once washed and scrubbed, they are used in some classic dishes such as Linguine alle Vongole and New England Clam Chowder. They can also be served raw like Oysters.



Cockles

The main fisheries for Cockles include the Thames Estuary, Morecombe Bay and Burry Inlet. They are very similar to Clams and can be cooked in the same ways. Often associated with trips to the seaside, where Cockles are sold in small pots by local vendors.

Whelks & Winkles

Both are univalves with ribbed spiral shells and a similar appearance to a snail. They can grow up to 12cm. The meat is juicy with a strong flavour, and a chewy texture. Whelk meat is often sold cooked, but if raw, soak for several hours in salty water, before steaming for 5 minutes. Serve with lemon juice, salt and pepper or with the traditional malt vinegar and a winkle picker. Winkles are a similar shape to Whelks, but rarely grow beyond 3cm and have much darker coloured shells. Cook in the same way.



1. Native Oysters  
2. Pacific Oysters



Oyster shucking

Hold the Oyster cupped side down in a cloth with the hinge towards you. Wiggle the blade of a short, strong, blunt knife between the two shells and twist to open slightly.



Run the blade along the inside of the upper shell to sever the upper shell from the meat and discard the shell. Then run the blade under the meat to free it from the cupped shell.



# Cephalopods

These are technically Molluscs, but in both appearance and cooking method they are completely different. Cleaning and preparing Cephalopods can be time consuming and is very messy, so you may want your supplier to do it.

## Squid

The best loved cephalopod; Squid has a firm texture, and a strong flavour. Also known as Calamari, Squid range in size from 100g to 1kg. Cleaning and preparing Squid: Pull the body from the tentacles. Cut the head from the tentacles just below the eyes and discard (though you may want to save the ink sack\* if you can find it – invariably they will have ‘shot’ it on capture). Squeeze out the ‘beak’ from the centre of the tentacles. Remove the quill from inside the body (looks like a piece of transparent plastic), wash it out and then wash off the membrane on the outside. Then cut the fins from the body, which like the tentacles, can be kept and used. Once cleaned and prepared, the body (or tube) can be good for stuffing and steaming or baking, small whole Squid can be grilled, pan-fried or griddled and large Squid can be opened out flat, scored and cut into pieces with the tentacles for stir-frying.

\*Squid ink is widely used in making pasta and risotto, and gives it a rich black colour and a delicious fishy taste. It freezes well, and can even be sold separately, so you don't need to buy Squid to get it!

Squid



Cuttlefish

## Cuttlefish

Very similar to squid, but can be tougher, and not as readily available as most UK landings are sold to France and Spain. Usually range from 225-500g. Contains the hard white bone often seen in bird cages!

## Octopus

It can be difficult to cook, as it can easily become tough and rubbery. Much of the Octopus in the market place is ready prepared and frozen, and this is no bad thing as it helps to tenderise it. There are many schools of thought on how best to cook it. Most chefs thoroughly beat it first (the Greeks used to do this on the rocks!), and it is then cooked either very slowly or very quickly – but never in-between.



Octopus

Instant guide to...

Squid

Flesh flavour

Mild

Medium

Strong

Sweet

Earthy

☐

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☐

☒

☐

Flesh texture

Soft

Medium

Firm

Meaty

Small Flakes

Large Flakes

☐

☐

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Oil content

Low

Medium

High

☒

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Sauces/flavours

Creamy

Sharp

Strong/spicy

Delicate

☐

☒

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Price guide

Low

Medium

High

☐

☒

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Best portions

Whole

Pieces

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Best cooking methods

Pan Fry

Griddle

Grill

Deep Fry

Bake

Poach

Steam

Boil

Microwave

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Availability (details on p.4-7)

All year round.

Season runs from May to Oct, but the best availability and quality is from Oct to Mar.

Alternatives

Cuttletfish, Octopus

# Salmon and Trout



## Salmon (Atlantic)

Incredible to think that this was once a luxury fish only available to the wealthy. As wild Salmon stocks decrease, the development of farmed Salmon has not so much bridged the gap, more like blown it wide open, making it very affordable and our biggest selling species – by a long, long way! Available from February through to August, they are firmer, have more flavour, and in short supply – which is all reflected in the price. Wild fish have been caught as large as 45kg, but are usually up to around 15kg. Farmed fish range from 2kg to 8kg. Certified organic farmed Salmon is also available on request – wild caught fish are not classed as organic!

The most popular portion is the suprême – with or without the skin, though steaks are also widely used and are good value. Salmon can be cooked in most ways, with a vast array of flavours and recipes. It is also very good eaten cold with a flavoured mayonnaise, making it a good choice for summer functions.

Salmon (Pacific)

There are six species of Pacific Salmon (see page 6). Wild Pacific Salmon is caught between May and September and its flesh has a darker colour than its Atlantic counterpart and is slightly less oily, but can be cooked in the same ways. Not easy to get fresh, but it freezes very well, providing wild Salmon at a very keen price.

