

dataMares
PRESENTS

THE INDUSTRIAL AND ARTISANAL FISHING FLEETS



INSTRUCTIONS:

We recommend looking for the interactive buttons and using them to explore the contents of this document.

START



THE INDUSTRIAL AND ARTISANAL FISHING FLEETS

Fishing in Mexico is carried out with industrial and artisanal vessels. Between these two kinds of boats there are important differences in equipment, fishing gear, and target species, which results in different catch volumes and economic gains.

i Source: data on fisheries production from the National Commission of Aquaculture and Fisheries (CONAPESCA) for the period 2006-2014. Does not include data on lagoons and rivers. Statistical yearbook 2006-2013. ROUND FIGURES AND ANNUAL AVERAGES. T = TONS

NATIONAL FISHERIES LANDINGS



1.2
million tons



11 mil
billion pesos



11,500
km of coastline

ARTISANAL FLEET



445,000 t
in fisheries production



8 billion
in economic value



51 groups
of species



88,000
vessels

INDUSTRIAL FLEET



818,000 t
in fisheries production



3 billion
in economic value



9 groups
of species total



3,000
vessels

23
groups

90%
of total catch

5 HIGHEST
CATCH
VOLUMES

14 TIMES
the number of species than
the industrial fleet



2.5 TIMES
the economic worth generated by
the industrial fisheries

3
groups

90%
of total catch

3 HIGHEST
CATCH
VOLUMES

2 TIMES
the volume of the
artisanal fisheries



28 TIMES
fewer vessels than
artisanal fisheries

TO LEARN MORE

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17%



Other

11%



Squid

8%



Shrimp

6%



Crab

6%



Octopus

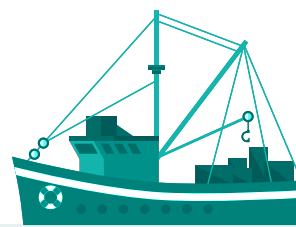
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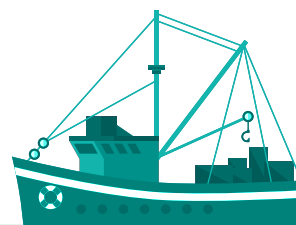
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3 HIGHEST
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VOLUMES

2 TIMES
the volume of the
artisanal fisheries



65%

Sardine

14%

Tuna

12%

Anchovy

28 TIMES
fewer vessels than
artisanal fisheries

TO LEARN MORE



ARTISANAL FISHING

Fishing carried out in bays, lagoons or estuarine systems in the sea, up to three nautical miles off the coast (5.6 km), in most cases with small vessels (CONAPESCA Statistical Yearbook).



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CONTRIBUTIONS



445,000 t
fisheries production



8 billion pesos
economic value

TERRITORIAL SEA:

The sea that extends to a distance of twelve nautical miles (22.2km) from the baseline from which its width is measured.

Territorial sea

Exclusive economic zone



THE PANGAS

Artisanal fishing boats, called "pangas", have an average length of 10 m and an outboard motor. Sometimes coolers are brought on board to conserve the product, depending on the fishery (if the species is of high value, for example, octopus or abalone), but it is not common nor widespread.

Storage capacity:
≥ 3 t



Days of autonomy:
2-3



Crew:
2-3 per boat



Fishing equipment:
≥ 18



Target species:
51 groups (aprox. 665 species)



10 m in length

The outboard motors consist of a two or four-stroke engine in the upper part of the structure, a gear system and a propulsion system that is arranged in the submerged inferior part of the boat.



The material of which the main hull is made of can vary from woods with protective covers to fiberglass, thick polymers or metal alloys.

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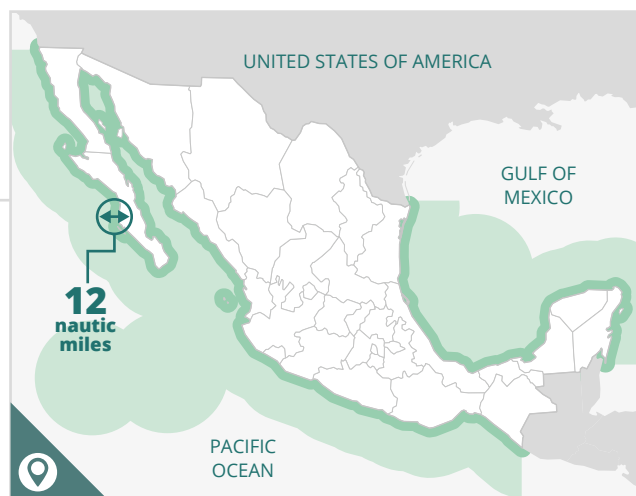
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Rudder


Propeller

There is little space in the interior, where basic fishing equipment, coolers, gasoline and batteries for the motor are kept.

TO LEARN MORE


INDUSTRIAL FISHING

Type of fishing carried out by large ships in depths and distances off the coast even exceeding the limits of the territorial sea and the Exclusive Economic Zone.




