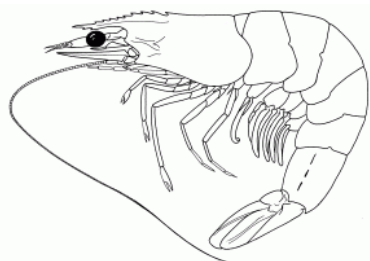
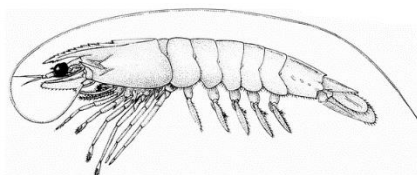




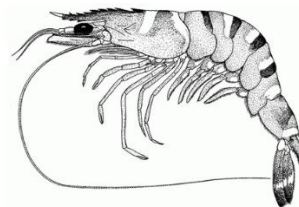
SHRIMP *PENAEUS*



Penaeus vannamei (Whiteleg shrimp)



Penaeus brasiliensis (King prawn)



Penaeus monodon (Tiger prawn)

Source: Information system on commercial designations for [whiteleg shrimp](#), [king prawn](#) and [tiger prawn](#)

BIOLOGY AND HABITAT

- **Species description** (Read more [\(1\)](#) [\(2\)](#) [\(3\)](#))

The appellation shrimp covers a wide range of decapod crustaceans. The main commercial species belong to the Penaeidae family.

The main species caught are whiteleg shrimp, giant tiger prawn, akiami paste shrimp, Southern rough shrimp, fleshy prawn, and banana prawn. Together they represent 30% of the total production of wild-caught and farmed shrimps (source: FAO, 2017).

- **Geographical distribution and habitat** (Read more [\(1\)](#) [\(2\)](#) [\(3\)](#))

Even if most shrimps are marine, they can also be found in freshwaters. Shrimps are widespread, they can be found in all marine areas, from tropics to polar regions.

RESOURCE, EXPLOITATION AND MANAGEMENT

- **Stocks and resource status/conservation measures** (Read more [\(1\)](#) [\(2\)](#) [\(3\)](#))

A TAC for *Penaeus* shrimps in French Guiana waters is established.

- **Production methods and fishing gears** (Read more [\(1\)](#) [\(2\)](#) [\(3\)](#))

Shrimps are either caught in the wild or farmed. The main fishing gears used are otter trawls, bottom pair trawl, gillnets and similar nets, pots and traps and seines.

Shrimp *Penaeus*

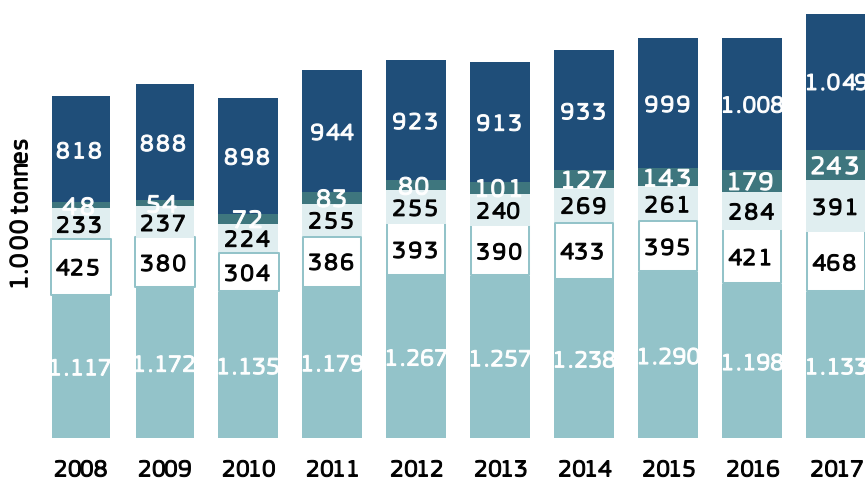


CATCHES

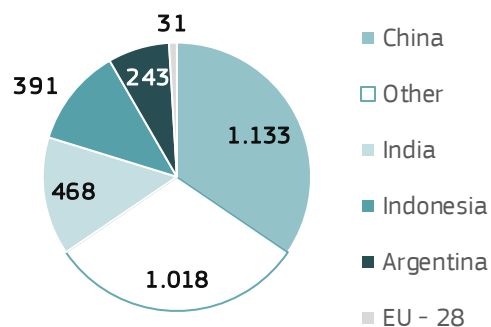
- Global catches of shrimps, excluding coldwater shrimps constitute the major share of global shrimp catches. Species of the genus *Penaeus* accounted for almost third of global shrimp production in 2017. The top three producing countries (China, India and Indonesia) accounted for 60% of the world catches in 2017.

