



H2020

TOOLS IMPLEMENTATION EXAMPLE



Where

Pelorus Sound, New Zealand

Issue type(s):

Economic and management.

Specific Issue:

Fluctuations in the per-capita meat yield of Pelorus Sound mussel farms have resulted in substantial economic impacts and distortions within the industry.

Case study:

15. Pelorus Sound, New Zealand

Objective:

Forecasts of mussel meat yield for the Pelorus Sound Greenshell™ mussel industry

Tool(s):

A web-based forecasting tool for mussel meat yield.

How tool(s) has/have been implemented:

Long-term monitoring data on water quality and river flow.

A web-based tool is used to predict mussel yield based on the monitoring data.

Simple plots to show the trend of mussel yield in a year ahead.

Results:

This process provides mussel industry for planning stocking rates based on predicted growing conditions, the longevity and return periods of poor growing conditions,



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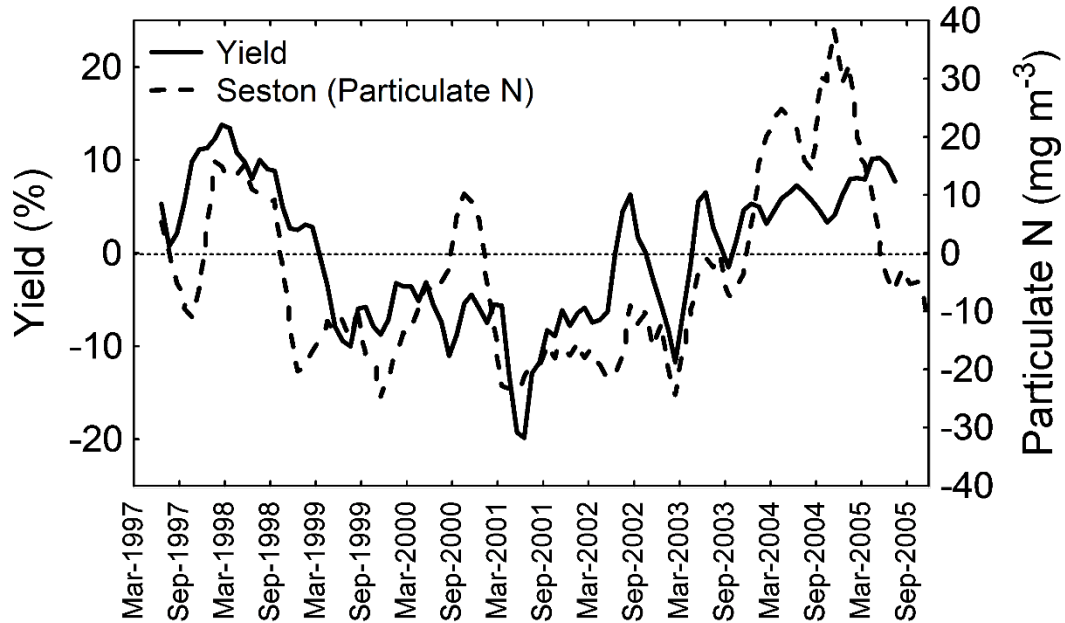


Figure. Variation in mussel meat yield (solid line), and their food (seston: dashed line), between 1997 and 2005, as measured by Sealord Shellfisheries and the Marlborough Sound Shellfish Quality Programme (MSQP) programme. Data are expressed as anomalies from the long-term average.

Links:

AquaSpace D4.2 at aquaspace-h2020.eu on Library/Reports page

Reference

NA

The information in this fact-sheet has been assembled as part of Milestone 20 (WP5) of the AquaSpace project (Ecosystem Approach to making Space for Aquaculture, aquaspace-h2020.eu, which has received funding from the European Union's Horizon 2020 Framework Programme for Research and Innovation under grant agreement n° 633476.

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NIWA (2017) Mussel cultivation in Pelorus Sound.
Implementation factsheet from AquaSpace toolbox. aquaspace-h2020.eu/