



Infiltration

Interception

Influences of the fashion industry on water		
Emissions	Chemicals	Microplastics
O During the production process a lot of CO2 is released. As soon as carbon dioxide gets in touch with water, a reaction takes place. O Carbonic acid is produced, and this molecule dissociates further into a hydrogen ion and a bicarbonate ion. $CO_2 + H_2O <> H_2CO_3$ $H_2CO_3 <> HCO_3 + H$	 O Approximately 50,000 tons of dye are discharged into global water systems from textile industries. O Drinking water is usually contaminated with chemicals and heavy metals such as mercury, lead, nickel, cobalt, cadmium, Sulphur and arsenic. O Due to fertilizers and pesticides, fresh water is infected by nitrates. 	 O One of the big contributors to the plastic problem are synthetic fibers. Microplastics are released every time you wash your synthetic clothes. O Also, in the fashion industry a lot of plastic packaging is used and thrown away after using it once. O They eventually flow into the ocean where marine life is affected directly.
Threats of the fashion industry on water		
 O Plants: Soil with acid water will draw sulfur and nitric compounds into their roots and through their systems. This has a toxic effect on plants and trees. O Species: Are sensitive to acidity in general, and will be lost as the pH declines 	 O Water pollution can result in human health problems, poisoned wildlife, and long-term ecosystem damage. O At least 2 billion people drink water from sources contaminated by chemicals, which affects their health directly. 	 O Fishes wash up dead on a daily base with plastic in their stomach. O Every human body is 'infected' by microplastics. Research shows that plastics is even in the air we breathe. O The impact on long term is unclear due to a lack of research on this topic.