1. Salmon (Atlantic)
2. Sea Trout
3. Brown Trout
4. Rainbow Trout
5. Golden Trout

## Instant guide to... **Salmon (Atlantic, farmed)**

Flesh flavour

Mild

Medium

Strong

Sweet

Earthy

☐

☒

☐

☐

☐

Flesh texture

Soft

Medium

Firm

Meaty

Small Flakes

Large Flakes

☐

☒

☐

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☐

☒

Oil content

Low

Medium

High

☐

☒

☒

Sauces/flavours

Creamy

Sharp

Strong/spicy

Delicate

☒

☒

☒

☐

Price guide

Low

Medium

High

☒

☐

☐

Best portions

(details on p.43-45)

Whole

Fillets

Suprêmes

Steaks

Pavés

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Instant guide to... **Rainbow Trout**

<b>Flesh flavour</b> Mild <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Strong <input type="checkbox"/> Sweet <input checked="" type="checkbox"/> Earthy <input checked="" type="checkbox"/>	<b>Flesh texture</b> Soft <input checked="" type="checkbox"/> Medium <input checked="" type="checkbox"/> Firm <input type="checkbox"/> Meaty <input type="checkbox"/> Small Flakes <input checked="" type="checkbox"/> Large Flakes <input type="checkbox"/>	<b>Oil content</b> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High <input checked="" type="checkbox"/>	<b>Sauces/flavours</b> Creamy <input checked="" type="checkbox"/> Sharp <input checked="" type="checkbox"/> Strong/spicy <input checked="" type="checkbox"/> Delicate <input checked="" type="checkbox"/>
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<b>Price guide</b> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/>	<b>Best portions</b> (details on p.43-45) Whole <input checked="" type="checkbox"/> Fillets <input checked="" type="checkbox"/> Suprêmes <input type="checkbox"/> Steaks <input type="checkbox"/> Pavés <input type="checkbox"/>	<b>Best cooking methods</b> <table border="1"> <tr> <th></th> <th>Pan Fry</th> <th>Griddle</th> <th>Grill</th> <th>Deep Fry</th> <th>Bake</th> <th>Poach</th> <th>Steam</th> <th>Boil</th> <th>Microwave</th> </tr> <tr> <td>Whole</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Fillets</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Suprêmes</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Steaks</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Pavés</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>		Pan Fry	Griddle	Grill	Deep Fry	Bake	Poach	Steam	Boil	Microwave	Whole	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fillets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Suprêmes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Steaks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pavés	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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**Availability** (details on p.4-7)  
All year round.  
Farmed all year, wild season from May to Nov.

**Alternatives**  
Sea Trout, Salmon



## Rainbow Trout

Originally found in the lakes and streams draining from the Pacific slope, from Alaska to northern Baja Mexico, as well as the Pacific coastal stream of Asia. Rainbow Trout have been successfully farmed for many years, is great value and always popular on spring and summer menus. The name comes from its shimmering colours ranging from olive to bluish-greens, with a pinkish-red band along the length. Ranging in size from 230g to 1kg Trout have a more subtle flavour than Salmon with smaller flakes. As well as portion sized whole fish and fillets, try canoed fish or butterfly-cut fillets, which can be filled and give great presentation. Trout fillets are also ideal for hot smoking. There are many classic Trout dishes, but there is an increasing trend to use stronger, spicier flavours.



## Brown Trout

Also known as river Trout or lake Trout, freshwater Brown Trout has brownish-yellow skin with numerous black and rusty red spots on its upper sides. Not to be confused with the wild Sea Trout, portion size Brown Trout have a delicate, sweet flavour. Organic Brown Trout are available as they are particularly suited to organic farming.



## Golden Trout

Only two fisheries in the UK farm these Trout, which originate in the high altitudes of the northern Rocky Mountains of the United States, where the Americans call them the 'fish from heaven'. With its distinctive yellowish-gold skin, it looks more attractive than its rainbow cousins. A good eating, portion sized fish, with a rich red flesh and firmer texture than other Trout.



## Sea Trout

This much sought-after fish is wild, and often known as Ocean Trout or Salmon Trout as it has a very similar appearance to Salmon, with a taste and texture midway between the two. Although it is classed as the same species as Brown Trout, Sea Trout migrates to the sea, which the Brown Trout doesn't. The season runs from 1 March to 31 August, though it is now being farmed which will widen the availability. Ranges in size up to 5kg, and can be cooked as with Salmon or Trout.



## Brook Char

Belonging to the Char group of fish, Brook Char are distinguished from most Trout and Salmon by a lack of any black spots on their body. Farmed in Wiltshire from April to September.



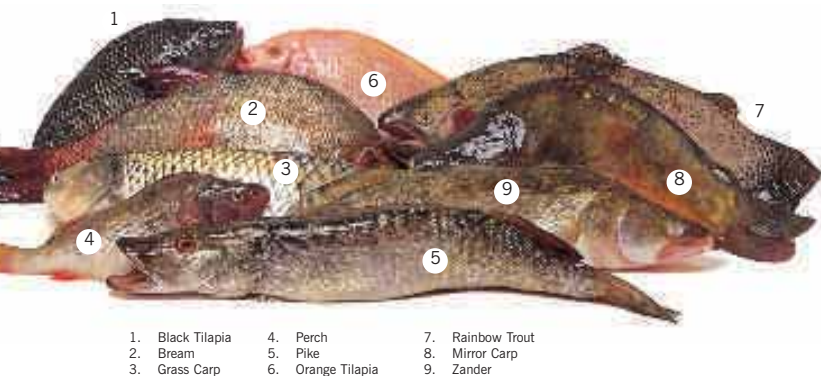
## Arctic Char

There are freshwater Char found around northern Europe (especially famous in the Lake District around Lake Windermere), and migratory Char in Arctic waters around Canada and Alaska. Portion sized Arctic Char is successfully farmed all year round.



Smoked Rainbow Trout Fillets

# Freshwater fish



- |                  |                   |                  |
|------------------|-------------------|------------------|
| 1. Black Tilapia | 4. Perch          | 7. Rainbow Trout |
| 2. Bream         | 5. Pike           | 8. Mirror Carp   |
| 3. Grass Carp    | 6. Orange Tilapia | 9. Zander        |

## Bream

Similar, though not as good as a Sea Bream, freshwater Bream have a very mild taste, so require strong flavours to get the best from them.