Evolution of world catches

■ Other ■ Argentina ■ Indonesia ■ India ■ China



Catches (2017, 1.000 tonnes)

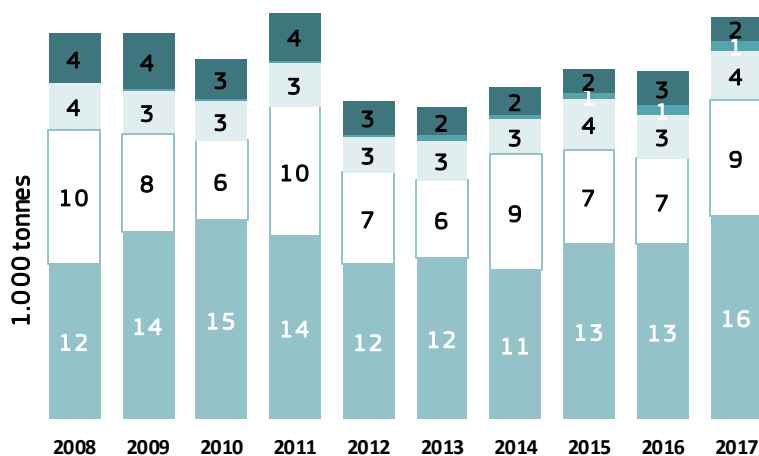


Source: FAO

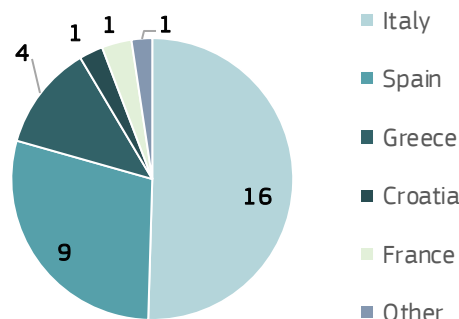
Evolution of EU catches

- The EU provided **less than 1%** of the global shrimp catches, excluding coldwater shrimps, in 2017. The catch is mainly composed of deep-water rose shrimp (*Parapenaeus longirostris*) with 57% of EU catches. Other important species are giant red shrimp (*Aristaeomorpha foliacea*), Caramote prawn (*Penaeus kerathurus*) and blue and red shrimp (*Aristeus antennatus*). The main EU producers are Italy, Spain and Greece.

■ Other ■ Croatia ■ Greece ■ Spain ■ Italy



Catches (2017, 1.000 tonnes)



