

How do plastics affect us? Ko te pāpātanga o ngā kirihou ki a tātou

Our health and environments are affected by plastics

Ngā kirihou me taiao How plastics affect the environment?

Plastic waste and debris can affect the mauri, or life force, of the environment including cultural health and wellbeing. Plastic pollution may damage habitats and reduce biodiversity through introduction of new pests and diseases.

Corals snagged with plastic debris are much more likely to be diseased (89%) than corals without any plastic (4%).



Ngā kīrehe What happens when wildlife encounter plastics?

Wildlife can get caught in discarded plastics and often die if they cannot escape. Animals can mistake plastics for food, often resulting in injury or death.

Ka raru ngā kararehe taketake Are native animals affected?

In Aotearoa, plastics have been found in sharks, seals, seabirds, turtles, fish and mussels.



Hauora How does plastic affect human health?

- Benefits Plastics are important in protecting food and beverages from damage and microbial contamination. In healthcare, plastics provide sterile equipment and hypoallergenic medical devices.
- Potential harm Plastics, microplastics and chemicals associated with plastics contaminate our food, water, and air but we don't yet know how harmful this is.

Take, Kiakaha Action temahi

Look at the diagram that shows how plastics affect human and animal health. What concerns you most? Can you think of ways to reduce plastics causing harm?

TOITŪ TE MARAE A TANE-MAHUTA, TOITŪ TE MARAE A TANGAROA, TOITŪ TE TANGATA

If the land is well and the sea is well, the people will thrive

How plastics affect human and animal health

Plastic pollution is not just an eyesore, but a problem that causes extensive harm to our environment and to the health and wellbeing of people and animals.

Animal health

Entanglement

Plastic pollution can cause harm to animals through entanglement. Many affected species are already rare and endangered.

Inhibited movement can lead to:

Difficulty eating

Inhibited growth

Reproduction issues

Difficulty getting away from predators



Biosecurity

Plastic debris can provide an artificial environment for foreign species to travel around the world's oceans, a process known as 'rafting', colonising new locations.

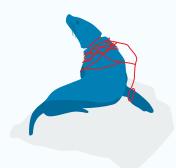
Invasion of foreign species can lead to:

Introduction of new pests and diseases

Reduction and loss of habitat



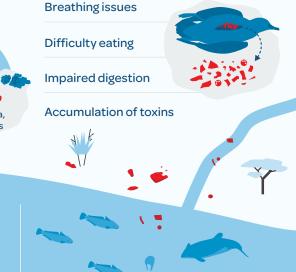
Introduced bacteria, algae and barnacles



Ingestion

Many animals injest plastic debris by mistaking it for natural prey and food. The effects can be devastating, potentially resulting in death.

Ingested plastics can lead to:



Ghostnets

O

Abandoned, discarded or lost fishing equipment does not degrade easily. A single net can entangle, capture and kill many marine species.



Areas of increased risk for our biosecurity



Where plastic is lost into the environment

Physical structures accumulate debris

Currents concentrate floating debris

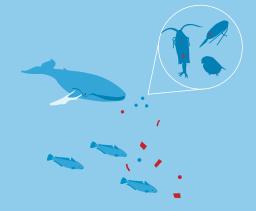
Human health

We are exposed to plastics and the chemicals associated with them through our diet and when breathing household dust, tyre dust and particles from burning plastics.



Food or plastic?

Plastic bags can resemble jellyfish in the water and be mistaken for food. Microplastics are injested by marine animals, ranging from zooplankton to sharks and whales.



ROYAL SOCIETY TE APĀRANGI