

Unit 3 : Water Management

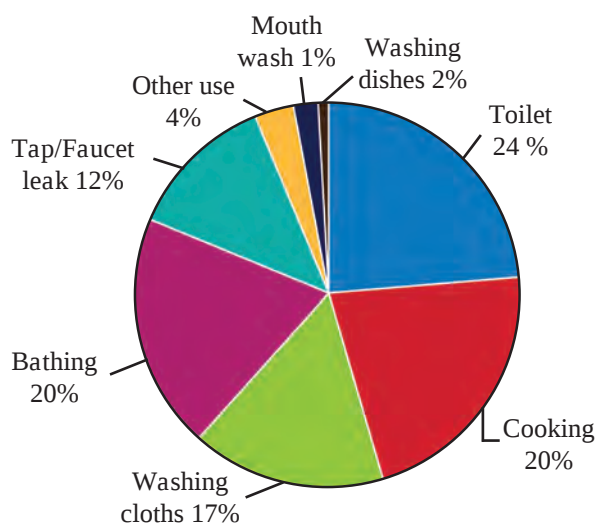
Chapter 2 : Our water consumption

Consumption of water

The water available on the Earth is used for many purposes. In this chapter we will learn more about water consumption.

Domestic water consumption :

In addition to drinking water, humans need water for cooking, bathing, washing clothes, washing cars, toilets use and cleaning, etc. The role of water is important from such basic human needs to industrial processes.



3.2.1 Domestic water consumption ratio

Water use for agricultural irrigation and industry :

Considering the factor of water in rural areas, the farmer is the center point of that factor. Crops are irrigated through the irrigation system. Economic development also depends on the availability of that water. Therefore, Water Use Organizations have been formed and water distribution has been done with the idea that water for agriculture should be properly managed, it should be managed and all farmers should get justice. Every crop needs water differently. Modern irrigation is done as per crop requirement



3.2.2 Water use for agriculture

according to the principle “water is needed for the crop, not for the whole land.” There is a need to adopt a technological approach. Water is widely used for agro-based industries such as sugar factories, fruit processing and non-agricultural industries such as dams, roads, colonies, various factories etc.

Power Generation :

Many dams in the country generate electricity. The water from the dam is used for



3.2.3 Koyna dam

hydroelectric power generation. The water flow in the dam is released rapidly from the height, so the generator rotates and electricity is generated. In Maharashtra there are hydroelectric power generation projects like Koyna, Pophali, Bhira, Bhivapuri, Khopoli, Warna, Vaitarna etc.

Fishing and fisheries :

Fishing is practiced extensively in seas, creeks, dams, rivers, lakes and various reservoirs.



3.2.4 Fishing and Fisheries

The business generates huge financial turnover on the coast as well as in many port areas. In Maharashtra, fishing is done by producing fish seeds/eggs in small and big dams. Also, as a supplementary business to agriculture, fish farming is practiced in farm puddle/lake/pond and small ponds. It is generating huge economic output.

Shipping :

Today there are many options available for transportation. In this the cheapest option is shipping. There are some major shipping ports in India. E.g. Kandla, Mumbai, Cochin,



3.2.5 Shipping launch

Visakhapatnam, Chennai etc. The North Atlantic, Suez Canal, Panama Canal are the major waterways of the world.

Tourism business :

Tourism in India is important for the country's economy. So it is important for the tourist to have other facilities including water in that place.



3.2.6 Tourist places

Sanitation, all amenities, attractive gardens, swimming pools, accommodation and, most importantly, abundance of water are important tourist destination. Musical fountains of water can be seen in tourist places. In Maharashtra, Aurangabad - Jayakwadi project, Dnyaneshwar Udyan in Paithan, Anand Sagar in Shegaon and in some other places artificial waterfalls a breathtaking view are developed. Many migratory birds from other countries come to the reservoir. E.g. Bharatpur, (Rajasthan), Ujani Dam - Reservoir (Maharashtra)

Water for environmental protection :

All living organisms need water to drink, as well as crops, forests and various plants also need water. Soil and rock formations are also affected by water. After all, there is no life without water. Water alone maintains the balance of all the organic-inorganic elements in nature and water helps to protect the food chains in nature including plants, animals, birds, insects.



3.2.7 Environmental imbalance

Try this:

1. Make a table of how many liters of water normally consumes per day by a person.
2. Make a list of differences between use of water in urban and rural areas.

Exercise

1. State the total types of water consumption.
2. How do we use water for domestic purposes?
3. How water is used for agriculture?
4. Which area needs maximum water?
5. Explain the relationship between environmental protection and water.
6. State the commercial uses of water.