## Carp

Originating from China, this prized angling fish can grow to 3kg+ though its commercial availability comes from farming where they grow from 450g to 1.5kg. There are various species including Mirror, Grass and Leather Carp, all of which have tough scales. Wild fish will be muddy, but farmed fish less so. Can take strong flavours, and portion-sized fish can be cooked like Sea Bass.

## Catfish

There are both sea and freshwater Catfish. The freshwater species are farmed in much of the world including North and South America, Europe and Africa. They have a firm texture and mild taste, which requires strong flavours.

## Perch

It's of the better eating freshwater fish, but mainly viewed as an anglers' fish and more popular on the continent. Perch has firm white flesh with a good flavour, and can be cooked like Trout.

## Pike

A long, slender, predatory fish, which often grows beyond 5kg, but is usually available from 1.5kg to 2.5kg. Pike has soft flesh with a delicate flavour, which can be cooked like Trout, but is very bony so it's best to serve it filleted.

## Striped American Sea Bass

Farmed in the freshwaters of the Mississippi, this is very similar to our native Sea Bass (see page 29).

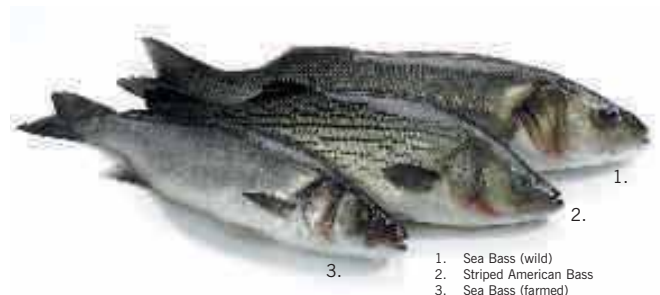
## Tilapia

A native of the Nile but now farmed worldwide, Tilapia is very popular in America and widely used in Asian cuisine. The most common varieties in the UK are the Orange (pictured), Red and Black Tilapia, available whole from portion size 300-500g fish up to 2kg. All Tilapias have firm white flesh, with a mild taste that requires either marinating or an accompanying sauce – both strong and light flavours work, as will any Plaice recipe.



## Zander

From the Perch family and sometimes called Pike-Perch. Ranges from 450g to 4.5kg, but not often found in UK, preferring the warmer European waters. Zander is also farmed in Europe making it readily available. Generally regarded to have better flavour than most freshwater fish.



- |    |                       |
|----|-----------------------|
| 1. | Sea Bass (wild)       |
| 2. | Striped American Bass |
| 3. | Sea Bass (farmed)     |



# Smoked and preserved fish

## Smoked fish

Originally devised as a method of preserving fish, smoking also adds a different dimension to the taste and texture. There are two basic methods of smoking fish:

- **Cold smoking** – The most commonly used technique; smoke gently infuses the fish without cooking it, eg smoked Salmon.
- **Hot smoking** – Uses smoke hot enough to cook the fish, eg Kippers, Bloaters and Mackerel.

The most popular species for smoking is Salmon. One of the advantages farmed Salmon has over wild is its higher and more consistent oil content, which makes it ideal for smoking. Whole skin-on salmon fillets are cured with salt and sugar for 14 hours, then washed and rested for 24 hours before being smoked for 9-10 hours over a cold smoke from a hard wood (usually oak and beech). They are then allowed to cool before being prepared to the required specification. However, the most important part of this process is not the smoking, but the curing. This is where the smoker has to ensure there is exactly the right amount of salt in the finished product – and they all have their secret recipes! Smoked Salmon is clearly something every chef has a strong opinion on.



As well as Salmon, other oil-rich fish are well suited to the process such as Trout, Mackerel and Herrings (Kippers). Halibut, Tuna, Marlin, Sturgeon, Scallops, Mussels, Oysters and Prawns also work well as do Eel fillets, though they are extremely rich.

Although not oil-rich, Haddock takes the smoking process especially well, and cold smoked fillets provide the basis of any great kedgeree or fish pie. The bright yellow colour often associated with Smoked Haddock is a dye, historically used to compensate for a reduced smoking time, which lowered the cost. While dye is still used, there is increased demand for natural Smoked Haddock, which has a subtle, beige colour. Finnan Haddock originated in the Scottish fishing village of Findon, where whole fish were headed, gutted and split open leaving the backbone and tail intact, then soaked in brine before cold smoking over peat. Arbroath Smokies are small whole Haddock, gutted and headed, which are dry salted and hot smoked. Cod is also smoked, but is not as popular as the sweeter flavoured Haddock.

## Gravadlax

Also referred to as 'Gravlax' and 'Gravad lax', this is a Scandinavian speciality, and always on a smorgsbord buffet. A whole fillet of Salmon is covered with a mix of fresh dill, sugar, salt and peppercorns, tightly wrapped in clingfilm, and weighted down. It is then refrigerated for 2 days turning 3-4 times, before being thinly sliced and served – traditionally with a mustard sauce. Thicker slices can also be pan-fried, and the recipe also works with Mackerel.



## Pickling and Marinading

Various cures such as vinegar, white wine, Madeira and sour cream can be used to preserve fish, and is very popular in Scandinavian countries. Herrings are most commonly used, the best-known recipe being Rollmops – rolled Herring fillets in white wine vinegar with onions.

## Salting

Fillets of Cod (or any Cod-like species) can be placed on a bed of salt and covered generously with more salt, and left for several weeks. This draws out the moisture, stopping bacteria forming. To use salted fish requires it to be soaked in clean water for around 24 hours, with several changes of water. Salted Cod is very popular in Spain and Portugal (the Portuguese pride themselves on having a different recipe for every day of the year!) where it is known as Bacalao and Bacalhau respectively. Also used in the famous French dish 'Brandade de Moreau', where it is flaked into mashed potatoes.

