









Many New Zealand rivers flow quickly down through steep country, tumbling over waterfalls and churning through narrow rapids. As it travels, moving water shapes the land. Wind, rain, and flowing water slowly wear mountains down and cut gullies and gorges into the land. As water moves over the land, it carries off silt, sand, pebbles, rocks, and even boulders. This process is called "erosion". Glaciers, which are rivers of slow-moving ice,

do the same thing.

During its journey, water often stops for a while in lakes. Lakes may seem large to us, but even the very biggest lakes are small compared with the seas and oceans. Some lakes in New Zealand have been created by dams. We can use the force of the water tumbling down to produce electricity.

As rivers begin to travel through flatter land, they slow down and widen. Some of the soil and rocks that they have collected from the high country begin to sink to the bottom and build up on the banks.

This sort of material on the bottom or edge of a waterway is called "sediment".

Flooding is a natural process that's common in many parts of New Zealand. Areas like Canterbury are huge flood plains. These are very fertile because, time and time again over the centuries, rivers have flooded the land. Each time a river floods, it leaves behind a lot of the rich soil and minerals that it's been carrying.

Eventually, rivers find their way to the sea. River water still carries small amounts of minerals that have been eroded from all the land it has passed through. These minerals make sea water salty. The salts become concentrated in the sea when water evaporates, leaving them behind. And this, of course, is where we came in ...