Source: FAO

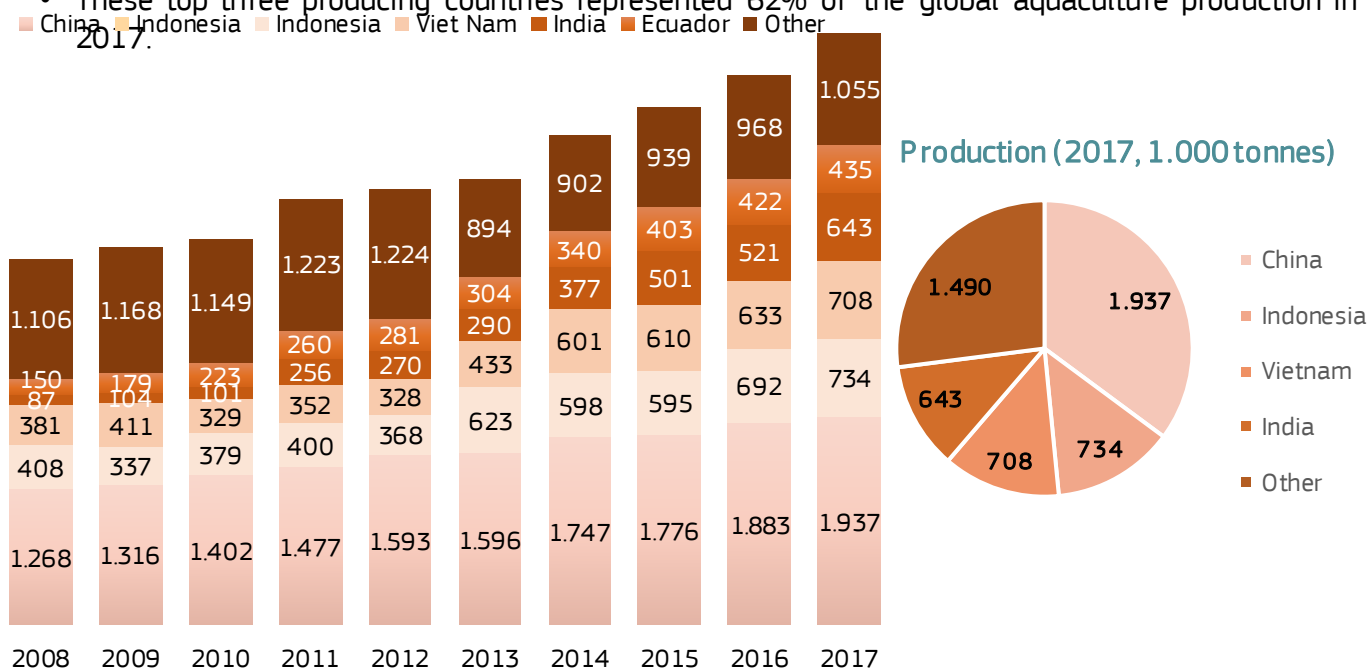


Shrimp Penaeus

AQUACULTURE PRODUCTION

Evolution of world production

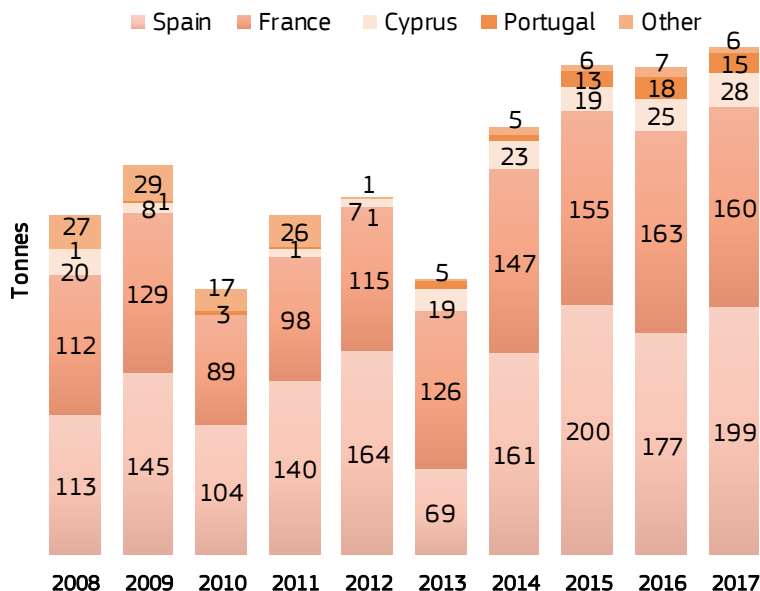
- The world aquaculture of shrimps, excluding coldwater shrimps, has significantly increased (+62%) between 2008 and 2017, as a consequence of the important development of shrimp production in the main producing countries: China (+53%), Indonesia (+80%) and Vietnam (+86%).
- These top three producing countries represented 62% of the global aquaculture production in 2017.



Source: FAO

Evolution of EU production

- EU aquaculture production of shrimps excluding coldwater shrimps is quite limited with 408 tonnes in 2017 (less than 1% of the global aquaculture volume of the concerned shrimp species).
- The production has increased by 50% from 2008 to 2017, driven by the increase in Spain (+76%) and France (+43%).



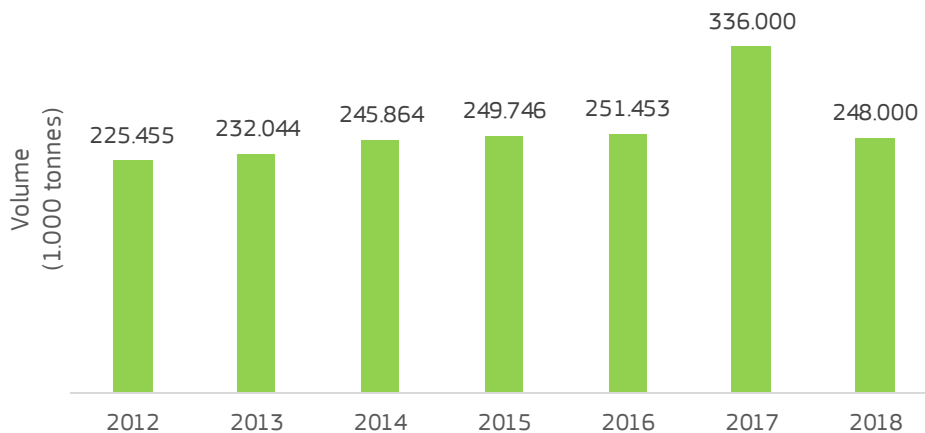
Shrimp *Penaeus*



PROCESSING

- A significant activity of shrimp cooking exists, in particular in France and Spain.
- 1 [PRODCOM](#) codes partly refer to shrimps:
 - 10203400 : Prepared or preserved crustaceans, molluscs and other aquatic invertebrates and seaweed, not dried, salted or in brine.

