

FOOD SPECIES

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MAJOR FOOD SPECIES

- Oceans provide food and also employment.
- Finfish constitute around 84 % of the total world catch.
- Most of the world's food is grown on land and food from the sea represents only about 1 % of all the food eaten.
- Finfish provides around 16 % of the animal protein consumed by people around the world.
- The world's populations reached 4 billion in 1975, 5 billion in 1987 and 6 billion in 1999. It may reach 10 billion by 2050.

FOOD FROM THE SEA

- The population will grow much faster in developing countries.
- Protein deficiency is already a major cause of disease and death in these countries.
- Some people look hopefully to the ocean as a source of food for the earth's growing population.
- Marine fisheries also provide much-needed employment in developing countries.

FOOD FROM THE SEA

- **The global fish production is to tune of 154 million tones (FAO, 2012).**
- **Japanese averagely eats 72.1 kg of fish a year, Americans consume an average of 21.3 kg per person a year. Indians consume an average of 9.0 kg per person a year.**
- **Seafood consumption has been steadily increasing in the United States, Canada and other developed countries as consumers look for healthy, low – fat sources of protein.**

MAJOR FOOD SPECIES

- ❖ The largest catches in the world are Clupeoid fishes. Include anchovies, sardines, menhaden's and shads.
- ❖ Herrings, anchovies and sardines are eaten fresh, canned or pickled.
- ❖ Fish protein concentrate (FPC) or fish flour, a powder used as a protein supplement for human consumption.
- ❖ Most of the clupeoid catch is ground into fish meal is used in feed for poultry.

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- ❖ The fish are also pressed to obtain fish oil.
- ❖ Cods and related fishes – the Pollock, haddock, hakes and whiting a source of inexpensive protein in many parts of the world like Mediterranean, Caribbean.
- ❖ Jacks, mullets, rockfishes (perches) and mackerals, are also important.
- ❖ Canned mackerel used in Japan, South America.
- ❖ Flatfishes, flounders, halibuts are important catches in U.S. Canada etc.,
- ❖ Tuna is a most important open ocean fishery. Skip jack, yellow fin, albacore, big eye and blue fin tunas are command high prices in world markets.

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- ❖ Molluscs are the second most valuable group of marine food species.
- ❖ Squids, cuttlefishes and octopuses are popular in Eastern and Mediterranean's countries.
- ❖ Other important foods mollusks are Clams, Oysters, mussels, scallops and abalones.
- ❖ Crustaceans are prized as food world wide. Many types of shrimps and lobsters all of which high price. Crabs are also harvested and eaten in worldwide.
- Seaweeds are eaten in many countries.

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- The gonads of sea urchins are eaten in Japan known as Uni, it is eaten raw.
- Some species of sea cucumber are common seafood called beche-de-mer, they are dried, boiled, smoked or eaten raw.
- Jellyfishes in Orient, goose neck barnacles in Spain and polychaete worms in South Pacific.
- Sea turtles eggs are eaten, seals and whales are also eaten in some places.
- Krills are eaten by west Indies.

FOOD SPECIES

Cultivable cold water fishes:

Snow Trouts: *Schizothoracichthyes* &
Schizothorax sp.



Mahseers: *Tor* sp.



COMMON CULTIVABLE SPECIES

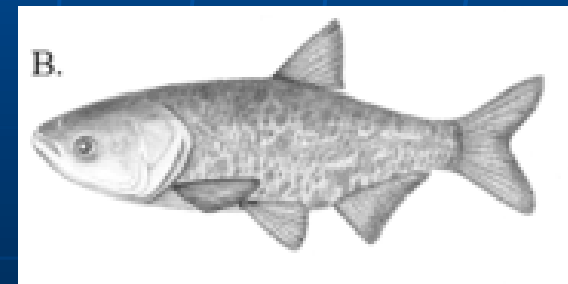
Common carp: *Cyprinus* sp.



Grass carp: *Ctenopharyngodon* sp.



The white big head:
Hypophthalmichthys sp.



COMMON CULTIVABLE SPECIES

Catla catla



Labeo rohita



Cirrhinus mrigala



COMMON CULTIVABLE SPECIES

Minor carps:
Labeo calbas



L.fimbriatus



L.bata.



COMMON CULTIVABLE SPECIES

Cat fishes

Saccobranchus (= *Heteropneustes*) *fossilis*.



Clarias batraciens.



COMMON CULTIVABLE SPECIES

Tilapia mossambica



Salmon,
Oncorhynchus sp.-
Europe, America.



African cat fish
(*Clarias* sp.)-Africa.



COMMON CULTIVABLE SPECIES

Sheat fish or wells
(*Slurus glanis*)

S. E. Europe.



Asian cat fish (*Pangasius sutchi*)

Thailand & Kampuchia.



COMMON CULTIVABLE SPECIES

Eels (*Anguilla* sp.)

Western Europe & Japan.



Mulletts (*Mugil* sp.)

Italy, N.China, Java, Hawaii.



COMMON CULTIVABLE SPECIES

Milk fish, *Chanos sp.*
Indonesia, Philippines
Taiwan & India



Seabass (*Dicentraarchus labrax*)
Europe.



Lates calcarifer,
Iron, Australia, India.



COMMON CULTIVABLE SPECIES

Sea beams, *Sparus*
sp.



Pagrus sp.
Mediterranean &
blacksea,
E. Atlantic, Japan,
E. China Sea, &
Southeast Asia



COMMON CULTIVABLE SPECIES

Sturgeous (*Acpensar* sp.)—
Russion & Europe.



Murrels (*Channa* sp.)
South & Southeast Asia.



COMMON CULTIVABLE SPECIES

Gouramis(*Osphronemus* sp.)



Groupers (*Epinephelus* sp.)-
Malaysia, Singapore &
Europe. Hong Kong &
Kuwait



COMMON CULTIVABLE SPECIES

Rabbit fishes (*Siganus* sp.)-
Philippines, Mauritius,
Malaysia, Singapore,
Saudi Arabia, Israel &
Tanzania.



Turbot flat fish
(*Scophthalmus maximus*)-
UK, France, Spain etc.