# Sea Vegetables

## Sea Vegetables

### Samphire

Found along coastlines of the UK and northern France near estuaries and rocky pools as well as marshland, Samphire has small green branches with tips – like a small salty asparagus, and is indeed often known as sea asparagus. Blanching or steaming removes some of the salty flavour. Fresh is best between May and September, after which it can be too woody. It is also pickled, which is available year round.

### Seaweed

Seaweed is among the richest sources of vitamins on earth and retains a concentration of minerals, fibres and proteins. It is especially suited to accompany fish or shellfish and is very easy to use. Simply rinse 2/3 times in fresh, cold water and then soak for 5 minutes. There are about five and a half thousand species of Seaweed but here are the more popular types of edible Seaweed most suited to cooking, classified in 3 colour categories – Brown, Red and Green.

### Brown (becomes green after cooking)

- Kombu – Also known as Neptune's Belt or Kelp, Kombu is delicious in soups and its wide strands make it ideal for making papillotes and wrapping whole fish with to bring out some extra flavour.
- Wakame – Has an almost oyster flavour, suited to soups and salads and is the best-suited seaweed for serving as a vegetable dish. Used in Japanese miso soup.
- Sea Spaghetti – This long, almost flat, spaghetti-like seaweed is also known as 'sea thong'. Pan-fried for a few minutes with garlic, salt and pepper, Sea Spaghetti makes a great accompaniment to a portion of fish and is great with Scallops. Use like a green bean, they are ideal for mixing into pasta and salads.

### Red

- Dulse – Has a slightly crunchy, nutty taste and is very popular in Ireland, where it is called Dillisk. It can be served raw with a normal salad, added to a stir-fry, or used to enhance the flavours of a fish pie.
- Carrageen – Often called Irish Moss, Carrageen is very common around the European and American coastline. The colour is rich, dark red but, once dried in the open air, it bleaches to a creamy colour. Carrageen is well known for its gelling qualities, and is often used in place of gelatine in sorbets, ice cream, chocolate, cheese and instant soups.
- Nori – Also known as laver or purple laver, Nori belongs to the red seaweed family, but becomes black or green when dry. Dried and pressed, Nori is widely used by the Japanese in sushi, and of course it's also used for the famous Welsh and Barnstaple laver bread.

### Green

- Sea Lettuce – The most popular seaweed, sometimes known as green laver, it has a taste almost like sorrel, and is delicious in a salad or soup. Like Kombu, the wide leaf shape is good for wrapping round a portion of fish and gently steaming. You can deep-fry it too for some real crispy seaweed.

Sea Lettuce



# Handling & Storage

Seafood should always be well iced in transit no matter how short the journey. Recent changes in legislation have also meant that seafood on the auction market must be kept at a chilled temperature.

During processing, the temperature of the seafood can rise significantly when it is removed from chilled storage awaiting processing. These waiting times should be kept to a minimum, and any processing water should be iced or chilled.

At the supermarket, it is essential that seafood arriving is rapidly transferred from the reception/loading bay to the chill store.

Seafood in store should be date-coded and used in strict rotation.

Shellfish should not be allowed to dry out or be subject to draughts as such conditions will shorten their shelf-life. Recent research has shown that physical shock can be harmful to live molluscs. Therefore, bags of mussels and oysters should never be dropped as this will lead to a more rapid die-off rate.

Frozen seafood may be transported at temperatures as high as -15°C but must be stored at or below -18°C. Incoming frozen produce should be transferred to the cold store immediately. Partial thawing damages product texture and appearance leading to a poor eating experience.

Product that has thawed should be rejected and packaging should be checked for damage, as exposed seafood will readily become freezer-burnt. Product should be dated on receipt and used in rotation. The condition of the store itself should be periodically checked – in particular the door seals and chiller units. Correct storage of products to allow good air circulation is essential.

Temperature control is vital in slowing down the spoilage processes. The warmer the fish is the more quickly the bacteria and enzymes act to produce unpleasant smells and bitter tastes. The following table indicates just how fast fish can go off.

Shelf-life of whitefish from date of capture - typical guide values	
Temperature	Shelf-life
0°C	10 days
+5°C	3 days
+16°C	1 day

0°C is the temperature of melting ice, +5°C is a little colder than the average household fridge and +16°C is around the same temperature as a warm spring or autumn day.

Use of ice in conjunction with refrigeration enables fish to last longer. The ice cools the fish more rapidly than mechanical refrigeration alone and, in melting, the ice keeps the fish moist whilst 'washing away' bacteria.



# Quality

## Maintenance of fish and shellfish quality

Seafood is a very perishable product.

- Spoilage occurs as soon as the fish or shellfish dies and is mainly caused by the action of enzymes and bacteria.
- Enzymes are present in the flesh of living fish and help to convert the food the fish eats into tissue and energy. When the fish dies these enzymes carry on working and break down the flesh itself.
- Bacteria multiply rapidly on dead fish and can cause many of the off odours we associate with poor quality fish.
- Oil-rich fish, such as Herring or Mackerel, also spoil when their fat is attacked by oxygen in the air causing the product to go rancid.
- Nothing can prevent these natural processes taking place, but they can be slowed down.

## Fish Quality Indicators

Indicators of fish quality are the best tools a fish retailer has in judging the delivery that has been received. By applying these you can ensure that the customer buys the quality expected from a reputable fish retailer. Repeat custom depends on the quality of the product.

Fillets of wet fish (may have been previously frozen):

- The flesh should be translucent.
- The flesh should be firm and not 'ragged' or gaping.
- The flesh should not retain an indentation when pressed lightly with a finger.
- There should be no smell of ammonia or sour odours.
- There should be no bruising, blood clots or parasites.
- There should be no areas of discolouration.

