

BIOFOULING in AQUACULTURE has a global cost of
£4,000M – £8,000M

Aquaculture has seen **significant growth** in recent decades.

Inland production
in 2018 was
51.3M TONNES

whilst Marine
production was
30.8M TONNES

This is in contrast to **commercial fishing**,
which has not significantly changed in the period **1986 TO 2018**

with annual production typically between
80 & 90M TONNES

Marine biofilms are a huge issue for aquaculture and can form on:

SURFACES OF FISH
including the surface
of shellfish

NATURAL SURFACES
exposed to organisms that
live on waste food and fish
waste from aquaculture

INFRASTRUCTURE
such as nets, floats,
cages and ropes

The management of these biofilms accounts for
5–10% OF PRODUCTION COSTS