

**Weekly Bulletin** 

# Bantry Bay (South and North Chapel)

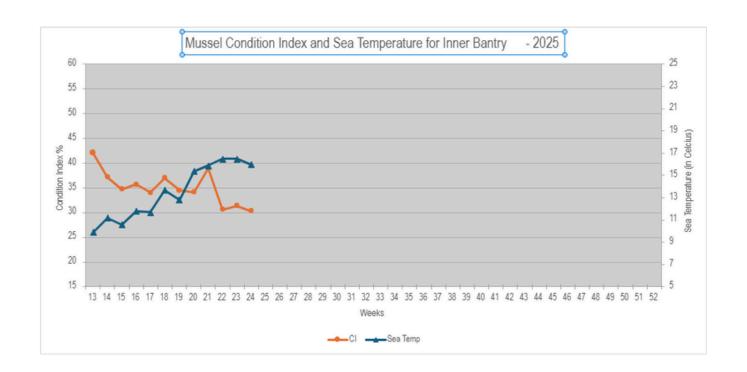
**Southwest Mussel Larvae sampling** 

17th June 2025

Week 24 (8/06/2025 to 15/06/2025)



# **Condition Index (CI) for Inner Bantry**

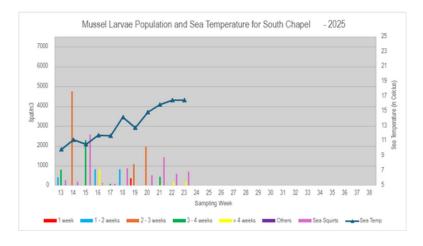


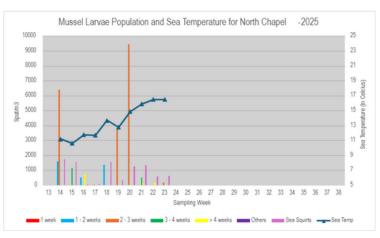




## Larvae population evolution for Bantry (South and North Chapel)

For each sample, mussel larvae are classed by age: 1 week old, 1 to 2 weeks old, 2 to 3 weeks old, 3 to 4 weeks old, over 4 weeks old and others (younger or older).





## Commentary

The Condition Index (CI) in Bantry was stable in Week 24 30.3% (Week 23 31.4 %). The sea temperature was consistent at 16.1°c. **This consistent CI could indicate a previous spawning event.** 

#### **Larvae Population:**

- South Chapel: The sample presented a larvae 1-3 weeks old (2327 spat/m³).
- <u>North Chapel</u>: The sample for North Chapel presented a high number (4071 spat/m³). 85% was 1-3 weeks old, 15% were 5-6 weeks.

The evolution of larvae concentration for Week 24 appears to show a small number of 5-6 week old larvae present in samples. This along with a stable CI may mean a mussel larvae settlement has occurred.





### Sample details:

South Chapel: The concentration of sea squirt has now increased to 1798 individual/m³ from previous weeks of 702, 604 and 1442 individual/m³) The sample also presented C.fusus and Rhizosolenia dominant,.

 North Chapel: Sea squirt levels increased slightly from 561 to 615 /m³. Moderate Phyto biomass -Rhizosolenia/Ceratium sp. dominant. Copepods high. Low levels second bivalve species.

The Phytoplankton sample showed a huge increase in known mussel food species. Less non-food species like Dinoflagellate species were found.

The phytoplankton sample for Week 24 increased to a very high level of 3,429,800 cells/litre. 99% composed of known food source species, a huge reversal from the previous week.