## Frozen Fish

- Where frozen fish is packaged, the packaging should be undamaged.
- There should be no evidence of freezer burn.
- There should be no evidence of the fish having partially thawed and then re-frozen.
- The thawed fish should be firm and not ragged or gaping.
- Some, but not excessive glazing, helps to prevent freezer burn.

## Eating Qualities

At the time of sale, fish must possess the flavours characteristic of the species. Sour, bitter or rancid flavours are not acceptable. When frozen fish or previously frozen fish is being sold it should have the following traits:

- Be free of objectionable cold storage odours and flavours.
- Have a firm but not tough texture.
- Have a juicy and tasty mouth feel.

# Instant guide to... Cuts and portions

**Whole fish size definitions**  
 Small – up to 300g  
 Portion Size – 300-600g  
 Medium – 600g-3kg  
 Large – 3kg+

Portion	Type of fish required	Examples of species
Whole fish – pan-ready	Any portion size round or flatfish	Sea Bass, Sea Breams, Trout, Snappers, Emperors, Red Mullet, Mackerel, Dover Sole, Plaice, Lemon Sole
Fillets	Any round-fish or flatfish except large game fish (loins)	Almost all of them! Salmon, Trout & any freshwater fish, any flatfish, any round fish – coldwater or warmwater.
Butterfly fillets	Small to portion size round-fish	Sardines, Herrings, Trout, Sea Bass, Mackerel, Red Mullet
Quarter-cut fillets	Small to medium size flatfish	Plaice, Lemon Sole, Turbot, Brill, Chick Halibut
Canoe fillets	Portion sized round-fish	Trout, Sea Bass, Sea Breams
Pocketed fish	Portion size flatfish	Plaice, Lemon Sole, Megrim, Witch, Dab, Flounder
Steaks (Darnes)	Large round-fish	Salmon, Cod, Hake, Monkfish
Steaks (Tronçons)	Large flatfish	Halibut, Turbot, Brill
Loins	Large round-fish and large game fish	Cod, Hake, Tuna, Marlin, Mahi Mahi
Suprêmes	Large round-fish and flatfish fillets, and loins of large game fish.	Salmon, Cod, Halibut, Turbot, Snappers, Barracuda, Barramundi, Tuna, Marlin, Mahi Mahi, Kingfish
Escalopes	Fillets from large fish	Salmon, Halibut
Pavés	Large flatfish	Halibut, Turbot, Brill

# Yields

Skin-on unless stated (for skinless portions the yield will reduce by approximately 10%).

What size of fish do I need for  
10 x 170-200g portions?

Whole fish	Cut	Preparation required	Size of whole fish required	Ave yield per fish (g)	Yield per fish (%)	Portions per fish	Fish req.
Barracuda	Suprêmes	Scaled, filleted, boned & portioned	3kg	1.1kg	37%	6	2
Barramundi	Suprêmes	Scaled, filleted, boned & portioned	3-4kg	1.365kg	39%	6-8	2
Brill	Suprêmes	Filleted, trimmed & portioned	3-4kg	1.225kg	35%	6	2
Brill	Fillets	Filleted	750g	375g	50%	2	5
Brill	Pavés	Headed, trimmed & portioned	2-3kg	1.5kg	60%	8	2
Cod	Fillets	Filleted	750g	375g	50%	2	5
Cod	Suprêmes	Filleted, boned & portioned	4-6kg	1.5kg	30%	8	2
Cod	Steaks	Headed, trimmed & portioned	3-4kg	1.75kg	50%	8	2
Coley	Fillets	Filleted	680g	340g	50%	2	5
Dover Sole	Fillets	Filleted	680g	340g	50%	2	5
Gilthead Bream	Fillets	Scaled, filleted & boned	850g	375g	44%	2	5
Grey Mullet	Fillets	Scaled & filleted	900g	360g	40%	2	5
Haddock	Fillets	Filleted	750g	375g	50%	2	5
Hake	Steaks	Headed, trimmed and portioned	2-3kg	1.25kg	50%	7	2
Hake	Suprêmes	Scaled, filleted, boned & portioned	2-3kg	750g	30%	4	3
Halibut	Suprêmes	Filleted, trimmed & portioned	5-7kg	2.22kg	37%	12	1
Halibut	Steaks	Headed, trimmed & portioned	3-4kg	2.31kg	66%	12	1
Halibut	Pavés	Headed, trimmed & portioned	5-7kg	3.96kg	66%	20	1
John Dory	Fillets	Filleted and trimmed	1kg	375g	35%	2	5
Lemon Sole	Fillets	Filleted	650g	375g	57%	2	5
Mackerel	Fillets	Filleted	650g	375g	50%	2	5
Mackerel	Butterfly Fillets	Filleted	340-400g	185g	50%	1	10
Monkfish	Fillets (skinless)	Headed, skinned & filleted	1.8kg	375g	21%	2	5
Monkfish	Steaks (skinless)	Headed, skinned & portioned	4-5kg	1.1kg	24%	6	2
Plaice	Fillets	Filleted	750g	375g	50%	2	5
Plaice	Pocketed	Pocket filleted	340-400g	185g	50%	1	1
Red Mullet	Fillets	Scaled, filleted & boned	950g	380g	40%	2	5
Salmon	Suprêmes	Scaled, filleted & portioned	3-4kg	2.03kg	58%	10	1
Salmon	Steaks	Headed, trimmed & portioned	3-4kg	2.275kg	65%	12	1
Sea Bass	Fillets	Scaled, filleted & boned	850g	375g	44%	2	5
Snapper	Suprêmes	Scaled, filleted, boned & portioned	2.5-3kg	770g	28%	4	3
Snapper	Fillets	Scaled, filleted & boned	950g	375g	40%	2	5
Squid	Whole	Clean & trimmed	300g	180g	60%	1	10
Tilapia	Fillets	Scaled, filleted & boned	950g	380g	40%	2	5
Trout	Fillets	Filleted, skinned, trimmed & boned	950g	380g	40%	2	5
Trout	Canoe Filleted	Canoe filleted	290-340g	205g	65%	1	1
Turbot	Fillets	Filleted	750g	375g	50%	2	5
Turbot	Suprêmes	Filleted, trimmed & portioned	3-4kg	1.2kg	34%	6	2
Turbot	Pavés	Headed, trimmed and portioned	3-4kg	2.1kg	60%	11	1
Whiting	Fillets	Filleted & boned	950g	380g	40%	2	5
Witch	Fillets	Filleted, skinned & trimmed	1-1.3kg	375g	35%	2	5
Large loins	Cut (all skinless)	Preparation required	Size of loin required	Yield per loin (g)	Yield per loin (%)	Portions per loin	Loins req.
Mahi Mahi	Suprêmes	Trimmed & portioned	2-2.5kg	10 x 170-200g	85%	10	1
Marlin	Suprêmes	Trimmed & portioned	2-2.5kg	10 x 170-200g	85%	10	1
Tuna	Suprêmes	Trimmed & portioned	2-2.5kg	10 x 170-200g	85%	10	1
Shellfish	Portion sizes						
Lobster	Use a 500-600g whole lobster per person (half a 600g for a starter). The yield is approximately 35%.						
Crab	Use 500-600g of whole crab (300g for a starter). The yield is approximately 35%.						
Scallops (King)	Serve 3-5 per serving.						
Mussels	Serve 500g per person (300-400g for a generous starter).						
Oysters	6 are usually served for a luxurious starter (not often served as a main course).						