EU production of prepared crustaceans, molluscs and other aquatic invertebrates and seaweed



France cooked 50.000 tonnes of *Penaeus* shrimps in 2015 (source: [Cooked shrimp in France, Price structure in the supply chain, 2017, EUMOFA](#))

Source: EUROSTAT/PRODCOM

Shrimp *Penaeus*

TRADE

- Combined nomenclature: Read more for [whiteleg shrim](#), [king prawn](#), [tiger prawn](#)

EU trade of shrimp products, excluding cold-water shrimps (except for prepared and preserved products where coldwater shrimps are included) (2018, tonnes)

CN code	Product	EU imports		EU exports	
		Intra-EU	Extra-EU	Intra-EU	Extra-EU
0306179 2	Shrimps of the genus <i>Penaeus</i> , frozen	56.359	287.244	81.236	2.645
0306179 3	Shrimps of the family Pandalidae, other than of the genus <i>Pandalus</i> , frozen	1.444	431	1.436	3.192
0306179 9	Shrimps and prawns, other (other than Pandalidae, <i>Crangon</i> , <i>Parapenaeus longirostris</i> and <i>Penaeus</i>), frozen	40.942	142.941	44.902	3.505
0306361 0	Shrimps of the family Pandalidae, other than of the genus <i>Pandalus</i> , live, fresh or chilled	646	1	132	17
0306369 0	Shrimps and prawns, other than Pandalidae and <i>Crangon</i> , live, fresh or chilled	2.419	143	5.879	143
0306953 0	Shrimps of the family Pandalidae, other than of the genus <i>Pandalus</i> , cooked by steaming or by boiling in water, dried, salted, smoked or in brine	672	4	166	-
0306959 0	Shrimps and prawns, other (other than Pandalidae and <i>Crangon</i>), cooked by steaming or by boiling in water, dried, salted, smoked or in brine	5.078	150	838	32
1605211 0	Shrimps and prawns, prepared or preserved, not in airtight containers, in immediate packings of a net content not exceeding 2 kg	22.085	19.339	22.567	1.266
1605219 0	Shrimps and prawns, prepared or preserved, not in airtight containers, other	11.687	46.116	18.774	1.275
1605290 0	Shrimps and prawns, prepared or preserved, in airtight containers	27.503	47.780	33.722	4.090

Source: EUROSTAT-COMEXT

Shrimp *Penaeus*



TRADE

EU trade of other shrimps (tonnes - 2018)

- **Main extra-EU destinations are:**

- for frozen shrimps of the genus *Penaeus* (CN 03061792): Switzerland (421 tonnes) and Vietnam (417 tonnes);
- for frozen shrimps of the family Pandalidae (CN 03061793): Iceland (2.536 tonnes), China (564 tonnes) and Norway (41 tonnes);
- for other types of frozen shrimps and prawns (CN 03061799): China (1.558 tonnes), Morocco (345 tonnes), and Switzerland (184 tonnes);
- for prepared or preserved shrimps and prawns in airtight containers (CN 16052900): Norway (1.419 tonnes), Switzerland (837 tonnes) and Vietnam (475 tonnes).

- **Main extra-EU suppliers are:**

- for frozen shrimps of the genus *Penaeus* (CN 03061792): Ecuador (102.065 tonnes), Vietnam (42.007 tonnes) and India (41.894 tonnes);
- for other types of frozen shrimps and prawns (CN 03061799): India (23.360 tonnes), China (17.473 tonnes) and Bangladesh (4.144 tonnes);
- for prepared or preserved shrimps and prawns (CN 16052190): Vietnam (12.620 tonnes), Canada (10.887) and Iceland (5.180 tonnes);
- for prepared or preserved shrimps and prawns in airtight containers (CN 16052900): Vietnam (9.535 tonnes), Morocco (8.964 tonnes) and Norway (3.392 tonnes).