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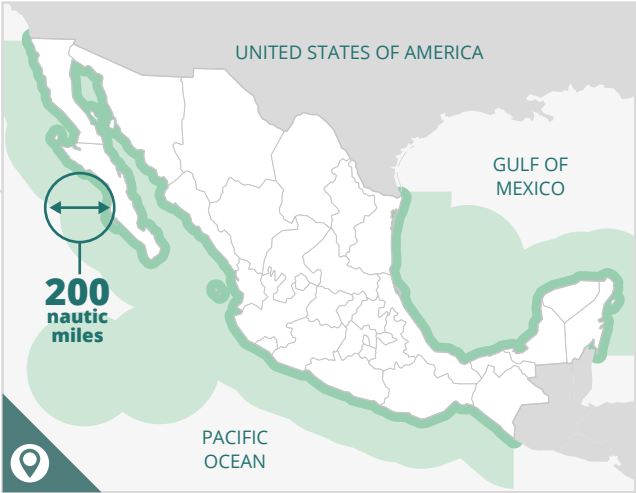
3 billion pesos
 economic value

EXCLUSIVE ECONOMIC ZONE

It is the maritime strip that follows the territorial sea and that has an extension of 200 nautical miles counted from the baseline of the coast of a given state (equivalent to 370.4 km).


Territorial sea


Exclusive economic zone





Industrial ships


The industrial fleet uses a variety of boats for the tuna, shrimp, sardine and finfish fisheries. Its dimensions and operation capabilities are increased, whereby their storage capacity and landings grow considerably.

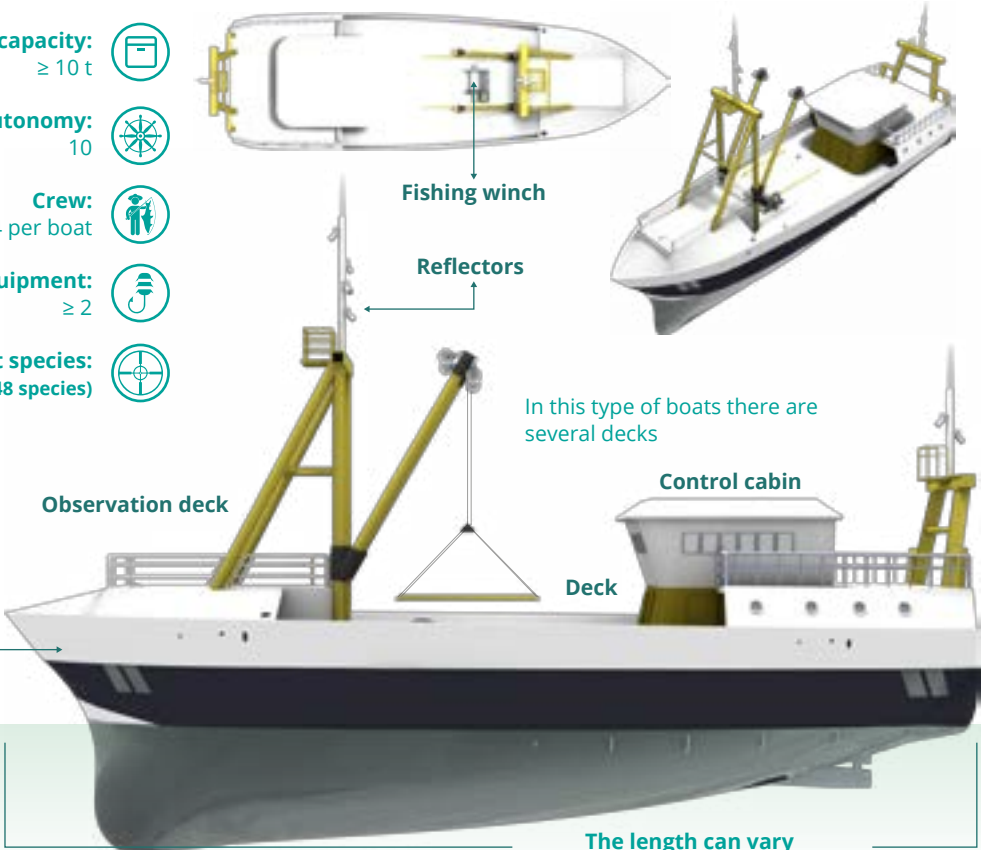
Storage capacity:  ≥ 10 t

Days of autonomy:  10

Crew:  10-24 per boat

Fishing equipment:  ≥ 2

Target species:  9 groups (aprox. 48 species)



Fishing winch

Reflectors

Control cabin

Deck

Observation deck

Main hull

In this type of boats there are several decks

The length can vary depending on the boat (between 30 to > 100m)

Four types of general industrial fleet vessels, generally related to these fisheries:

- 

Atunero
- 

Cameronero
- 


Sardinero
- 

Escamero

TO LEARN MORE


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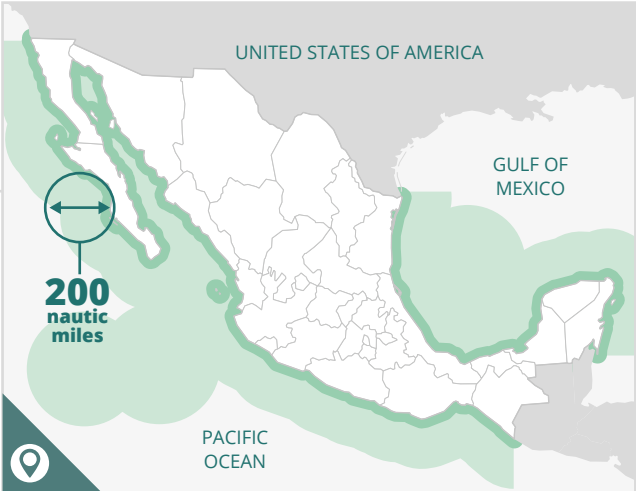
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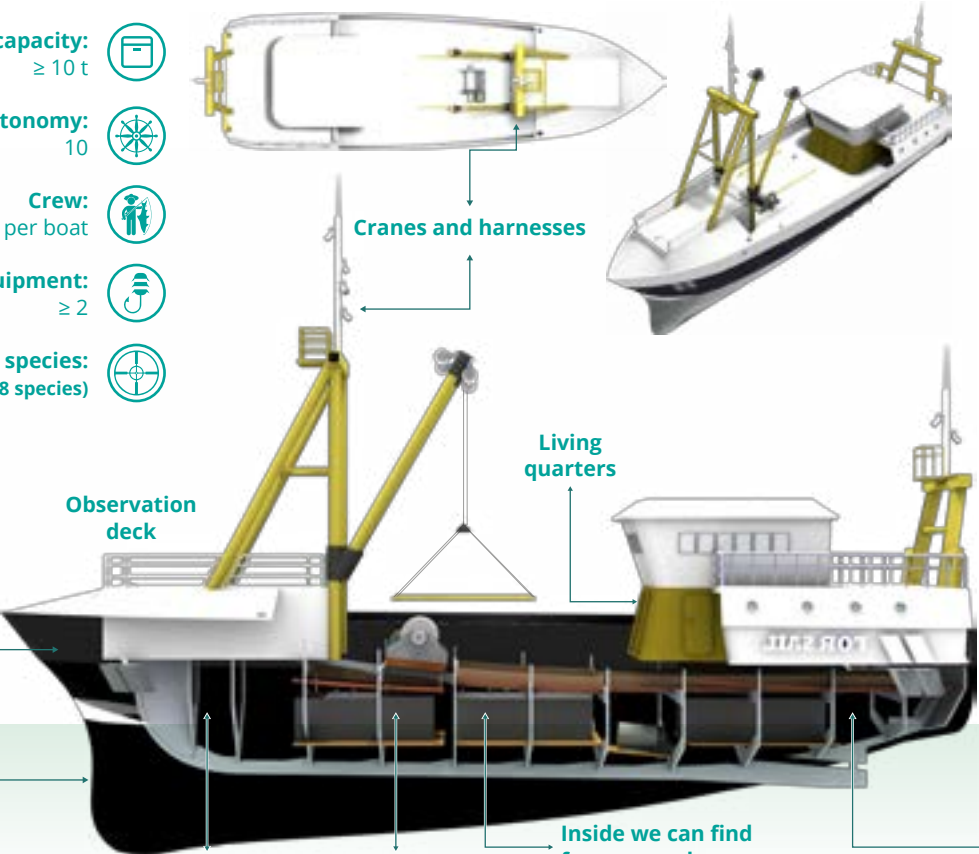
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Cranes and harnesses

Living quarters

Observation deck

Main hull

Submerged hull area


Fresh water tank

Central soldering room


Inside we can find freezers and storage rooms

Engine room and main engine


Four types of general industrial fleet vessels, generally related to these fisheries:




Tuna



Shrimp



Sardine



Finfish

TO LEARN MORE



Photo credit:

Enrique Alvarado, Andrés M. Estrada, Alejandro Melgoza

Large ships anchored at the pier of Puerto Peñasco, Sonora. As of 2017, this community is the only one in the Upper Gulf of California that can continue fishing, since it does not affect the vaquita marina.



Mechanics check the large ship at the pier in Puerto Peñasco, Sonora.



The crew must make sure it is in perfect condition as they prepare to be at sea for at least 15 days of fishing.



Parked pangas in the fishing cooperative property in Puerto López Mateos, BCS. Every day fishermen hook their pangas to a van and drive them to the shore.



An artisanal fisherman from Puerto Lopez Mateos, BCS, checks the engine of his panga. This occurs at dawn before spending the day at sea.



Father and son in the port of San Carlos, BCS, prepare for the trip. The image shows this small crew carrying the fuel they will occupy for the trip.



Observe the contrast in sizes between an artisanal craft and a large industrial, sardine ship in the distance, in the port of Guaymas, Sonora.



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