These are generally available sizes which are ideal for the cut required. However, fish aren't always available in the perfect size, so please be prepared to make allowances. The yields are the optimum yield when fish is at its best. When fish are full of roe the yields will be less.



# Learn something new today!

If the Seafood Guide has wetted your appetite and you want to learn something new about seafood then the following resources, sources and courses may be just what you need.

## Resources

- Fish Identification, Basic Seafood Preparation and Food Safety – all available on a single DVD.
- Open Learning (OL) Modules on food safety, maintenance of quality, fish smoking, fishmongering, fish filleting and others available at a modest cost.
- For the more advanced student and those who are passionate about seafood, there is *Seafood and Eat It*, a seafood masterclass in six parts. Probably the most comprehensive seafood collection on DVD, the pack contains six DVDs on:
  - Identifying seafood
  - Basic preparation
  - A Masterclass in preparing round-fish
  - A Masterclass in preparing flatfish
  - A Masterclass in shellfish and oil-rich fish
  - Seafood quality assessment

Information on all of the above is available from [training@seafish.co.uk](mailto:training@seafish.co.uk) or telephone 01472 252302.



## Sources

There are a number of useful sources of information on seafood as well as organisations that you can contact.

### [www.seafoodacademy.org](http://www.seafoodacademy.org)

The online presence of the Seafood Training Academy has Galleries on seafood, frying skills, quality assessment, seafood science, and careers, as well as a Library and information on training courses and the Partners within the Academy.

### [www.foodanddrink.nsacademy.co.uk](http://www.foodanddrink.nsacademy.co.uk)

The National Skills Academy for Food Manufacturing is an employer led organisation dedicated to providing the training the food and drink industry needs to develop the skills of employees and drive the competitiveness of the sector. Their website contains a host of useful food industry related information.

### [www.seafish.org](http://www.seafish.org)

The Seafish website contains links to both their Business to Business (B2B) site and also to the Seafood Information Network (SIN). Well worth a look.

## Courses

If you are interested in seafood cooking courses, food hygiene courses or want to learn how to fillet, batter and fry fish, then such courses are available. The range of courses available is growing each year, as are the trainers able to provide these courses. For an up to date view of what is available please contact an appropriate Seafood Training Academy Partner, your regional training association or email [training@seafish.co.uk](mailto:training@seafish.co.uk)

Basic cooking of fish course (OCN accredited):  
Customer Service Skills (OL) – Fish Frying Skills (1-day)  
– Bivalve Purification Management – Fish Frying Skills (OL) – Seafood Quality Assessment (Introduction) – Seafood Quality Assessment (Advanced) – Seafood Identification & Product Awareness – Food Safety Levels 1 to 3 – Health & Safety Level 1 and 2 – Introduction to HACCP – Bivalve Purification Operations – Fish Frying Skills (3-day) – Bivalve Purification Training – Filleting and cooking for schools – Bivalve Purification Inspections – Seafood Smoking (Advanced) – Fish Filleting - Introduction to Fishmongering – Courses for restaurant chefs on fish filleting and cooking.

How much fish & shellfish should I have on my menu?

## Menus and marketing

A great chef is the key to any successful operation. However, there is a need for some simple marketing skills to maximise the talent and creativity coming from the kitchen. Marketing is not complicated! It's simply knowing and understanding your customers' needs, and giving them what they want. Here are some recent findings.

### Menu slots

Our recent survey showed that the average menu has approximately 35% of fish and seafood dishes on the starter and main courses. However, this is rising, and many chefs are moving closer to 50% in keeping with modern eating trends. This is consistent from pubs to contract caterers to fine-dining restaurants.

### Specials boards

The daily specials board or list is becoming ever more popular, and is perfect for fresh fish. Even though the availability of fresh fish is increasingly consistent, the specials board gives you the flexibility to utilise the best and freshest catch each day, without the restrictions of a printed menu. People are eating out more than ever, and specials add more variety, offer something different for your regular customers and give a greater perception of freshness. Specials also provide chefs an opportunity to experiment and fine tune future menu slots.