Source: EUROSTAT-COMEXT

Shrimp *Penaeus*

PRICES ALONG THE SUPPLY CHAIN (EUR/kg)

First-sale (fresh)

First-sale prices are provided for Italy, for the three main species landed.

	2012	2013	2014	2015	2016	2017	2018	Source
Deep-water rose shrimp	6,41	5,29	5,36	4,98	4,42	3,92	3,97	EUMOFA
Caramote prawn	15,29	14,85	15,21	14,46	15,29	12,24	11,48	EUMOFA
Giant red shrimp	10,63	11,84	12,01	14,13	13,91	13,01	13,21	EUMOFA

Retail/consumption (cooked, chilled)

Retail prices refer to France, which is the largest market in the EU for chilled cooked shrimps.

	2013	2014	2015	2016	2017	2018	Source
France	12,5	13,5	13,1	13,9	14,6	14,1	FranceAgriMer

Import (frozen)

Import prices are presented for Spain, France and Italy, major importers of frozen shrimps in the EU. Species taken into account are warmwater shrimps and *miscellaneous shrimps*, which are the most important shrimp species traded.

	2010	2011	2012	2013	2014	2015	2016	2017	2018	Source
France (miscellaneous shrimps)	5,33	5,47	5,37	5,43	6,32	6,95	6,77	6,74	7,01	EUMOFA
France (warmwater shrimps)	5,35	5,83	5,79	6,54	7,43	7,19	7,53	7,85	7,10	EUMOFA
Italy (miscellaneous shrimps)	5,43	5,15	5,43	5,84	6,59	6,84	6,50	6,67	6,96	EUMOFA
Italy (warmwater shrimps)	5,12	5,24	5,35	6,08	6,93	6,65	7,16	7,19	6,27	EUMOFA
Spain (miscellaneous shrimps)	5,05	4,81	4,99	5,11	5,45	5,99	6,01	6,39	6,57	EUMOFA
Spain (warmwater shrimps)	4,98	4,77	4,87	5,84	6,43	6,40	6,68	6,53	5,89	EUMOFA

Export (frozen)

Export prices refer to Spain, Belgium and Netherlands, major EU exporters. Species considered are warmwater shrimps and *miscellaneous shrimps*, which are the most important shrimp species traded.

	2010	2011	2012	2013	2014	2015	2016	2017	2018	Source
Belgium (miscellaneous shrimps)	5,81	6,26	6,24	5,55	6,97	8,21	7,68	7,32	6,95	EUMOFA
Belgium (warmwater shrimps)	5,84	6,29	6,44	7,49	8,96	8,70	9,13	9,81	8,87	EUMOFA
Netherlands (miscellaneous shrimps)	5,29	4,19	4,52	5,14	5,33	6,69	7,07	7,78	8,30	EUMOFA
Netherlands (warmwater shrimps)	6,95	7,90	7,73	8,74	9,33	9,23	9,32	9,04	8,67	EUMOFA
Spain (miscellaneous shrimps)	6,04	5,59	6,48	7,15	7,98	8,04	7,81	8,10	8,13	EUMOFA
Spain (warmwater shrimps)	6,00	5,06	5,75	6,72	7,98	7,79	7,61	7,98	7,52	EUMOFA

Shrimp *Penaeus*

MARKETING ASPECTS

- Commercial designations in all EU official languages (Read more [\(1\)](#) [\(2\)](#) [\(3\)](#))

CONSUMPTION

- Apparent consumption per capita in 2017 of miscellaneous shrimps: **0,71 kg** live weight equivalent and of deep-water rose shrimp: **0,05 kg** and warmwater shrimps: **0,68 kg** live weight equivalent (source: [EUMOFA supply balance](#), EUMOFA)
- Nutritional value (Shrimps, cooked meat, values per 100 g – source : NUTRAQUA/AQUIMER)

Nutritional value	King prawn - <i>Penaeus brasiliensis</i>	Tiger prawn - <i>Penaeus monodon</i>	Whiteleg shrimp - <i>Penaeus vannamei</i>
kilo calories (kcal)	113	98	94
Kilojoule (kJ)	480	418	401
Water (g)	71,2	73,5	73,9
Ashes (g)	1,3	2,3	2,9
Proteins (g)	26,6	23,4	22,6
Carbohydrates (g)	0,2	0,4	0,3
Lipids (g)	0,6	0,4	0,3
Cholesterol (mv)	237,1	204,5	181,1
Omega 6 (mg)	76	122	119
Omega 3 (mg)	197	145	177
EPA (mg)	103	50	86
DHA (mg)	68	84	77