

# WATER-FACTS



## LEARN MORE ABOUT

- WATER AND HEALTH
- WATER AND FOOD
- WATER IN BRUNEI



Water is essential for life.

Department of Water Services  
Public Works Department  
Ministry of Development

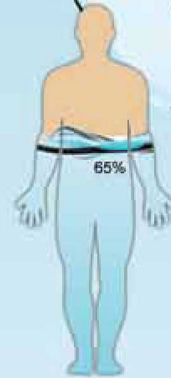
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## WATER

- provides all living things energy and food.
- helps to grow crops and livestock.
- keeps the environment clean.
- is essential for health.



### WATER AND HEALTH

- The human body is approximately 65% water and it assists physical functions of our body.
- A person must consume at least 2 litres of water daily to live healthy.
- Your drinking water contains Fluoride which helps prevent dental cavities.
- Clean water is necessary for an active and healthy life.
- Drinking 'dirty' or unclean water can cause serious health damage.

### Minerals in the water are essential for health



#### Calcium

*important for bone health*

#### Magnesium

*important for cardiovascular health*

#### Fluoride

*effective in preventing tooth decay*

#### Sodium

*an important extracellular electrolyte for the body*

#### Chloride & Bicarbonates

*helps to balance the digestive system*

#### Iron

*helps to deliver oxygen to the blood system*

### WATER AND FOOD

The production of all food – from crops, livestock, fisheries, aquaculture and forests require water. Lack of water causes major malnutrition and famine.

**3-5,000** litres of water needed to grow one kilo of Rice

**35** litres of water is consumed to process one can of Fruits or Vegetables

**15,000** litres of water for one kilogram of Beef

**25,700** litres of water required to provide a day's food for a family of four



99.9% of Brunei's population receives treated piped water at their houses.

Department of Water Services of Public Works Department is responsible for the supply of clean water to the public.

There are eight water treatment plants located throughout the country.

Water is tested every two hours at the water treatment plants to ensure it is safe to be consumed.

Water is processed and treated to comply with the Drinking Water Guidelines of World Health Organisation.

Treated water is chlorinated to kill bacteria and fluoridated to prevent tooth decay.

Water pipe network in Brunei spans a total of 2,920km. That is 5 times the length of Brunei's coastline.

Total water production is 458,000 m<sup>3</sup> a day.

Water usage per day per person in Brunei is the HIGHEST in the ASEAN region i.e. 420 litre per day equivalent to 280 big bottles of mineral water.

Water tariff for domestic use in Brunei is the CHEAPEST in the ASEAN region - the cost of using the first 54.54m<sup>3</sup> is \$0.11 for every cubic metres.

In Brunei, 77% of water resources is for domestic and commercial use, 18% for oil and gas industry and 5% for irrigation.

There are more than 83,000 water accounts nation wide.

- Brunei-Muara district nearly 60,000
- Tutong district > 8,000
- Belait district > 12,000
- Temburong district > 2,000.

Since 2007, spot billing has been used where meter readers use handheld device to key in meter readings and print water bills using a portable printer.

Water testings at the main water laboratory was accredited and still is with ISO 17025 since 2007.

Laboratory water testing methods are in accordance to Standard Method for the Examination of Water and Wastewater.

A faucet that drips just once per second wastes

**110,000** litres of water annually.



*Please Use Water Wisely*