### Health

Modern eating trends are healthier and lighter than ever. People are demanding lower fat and less salt. The great advantage of seafood is it fits the bill in most people's ideas of healthy eating, while still remaining a luxury food item. As more and more people decide to move away from saturated fatty foods, sales of seafood will continue to rise.

**Omega-3** – We are all aware of the need to keep our cholesterol levels down. Omega-3 is a combination of two essential fatty acids, which cannot be made in the body, but are essential in the diet. Omega-3 decreases the chance of blood vessels clogging with cholesterol, and also help make blood less 'sticky' so it then flows easier round the body, helping to reduce the risk of a heart attack. The only food source of these nutrients is through fish oils. Whitefish such as Cod and Plaice do contain them, but it's the oil-rich species such as Mackerel, Herring, Salmon and Tuna, that contain the highest levels. As well as featuring in the battle against cancer and diabetes, these oils also play a part in brain development – food for thought!



## Country of origin

Professor Michael Baker of Strathclyde University has assessed and written dozens of papers on what makes up a customer's final decision when choosing to buy something.

There is now irrefutable evidence that the 'origin' of a product can be the final influence when customers are asking themselves "shall I have this or that". When a product is linked to a country (or county) the customer will make a 'perceived' connection that can enhance the product and help tip the balance in favour of choosing "this" rather than "that".

In addition, a recent survey revealed that 73% of consumers would prefer to know the origin of the meat they are served when eating out. The need for menu transparency is clearly growing and is supported by many leading chefs, including Gordon Ramsay. The survey may have concerned meat, but consumers must surely have the same desire for transparency with all produce.

Below are examples of two ways of describing the same dish. Which one is more appealing?

**Seared Scallops in a crisp White Wine and Shallot Sauce**  
or

**Seared Cornish Scallops in a crisp Chablis and French Shallot Sauce**

The word Cornish has a tremendous resonance and an immediate association with the sea – pounding waves, rugged coastline and fishermen.

**Battered Cod**

or

**Fresh Icelandic 'deep water' Cod lightly floured and dipped in homemade Batter served with Wedges of Tunisian Lemons**

**Pan-fried Fillet of Sea Bass with Sun Dried Tomatoes**  
or

**Boneless Fillet of Farmed Greek Sea Bass pan-fried in Olive Oil with Italian Sun Dried Tomatoes, Rock Salt and crushed Pink Peppercorns**

# Cooking Guide

As a rule of thumb when pan-frying, griddling, grilling, barbecuing, baking or roasting, allow 4-5 minutes per side for a portion of fish 2cm thick and 8-10 minutes per side for 3cm thick. Add an extra 2-3 minutes per side if the fish is on the bone.

## Pan frying

Good for whole pan-ready fish, any fillets, portions and also Scallops.

## Griddling

Great for suprême portions, where you can sear the outside giving attractive bar-marks, and leave the centre more moist and succulent. Perfect for Tuna, where you want it rare in the centre. Good for whole King Prawns too, but no good for thin, flaky fillets.

## Grilling

Better suited to whole fish and flaky fillets. Great for oil-rich fish such as Mackerel and Herring, and for halved Lobsters.

## Barbecuing

Suprêmes of meaty game fish are perfect for marinating in citrus, salt, pepper and olive oil then barbecuing. Whole portion sized fish such as Snappers and Sea Bass are also great, as are whole King Prawns and Langoustines.

## Deep frying

Great for fillets, goujons, very small round fish (Whitebait) and Langoustine tails (Scampi). Fish is either coated in flour, egg and breadcrumbs, or dipped in a batter and then fried in hot oil (180°C) until golden. Lighter tempura batters are becoming more popular.

## Poaching

Whole fish and portions can be poached in a variety of liquids. Lightly salted water, fish stock, wine and olive oil are good, and Smoked Haddock is especially fine when poached in milk. Once cooked, the liquors can be used as the base of a sauce.

## Mi Cuit

A variation on poaching / deep frying is a technique known as Mi Cuit, where portions of oil-rich fish (ideally Salmon or Sea Trout) are lightly salted, then immersed and slowly semi-cooked in a flavoured olive oil or duck fat at a constant 48°C. A 60g portion needs 11 minutes, at which point it will have a unique colour and texture. The oil must be discarded after cooking, making it a costly method but the result is unique.



## Baking and roasting

Fish is easily overcooked, so you must be careful when using the oven. Whole fish and pavés are best for roasting, particularly oil-rich species. Here are four different methods of baking fish:

- Wrapping in foil – Fillets, portions and whole fish can be wrapped in foil with a little liquid to create the steam, which cooks the fish.
- En papillote – Same principal as wrapping in foil with enough liquid to create steam, but using greaseproof paper to create individual portion sized 'parcels' which are served to the table, adding a little 'theatre' as the parcels are opened and steam bursts out.
- Baking in salt – Whole fish can be placed on a tray with a thick layer of sea salt, with further sea salt coating the fish. This is sprayed with water, and creates a thick crust when cooked (a 500g fish requires 25 minutes at 200°C). Once cooked, break the crust and gently pull away from the fish without damaging the skin. The fish is then filleted and served. This brings out the flavour and is ideal with Sea Bass and Sea Breams.
- En croûte – Fillets or portions wrapped in puff pastry, usually with a sauce or filling. Can be individual or multi-portion like a Koulbiac – the traditional Russian 'Salmon Wellington' made with rice, hard-boiled eggs and mushrooms.



## Steaming

The healthiest way to cook fish, and widely used in Thai cuisine. Simply place portions or whole fish in a steamer over 2-3cm of boiling water. Whole fish can be stuffed with herbs and is also good with aromatic flavours added around the fish. Scallops are good for steaming this way. Another method is to fill the base of a large pan with seaweed, add enough water or wine to create steam (but not cover the fish), place portions or whole fish on top, cover with a lid and steam over a medium to high heat. Mussels and other molluscs are also best steamed in the same way but without the seaweed. Fish can also be steamed in a microwave, but the portions must be of even thickness.

## Boiling

Lobsters and Crabs can be boiled, but this method is not recommended for fish.

## Sauces, stocks and accompaniments

There are a wide range of classic accompaniments associated with fish and seafood cookery – Hollandaise, Bearnaise, Tartare, Parsley and Marie Rose Sauce to name but a few.

## Recipes

To download hundreds of seafood recipes visit [www.seafish.org](http://www.seafish.org)

## Want to learn to cook seafood?

Most Seafood Training Academy Partners are able to offer cooking courses to the public. For more information go to [www.seafoodacademy.org/enjoycooking.html](http://www.seafoodacademy.org/enjoycooking.html)



## Environmental responsibility

We are committed to supporting a responsible and efficient industry that balances consumer demand with the conservation of stocks for the future.



- Our research programme is helping fishermen to earn a living while steadily reducing the impact on the marine environment.
- We have brought together fishermen, environmentalists and others from across all sectors of the seafood industry in our Common Language Group. We have also created the Responsible Fishing Scheme (RFS) to recognise fishermen who catch responsibly. The scheme now boasts over 40% of the UK registered over 10 meter vessels by landed weight among its ranks.
- The UK fleet is one of the most forward-looking in Europe when it comes to environmental responsibility, with more UK fisheries accredited by the MSC than any other nation on earth. Seafish works closely with fishermen to use the latest gear technology to reduce discards and protect the environment.

For more information visit [www.seafish.org](http://www.seafish.org)



## Marine Stewardship Council (MSC)

The MSC is an independent, global, non-profit organisation whose role is to recognise, via a certification programme, well-managed fisheries and to harness consumer preference for seafood products bearing the MSC label of approval.

M&J Seafood and Brakes are working with the MSC to offer you MSC approved products such as South West Handline Mackerel, New Zealand Hoki and Alaska Salmon. [www.msc.org](http://www.msc.org)

## Credits

'The Seafood Guide' is the culmination of many year's work and has been produced with the help of some of the country's leading experts. Seafish would like to thank the following:

- |                           |   |
|---------------------------|---|
| • Professor Michael Baker | Strathclyde University                      |
| • David Mulcahy           | Chairman, The Craft Guild of Chefs          |
| • James Bristow           | Marketing Manager, M&J Seafood              |
| • Mike Berthet            | Fresh Fish Purchasing Director, M&J Seafood |
| • Matt Cheeseman          | Fresh Fish Purchasing Manager, M&J Seafood  |
| • Neil Poxon              | Fresh Fish Training Manager, M&J Seafood    |
| • Mark Ormiston           | Senior Fresh Fish Buyer, M&J Seafood        |

If you feel we have missed something important, please do not hesitate to e-mail us at [seafish@seafish.co.uk](mailto:seafish@seafish.co.uk)

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## The Seafood Training Academy

The Seafood Training Academy is a partnership between the key seafood training providers in the UK. Its remit is to promote learning in the seafood industry and, through its membership of the National Skills Academy network for food manufacturing, to act as the champion of the seafood network.

The partners within the Seafood Training Academy include:

- Billingsgate Seafood Training School, London
- Grimsby Institute of Further and Higher Education, Grimsby
- National Federation of Fish Friers Training School, Leeds
- Seafish, UK-wide
- Seafood Training Centre North East, North Shields
- Seafood North West Training Centre, Blackpool

Industry membership of the Academy includes Young's Seafood and The Seafood Company, part of the Foodvest Group.

The Seafood Training Academy has a range of seafood-specific training programmes developed and delivered by the partners and other approved providers. In addition it provides a wealth of free information via its website [www.seafoodacademy.org](http://www.seafoodacademy.org)

For further information visit the website or contact a Seafood Training Academy Partner.

**Learn something new today! [www.seafoodacademy.org](http://www.seafoodacademy.org)**



## Seafish Training & Accreditation

Whilst improving safety at sea is a key priority, Seafish also supports training in the onshore sectors of the seafood industry, including the processing, retailing and foodservice sectors.

Seafish's work in training and accreditation encompasses the development of new seafood-specific training programmes and learning materials. It also provides grant support for trainees towards the cost of their training.

Training programmes and learning materials cover a wide range of subjects including food safety and health & safety courses, many of which lead to nationally recognised qualifications. Some courses are available in a variety of languages and formats (including DVDs covering food safety, health & safety, fish filleting and fish frying skills).

Seafish also runs a series of accreditation schemes, quality schemes and promotional activities to recognise excellence and best practice across the UK seafood industry. These include the Responsible Fishing Scheme (RFS) and the Fish Friers Quality Award. For processors and wholesalers, Seafish provides support to businesses seeking BRC (British Retail Consortium) or SALSA (Safe And Local Supplier Approval) certification.

Seafish is a committed partner in the Seafood Training Academy. For more information or advice and guidance on training and accreditation, email [training@seafish.co.uk](mailto:training@seafish.co.uk), visit the website [www.seafish.org](http://www.seafish.org) or phone 01472 252302.



Students attending an Introduction to Fish Quality Assessment training course at Seafish.





The training and accreditation team at Seafish works with the entire seafood industry to focus on improving quality, safety, sustainability and efficiency in the industry through training and standards based accreditation schemes.

The Seafood Training Academy is recognised by the National Skills Academy for Food Manufacturing as the Champion for the Seafood Network.

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